



Cabling Solutions

for the Broadcast, Professional A/V and Commercial A/V Markets



 **General Cable**

One Company
Connecting the World

One Company Connecting The World

POWERFUL PRESENCE • PRODUCTS PERFORMANCE • PEOPLE

With more than 14,000 associates on six continents, General Cable is a global leader in the development, design, manufacture, marketing and distribution of copper, aluminium and fiber optic wire and cable products for the energy, industrial, specialty and communications markets.

We are one of the largest wire and cable manufacturers in the world and have a significant presence in both established and growing markets.

General Cable serves its customers through a global network of manufacturing facilities with worldwide sales representation and distribution. With a portfolio of more than 100,000 products to meet thousands of diverse applications requirements, we continue to invest in research and development in order to maintain and extend our technology leadership, developing new materials, designing new products, and creating new solutions to meet tomorrow's market challenges.

In every sector and everywhere, we are strongly positioned to help our partners achieve their objectives.

We offer our customers all the strengths and value of a large company, but our people give us the agility and responsiveness of a small one. We can service you globally or locally.



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All information in this catalog is presented solely as a guide to product selection and is believed to be reliable. All printing errors are subject to correction in subsequent releases of this catalog. Although General Cable has taken precautions to ensure the accuracy of the product specifications at the time of publication, the specifications of all products contained herein are subject to change without notice.

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BROADCAST

PRO A/V

COMMERCIAL A/V

RECORDING

PRODUCTION

LIGHTING

STAGING

CONTROL

GEPCO® HISTORY

Since 1981, Gepco has been committed to the development and manufacturing of cable and connectivity products for the broadcast and professional A/V markets. Through continual involvement with our customers and technology, Gepco has developed unique and innovative, solutions-based interconnect products.

Exclusively focused on cabling technology for professional audio and video applications, the Gepco® Brand has grown from a single product to a complete range of professional audio, video and data cabling products with international sales and distribution. Over the past three decades, Gepco has developed many innovations in broadcast and professional A/V cable technology including easy-to-terminate audio cables, the first gas-injected coax for serial digital video applications, tactical network cables and ruggedized camera cable interconnects.

Looking toward the next 30 years as being the leading brand of audio, video and network cabling solutions, Gepco continues to embrace advancing technology to ensure that it consistently provides the professional industry with innovative design, reliability and products with unparalleled quality.

MADE IN THE U.S.A.





INNOVATIVE CABLING TECHNOLOGY

CUSTOMIZED SOLUTIONS

Designed and engineered to meet the unique requirements and formats of professional audio and video applications, Gepco® Brand solutions deliver the performance and reliability needed in leading-edge, studio and live-production applications.

PRECISION ENGINEERED

Gepco Brand cables are manufactured to precision tolerances with premium materials to achieve exacting electrical and mechanical characteristics. Critical specifications such as bandwidth, return loss, flexibility and flame retardancy are designed and specified for each unique interconnect application.

TESTED & VERIFIED

All cable reels are tested and verified to meet or exceed cable specifications and industry standards. Through comprehensive multi-stage testing, Gepco's quality and process control ensures consistent performance in every reel.

PRODUCT EVOLUTION

As formats and technology advance, so does Gepco Brand. From increased bandwidths for the latest HD formats to new applications for fiber and data cables in A/V, Gepco cable has evolved to meet the latest standards and to future-proof for new technology.

ANALOG AUDIO CABLES

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CABLING TECHNOLOGY FOR HIGH-RESOLUTION ANALOG AUDIO INTERCONNECTIONS



Low-Loss Dielectric Compounds

The dielectric material insulates each conductor and affects the high-frequency loss of the cable. Gepco® Brand cables utilize only low-loss gas/polymer, polyethylene or high-quality PVC dielectric compounds.

100% Foil or 95% Braided Shield

In addition to the pair twisting, noise rejection in balanced cables is achieved with a 100% aluminum/Mylar® shield or a tight-angled braid shield. Aluminum/Mylar foil provides additional strength compared to standard foil shields, while a tight-angled braid achieves greater strength, flaccidity and coverage.

Application-Specific Jackets

Jacket compounds are specified for each cable type based upon the application. Each compound type has a unique combination of flexibility, abrasion resistance, flame retardancy and temperature properties.

Precision Pair Twisting & Balancing

The frequency and consistency of the pair twisting determines the noise rejection of the cable. Gepco balanced pairs are twisted to a tight and uniform lay to maximize common-mode noise rejection.

High-Purity Copper

Most cable conductors are made from corrosion-resistant tinned copper or 99.999% oxygen-free copper. These conductor types are easy to solder and maximize conductivity.

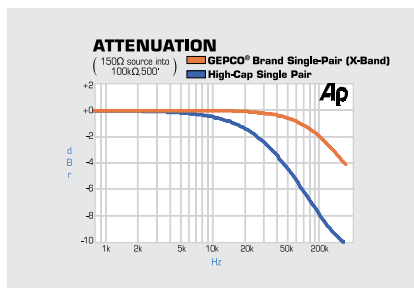
Easy to Terminate

Each cable has time-saving features such as color-coded jackets, optimized conductor stranding, drain wires and easy-to-strip compounds.

Electrical Characteristics & Specifications

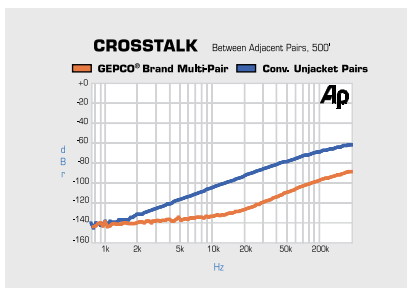
Bandwidth & Low Attenuation

The low-loss dielectric compounds and conductors minimize loss. Compared to other types, Gepco audio cables have less attenuation and greater bandwidth.



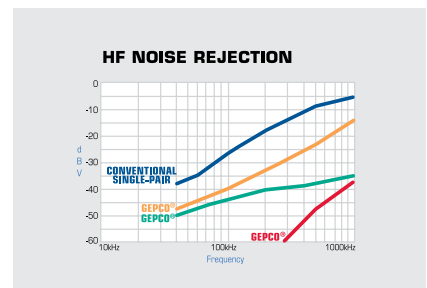
Minimal Crosstalk

Individual pair jackets in multi-pair cable provide greater physical separation and electrical isolation between pairs to improve crosstalk between channels.



Exceptional RF/EMI Noise Rejection

Capacitive balancing, tight and uniform pair-twisting and effective shielding all combine to provide exceptional RF/EMI and common-mode noise rejection.



Mylar is a registered trademark of DUPONT TEIJIN FILMS.

Multi-Pair: GEP-FLEX 22 AWG



The original Gepco® Brand multi-pair cable, the GA618 series multi-pair, was designed for low noise and attenuation and is durable, easy to terminate and UL listed. A high-grade polyethylene dielectric minimizes high-frequency attenuation, while excellent process control and tight pair twisting achieve superior noise rejection. Color coded and alphanumeric printed pairs facilitate easy channel identification, and the riser rated Gepco Brand GEP-FLEX master jacket is both flexible and easy to pull through conduit. The 22 AWG conductors offer the lowest DCR available in any of the Gepco Brand multi-pair products, making the GA618 series ideal for extended-distance runs of mic level signals.

Features & Benefits

- Low Attenuation & Crosstalk
- Flexible
- Easy to Terminate
- Polyethylene Dielectric
- Individually Shielded & Jacketed Pairs
- Color Coded & Alphanumeric Pair Identification
- Additional Overall Foil Shield
- All-Weather GEP-FLEX Master Jacket
- CMR Riser Rated

Applications

- Microphone or Line Level Balanced Analog Audio
- Studio Interconnect, Portable Snakes or Permanent Installation
- Ideal for Extended-Distance Runs

Mechanical Specifications (Series)

| Conductors | Insulation/Color Code | Pair Shield | Pair Drain | Pair Jacket (Type, OD)/Color Code | Overall Shield | Overall Common Drain | Master Jacket | UL Type |
|---------------------------|--|-------------|---------------------------|---|----------------|--|--------------------------|---------|
| 22 AWG (7x30) Stranded TC | PE, 0.010", (0.254 mm) Wall/ Red & Black | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, 0.140" (3.56 mm)/ Base 10 (See Color Code Chart 1, Page 142) | 100% Foil | 16 AWG (19x29) Stranded TC, 20 AWG (7x28) Stranded TC for GA61802GFC | Riser GEP-FLEX TPE, Blue | CMR |

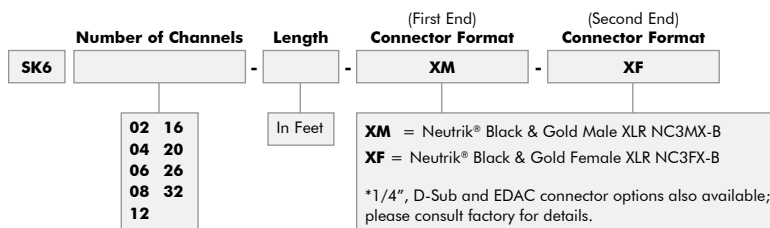
Mechanical Specifications (Individual)

| Part Number | # of Pairs | Nominal OD | Approx. Weight | Part Number | # of Pairs | Nominal OD | Approx. Weight |
|-------------|------------|------------------|-------------------------|-------------|------------|------------------|-------------------------|
| GA61802GFC | 2 | 0.360" (9.1 mm) | 67 lbs/Mft (100 kg/km) | GA61816GFC | 16 | 0.710" (18.0 mm) | 263 lbs/Mft (392 kg/km) |
| GA61804GFC | 4 | 0.400" (10.2 mm) | 95 lbs/Mft (142 kg/km) | GA61820GFC | 20 | 0.800" (20.3 mm) | 315 lbs/Mft (469 kg/km) |
| GA61806GFC | 6 | 0.475" (12.1 mm) | 121 lbs/Mft (180 kg/km) | GA61826GFC | 26 | 0.840" (21.3 mm) | 387 lbs/Mft (577 kg/km) |
| GA61808GFC | 8 | 0.570" (14.5 mm) | 159 lbs/Mft (237 kg/km) | GA61832GFC | 32 | 0.935" (23.7 mm) | 497 lbs/Mft (741 kg/km) |
| GA61812GFC | 12 | 0.635" (16.1 mm) | 217 lbs/Mft (323 kg/km) | | | | |

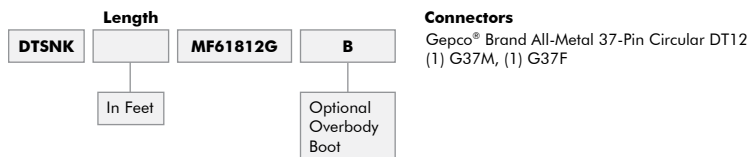
Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR | Overall Common DCR |
|---|------------|------------|---------------------------------------|
| 26 pF/ft Between Conductors, 48 pF/ft Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft | 15.3 Ω/Mft | 4.5 Ω/Mft 9.6 Ω/Mft for GA61802GFC |

Audio Snake



DT12 Snake



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Multi-Pair: GEP-FLEX 24 AWG



A thin-profile version of the Gepco® Brand easy-strip multi-pair, the GA724 series was designed for low noise and attenuation and is durable, easy to terminate and UL listed. A high-grade polyethylene dielectric minimizes high frequency attenuation, while excellent process control and tight pair twisting achieve superior noise rejection. Color coded and alphanumerically printed pairs facilitate easy channel identification, and the GEP-FLEX master jacket is both flexible and easy to pull through conduit. The 24 AWG conductors are easier to terminate while still maintaining low DCR. The GA724 series is ideal for cable assemblies, patchbay wiring or portable snakes.

Features & Benefits

- Low Attenuation & Crosstalk
- Flexible
- Easy to Terminate
- Polyethylene Dielectric
- Easy-Strip Bonded Foil Shield
- Individually Shielded & Jacketed Pairs
- Color Coded & Alphanumeric Pair Identification
- Additional Overall Foil Shield
- All-Weather GEP-FLEX Master Jacket
- CM Rated

Applications

- Microphone or Line Level Balanced Analog Audio
- Studio Interconnect, Portable Snakes or Permanent Installation
- Ideal for Patchbay Wiring & Multi-Pin Cable Assemblies

Mechanical Specifications (Series)

| Conductors | Insulation/Color Code | Pair Shield | Pair Drain | Pair Jacket (Type, OD)/Color Code | Overall Shield | Overall Common Drain | Master Jacket | UL Type |
|---------------------------|---------------------------------------|--------------------|---------------------------|---|----------------|----------------------------|---------------------|---------|
| 24 AWG (7x32) Stranded TC | PE, 0.008" (0.20 mm) Wall/Red & Black | 100% Foil (Bonded) | 24 AWG (7x32) Stranded TC | PVC, 0.115" (2.92 mm)/ Base 10 (See Color Code Chart 1, Page 142) | 100% Foil | 20 AWG (19x32) Stranded TC | GEP-FLEX TPE, Black | CM |

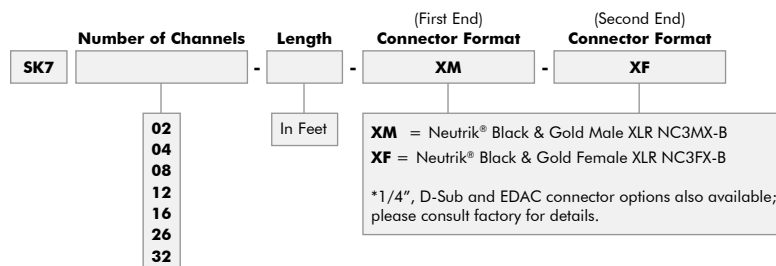
Mechanical Specifications (Individual)

| Part Number | # of Pairs | Nominal OD | Approx. Weight | Part Number | # of Pairs | Nominal OD | Approx. Weight |
|-------------|------------|------------------|-------------------------|-------------|------------|------------------|-------------------------|
| GA72402GFC | 2 | 0.320" (8.13 mm) | 62 lbs/Mft (92 kg/km) | GA72416GFC | 16 | 0.664" (16.9 mm) | 225 lbs/Mft (335 kg/km) |
| GA72404GFC | 4 | 0.405" (10.3 mm) | 88 lbs/Mft (131 kg/km) | GA72426GFC | 26 | 0.830" (21.1 mm) | 363 lbs/Mft (541 kg/km) |
| GA72408GFC | 8 | 0.500" (12.7 mm) | 134 lbs/Mft (200 kg/km) | GA72432GFC | 32 | 0.890" (22.6 mm) | 423 lbs/Mft (630 kg/km) |
| GA72412GFC | 12 | 0.595" (15.1 mm) | 198 lbs/Mft (295 kg/km) | | | | |

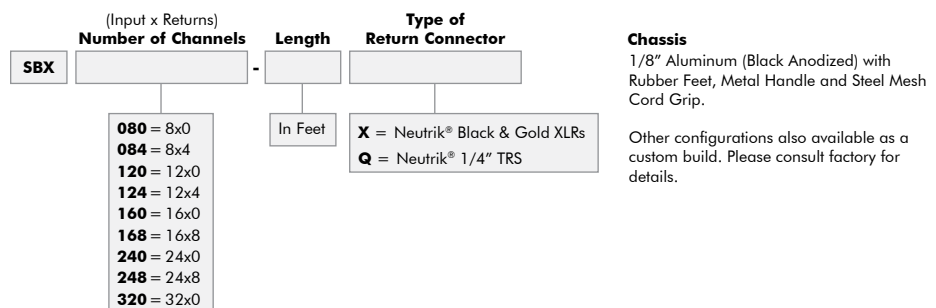
Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR | Overall Common DCR |
|---|------------|------------|--------------------|
| 28 pF/ft Between Conductors, 51 pF/ft Between One Conductor and Other Tied to Shield | 23.8 Ω/Mft | 23.8 Ω/Mft | 8.9 Ω/Mft |

Audio Snake



Stage Box Snake



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Multi-Pair: Thin-Profile 12-Pair



The smallest profile in 12-pair audio, GA72412TP was designed for low noise and attenuation and is durable, easy to terminate and UL listed. A high-grade polyethylene dielectric minimizes high frequency attenuation, while excellent process control and tight pair twisting achieve superior noise rejection. Alphanumerically printed pairs facilitate easy channel identification, and the GEP-FLEX master jacket is both flexible and easy to pull through conduit. The 24 AWG conductors are easier to terminate while still maintaining low DCR. The GA72412TP is ideal for cable assemblies, patchbay wiring or portable snakes.

Features & Benefits

- Low Attenuation & Crosstalk
- Easy to Terminate
- Polyethylene Dielectric
- Individually Shielded & Jacketed Pairs
- Alphanumeric Pair Identification
- Flexible, All-Weather GEP-FLEX Master Jacket
- CM Rated

Applications

- Microphone or Line Level Balanced Analog Audio
- Studio Interconnect, Portable Snakes or Permanent Installation
- Ideal for Patchbay Wiring & Multi-Pin Cable Assemblies

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Conductors | Insulation | Pair Shield | Pair Drain | Pair Jacket (Type, OD)/Color Code | Master Jacket | UL Type | Approx. Weight |
|-----------|------------|------------------|---------------------------|---------------------------------------|--------------------|---------------------------|--|---------------------|---------|-------------------------|
| GA72412TP | 12 | 0.510" (13.0 mm) | 24 AWG (7x32) Stranded TC | PE, 0.010" (0.25 mm) Wall/Red & Black | 100% Foil (Bonded) | 24 AWG (7x32) Stranded TC | PVC, 0.105"/Black, Alphanumeric Printed Channels | GEP-FLEX TPE, Black | CM | 110 lbs/Mft (164 kg/km) |

Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR | Overall Common DCR |
|---|------------|------------|--------------------|
| 25 pF/ft Between Conductors, 45 pF/ft Between One Conductor and Other Tied to Shield | 23.8 Ω/Mft | 23.8 Ω/Mft | 8.9 Ω/Mft |

Multi-Pair: Direct Burial



Designed for permanent underground installation, the Gepco® Brand direct burial multi-pair features low loss, low noise and color coded pair jackets just like the standard GA618 series. Unique to the PEF direct burial version is a rugged polyethylene jacket and water blocking tape that is wrapped around the cable core. This construction is difficult to puncture and protects the core from moisture should the cable be accidentally damaged.

Features & Benefits

- Low Attenuation & Crosstalk
- Polyethylene Dielectric
- Individually Shielded & Jacketed Pairs
- Color Coded & Alphanumeric Pair Identification
- Additional Overall Foil Shield
- Polyethylene Jacket
- Water Blocking Tape

Applications

- Microphone or Line Level Balanced Analog Audio
- Direct Burial Permanent Installation

Mechanical Specifications (Series)

| Conductors | Insulation/Color Code | Pair Shield | Pair Drain | Pair Jacket (Type, OD)/Color Code | Overall Shield | Overall Common Drain | Master Jacket |
|---------------------------|---------------------------------------|-------------|---------------------------|--|----------------|----------------------------|-----------------------------|
| 22 AWG (7x30) Stranded TC | PE, 0.010" (0.25 mm) Wall/Red & Black | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, 0.140" (3.56 mm)/Base 10 (See Color Code Chart 1, Page 142) | 100% Foil | 16 AWG (19x29) Stranded TC | PE with Water Blocking Tape |

Mechanical Specifications (Individual)

| Part Number | # of Pairs | Nominal OD | Approx. Weight |
|-------------|------------|------------------|-------------------------|
| GA61806PEF | 6 | 0.475" (12.1 mm) | 118 lbs/Mft (176 kg/km) |
| GA61812PEF | 12 | 0.635" (16.1 mm) | 220 lbs/Mft (328 kg/km) |

Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR | Overall Common DCR |
|---|------------|------------|--------------------|
| 26 pF/ft Between Conductors, 48 pF/ft Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft | 15.3 Ω/Mft | 4.5 Ω/Mft |

Multi-Pair: X-Band



The X-Band series is an ultra-flexible, sonically transparent, low-noise and durable balanced audio cable for use in critical recording studio facilities or live sound venues. X-Band multi-pair is both extremely flexible and flaccid, yet maintains a high degree of durability. Each oxygen-free copper conductor is insulated with a unique low k constant, foam polypropylene dielectric that lowers the capacitance and extends the bandwidth of the cable. Low noise and crosstalk is achieved through exacting pair twisting, 95% braid shielding and individual pair jackets. In addition, X-Band also remains easy to prep and terminate. The insulation and jacket are both easy to score, break and strip; the tight-weave braided shield is easy to trim and terminate via the drain wire. Individual pairs can be easily identified by the alphanumeric print and color coded stripe, yet maintain a more neutral cosmetic appearance in high visibility installations.

Features & Benefits

- Ultra-Flexible
- Oxygen-Free, Finely Stranded Conductors
- High-Bandwidth Dielectric
- Braided Pair Shields with Drain Wire
- Low Crosstalk & Superior Noise Rejection
- Easy to Terminate
- Pair Jackets with Alphanumeric Print & Color Coded Stripe
- G-Flex Master Jacket

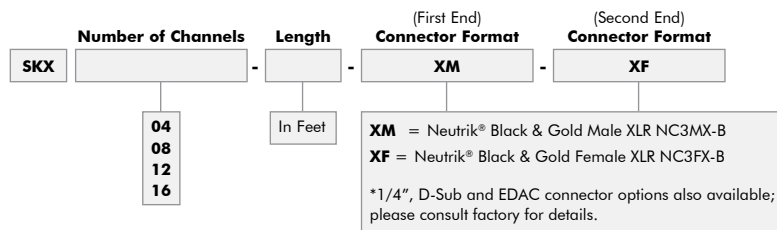
Applications

- Microphone or Line Level Balanced Analog Audio
- Studio Interconnect or Portable Snakes

| Mechanical Specifications (Series) | | | | | |
|---|---|--------------|----------------------------------|--|--|
| Conductors | Insulation/Color Code | Pair Shield | Pair Drain | Pair Jacket (Type, OD)/Color Code | Master Jacket |
| 24 AWG (40x40) Stranded Oxygen-Free Bare Copper | Foam Polypropylene, 0.012" (0.30 mm) Wall/ One White, One Black | 95% TC Braid | 24 AWG (41x40) Stranded TC | Flexible Matte PVC 0.145" (3.68 mm)/ Black with Base 10 Resistor Color Coded Stripe Alphanumeric Print Inverted Every Inch | Ultra-Flexible G-Flex PVC, Black |

| Mechanical Specifications (Individual) | | | | |
|--|------------|------------------|-------------------------|--|
| Part Number | # of Pairs | Nominal OD | Approx. Weight | |
| XB404 | 4 | 0.490" (12.4 mm) | 115 lbs/Mft (171 kg/km) | |
| XB408 | 8 | 0.580" (14.7 mm) | 176 lbs/Mft (262 kg/km) | |
| XB412 | 12 | 0.738" (18.7 mm) | 270 lbs/Mft (402 kg/km) | |
| XB416 | 16 | 0.785" (19.9 mm) | 320 lbs/Mft (477 kg/km) | |

| Electrical Specifications | | |
|---|------------|--------------------|
| Capacitance | Cond. DCR | Shield & Drain DCR |
| 17.5 pF/ft Between Conductors, 31 pF/ft Between One Conductor and Other Tied to Shield | 27.5 Ω/Mft | 6 Ω/Mft |



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Multi-Pair: Heavy-Duty 12-Channel



For use in hostile environments, the DT61812 12-channel multi-pair utilizes an extra-thick, extra-tough polyurethane compound for its outer jacket, making it extremely weather-resistant and difficult to puncture. Each pair is individually shielded, isolated and color coded for channel identification.

Features & Benefits

- Extremely Durable & Rugged
- Low Attenuation
- Polyethylene Dielectric
- Individual Pair Shields
- Polyurethane Jacket

Applications

- Microphone or Line Level Balanced Analog Audio
- DT12 Remote Snakes
- Hostile Environments

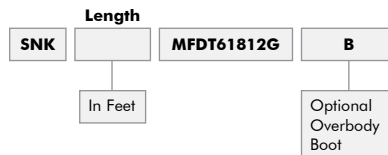
Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Conductors | Insulation | Color Code | Pair Shield | Pair Drain | Master Jacket | Approx. Weight |
|---------|------------|---------------------|----------------------------------|------------------------------|--|---|----------------------------------|---------------|----------------------------|
| DT61812 | 12 | 0.505" (12.8 mm) | 22 AWG (19x34) Stranded TC | PE, 0.010" (2.54 mm) Wall | Varies for Each Pair, (See Color Code Chart 2, Page 142) | 100% Foil, Mylar® Side Out (Pairs Are Isolated) | 22 AWG (19x34) Stranded TC | PU, Black | 160 lbs/Mft (238 kg/km) |

Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR |
|---|------------|------------|
| 26 pF/ft Between Conductors, 48 pF/ft Between One Conductor and Other Tied to Shield | 14.3 Ω/Mft | 14.3 Ω/Mft |

DT12 Snake



Connectors

Gepco® Brand All-Metal 37-Pin Circular DT12
(1) G37M, (1) G37F

DT12 Breakout Box



The Gepco® Brand DT12 Breakout Box is a 12-channel audio breakout from a DT12 multi-pin connector to 12 Neutrik® panel mount XLRs in a heavy-gauge 1/8" thick extruded aluminum chassis. A recessed top-plate design protects connectors, while the modular construction and internal slots allow for custom options such as transformer isolated splits. This breakout box is available in a standard 12-channel configuration or with multi-pin and/or XLR parallel passive splits. The Gepco Brand DT12 multi-pin connector features a stainless steel male housing, mil-spec gold plated contacts, and a scalloped insulator that is crack-proof and prevents rotation.

Features & Benefits

- Neutrik XLRs
- Gold-Plated Contacts
- FK37-DT12 Pinout Compatible
- Passive Split Options
- 1/8" Anodized Aluminum Chassis
- Modular & Customizable

Applications

- DT12 Snake Breakout from Multi-Pin to XLR Connectors
- Mic or Line Level

| Assembly Specifications | | | | | |
|--|---------------|--|---|--|---|
| Part # | # of Channels | Connectors | Chassis Dimensions | Chassis Material | Comments |
| Standard DT12 Breakout Box <i>Standard Single-Pair: Easy Strip</i> | | | | | |
| DTBXS912FNMNG | 12 | (12) Neutrik® NC3FD-L-1-B Female XLRs (1) Gepco Male G37MP DT12 Multi-pin Connector | 4.5" High x 5.25" Wide x 9" Long (11.4 cm High x 13.3 cm Wide x 22.9 cm Long) | 1/8" Extruded Aluminum, Black Anodized | Wired "straight through" from XLRs to DT12. Ground lifts or transformer isolation available as a custom option. |
| Feed Through DT12 Breakout Box <i>Male Multi-Pin to 12 Female XLRs with Multi-Pin Feedthrough</i> | | | | | |
| DTBXS912FNMFG | 12 | (12) Neutrik® NC3FD-L-1-B Female XLRs (1) Gepco Male G37MP DT12 Multi-pin Connector (1) Gepco Female G37FP DT12 Multi-pin Connector | 4.5" High x 5.25" Wide x 9" Long (11.4 cm High x 13.3 cm Wide x 22.9 cm Long) | 1/8" Extruded Aluminum, Black Anodized | Wired "straight through" from XLRs to DT12. Ground lifts or transformer isolation available as a custom option. |
| Feed Through/XLR Split DT12 Breakout Box <i>Male Multi-Pin to 12 Female XLRs with Male XLR-Split and Multi-Pin Feedthrough</i> | | | | | |
| DTBXS1624FYMFG | 12 | (12) Neutrik® NC3FD-L-1-B Female XLRs (12) Neutrik® NC3MD-L-1-B Male XLRs (1) Gepco Male G37MP DT12 Multi-pin Connector (1) Gepco Female G37FP DT12 Multi-pin Connector | 4.5" High x 5.25" Wide x 16" Long (11.4 cm High x 13.3 cm Wide x 40.6 cm Long) | 1/8" Extruded Aluminum, Black Anodized | Wired "straight through" from XLRs to DT12. Ground lifts or transformer isolation available as a custom option. |

DT12 Snake

See pages 6 and 10 for DT12 Snake Assemblies.



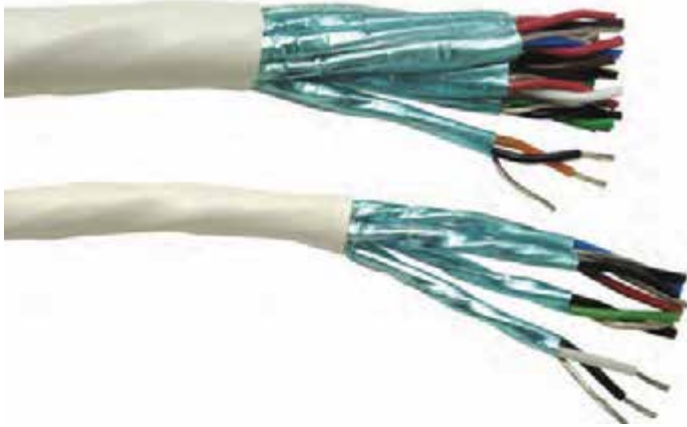
DT12 Fanout

See page 21 for DT12 Fanout Assemblies.



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Multi-Pair: Plenum



Features & Benefits

- Low Attenuation
- Halar® Dielectric
- Individual Pair Shields
- Plenum PVC Master Jacket
- CMP Plenum Rated

Applications

- Microphone or Line Level Balanced Analog Audio
- Permanent Installation in Plenum Air Spaces

Designed for installation in plenum air spaces, the Gepco® Brand plenum multi-pair audio cable features an outer plenum PVC jacket that is more flexible and easier to strip than other high-temperature plenum compounds. By utilizing Halar® for the insulating dielectric, which has a lower constant than standard plenum PVC, the capacitance of the plenum multi-pair series is similar to the non-plenum GA series. Pairs are individually shielded and isolated, and the conductors of each pair are color coded for channel identification.

Mechanical Specifications (Series)

| Conductors | Insulation | Insulation Color Code | Pair Shield | Pair Drain | Master Jacket | UL Type |
|---------------------------|--------------------------------|--|---|---------------------------|-------------------|---------|
| 22 AWG (7x30) Stranded TC | Halar®, 0.010" (0.254 mm) Wall | Varies for Each Pair, (See Color Code Chart 2, Page 142) | 100% Foil, Mylar® Side Out (Pairs Are Isolated) | 22 AWG (7x30) Stranded TC | Plenum PVC, White | CMP |

Mechanical Specifications (Individual)

| Part Number | # of Pairs | Nominal OD | Approx. Weight |
|-------------|------------|------------------|-------------------------|
| 6604HS | 4 | 0.285" (7.24 mm) | 47 lbs/Mft (70 kg/km) |
| 6606HS | 6 | 0.345" (8.76 mm) | 72 lbs/Mft (107 kg/km) |
| 6608HS | 8 | 0.385" (9.78 mm) | 98 lbs/Mft (146 kg/km) |
| 6612HS | 12 | 0.475" (12.1 mm) | 145 lbs/Mft (216 kg/km) |

Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR |
|---|------------|------------|
| 28 pF/ft Between Conductors, 52 pF/ft Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft | 15.3 Ω/Mft |

Two-Pair Shielded



Ideal for general purpose data or machine control applications, the 6600 series features two shielded twisted-pairs under a single round jacket with a reduced overall cable diameter. Easy to terminate, each pair is individually shielded, but electrically in common, and shares a single finned-copper drain wire. Insulation in the 6600 is a high-grade polyethylene that provides both improved electrical and temperature characteristics compared to PVC.

Features & Benefits

- Standard Capacitance
- Polyethylene or Halar® Dielectric
- Individual Pair Shields
- Common Drain Wire
- CM or Plenum CMP Versions

Applications

- Data or Two-Pair Audio
- Machine Control

| Mechanical Specifications (Individual) | | | | | | | | | |
|--|--------------------------------|------------------|---------------------------|--|-----------------------|---------------------------|-----------------------|---------|-----------------------|
| Part # | # of Pairs | Nominal OD | Conductors | Insulation/Color Code | Shield | Common Drain Wire | Jacket (Type, Colors) | UL Type | Approx. Weight |
| 6600 | 2 | 0.173" (4.39 mm) | 22 AWG (7x30) Stranded TC | PE, 0.008" (0.203 mm) Wall/ Red & Black, White & Green | 100% Foil (Each Pair) | 24 AWG (7x32) Stranded TC | PVC, Black or Gray | CM | 21 lbs/Mft (31 kg/km) |
| | Audio/Control Two-Pair | | | | | | | | |
| 6600HS | 2 | 0.178" (4.52 mm) | 22 AWG (7x30) Stranded TC | Halar®, 0.011" (0.279 mm) Wall/ Red & Black, White & Green | 100% Foil (Each Pair) | 24 AWG (7x32) Stranded TC | Plenum PVC, White | CMP | 22 lbs/Mft (33 kg/km) |
| | Audio/Control Two-Pair: Plenum | | | | | | | | |

| Electrical Specifications | | | |
|---------------------------|--|------------|------------|
| Part # | Capacitance | Cond. DCR | Drain DCR |
| 6600 | 29 pF/ft Between Conductors, 53 pF/ft Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft | 23.8 Ω/Mft |
| 6600HS | 27 pF/ft Between Conductors, 50 pF/ft Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft | 23.8 Ω/Mft |

High-Grade Line Level Audio



Gepco® Brand high-grade line level audio cable is an economical option for permanent installation in conduit, walls or ceilings. The conductive elements consist of stranded, bare copper conductors that are insulated with a PVC insulation compound. For added noise rejection and suppression, the conductors are shielded with a durable 100% foil/Mylar® and tinned copper drain wire. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit.

Features & Benefits

- Economical Construction
- Bare Copper Conductors
- PVC Insulation
- Foil Shield with Drain Wire
- 12 Through 22 AWG Versions
- UL Rated

Applications

- General Purpose Audio
- Control

| Mechanical Specifications | | | | | | | | | |
|---------------------------|--|------------------|---------------------------|---|-----------|---------------------------|--------------------------------|---------|-----------------------|
| Part # | # of Cond. | Nominal OD | Conductor | Insulation/Color Code | Shield | Drain Wire | Jacket (Type, Colors) | UL Type | Approx. Weight |
| SSS202R | 2 | 0.142" (3.61 mm) | 20 (7x28) AWG Stranded BC | PVC, 0.007" (0.18 mm) Wall/ Black & Red | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Gray | CMR | 15 lbs/Mft (22 kg/km) |
| | 20 AWG High-Grade Line Level Audio Cable: Riser | | | | | | | | |
| SSS202P | 2 | 0.139" (3.53 mm) | 20 (7x28) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black & Red | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Natural (Gray by Request) | CMR | 20 lbs/Mft (30 kg/km) |
| | 20 AWG High-Grade Line Level Audio Cable: Plenum | | | | | | | | |
| SSS222R | 2 | 0.125" (3.18 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black & Red | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Gray | CMR | 11 lbs/Mft (16 kg/km) |
| | 22 AWG High-Grade Line Level Audio Cable: Riser | | | | | | | | |
| SSS222P | 2 | 0.128" (3.25 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black & Red | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Natural (Gray by Request) | CMR | 12 lbs/Mft (18 kg/km) |
| | 22 AWG High-Grade Line Level Audio Cable: Plenum | | | | | | | | |

| Electrical Specifications | | |
|---------------------------|--|------------|
| Part # | Capacitance | Cond. DCR |
| SSS202R | 53.2 pF/ft Between Conductors, 95.7 pF/ft Between One Conductor and Other Tied to Shield | 10.5 Ω/Mft |
| SSS202P | 50.9 pF/ft Between Conductors, 91.6 pF/ft Between One Conductor and Other Tied to Shield | 10.5 Ω/Mft |
| SSS222R | 44.6 pF/ft Between Conductors, 80.2 pF/ft Between One Conductor and Other Tied to Shield | 16.9 Ω/Mft |
| SSS222P | 45.6 pF/ft Between Conductors, 82.0 pF/ft Between One Conductor and Other Tied to Shield | 16.9 Ω/Mft |

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Single- & Dual-Pair: 22 AWG



The industry-standard for balanced audio cable for permanent installation, the Gepco® Brand 22 AWG single- and dual-pair audio cables feature stranded tinned-copper conductors that are easy to solder or punch-down. The non-plenum products feature a high-grade polyethylene dielectric that is used to minimize high-frequency attenuation. Excellent process control and tight pair twisting achieve superior noise rejection. The 22 AWG conductors offer the lowest DCR available in any Gepco Brand single-pair product, and the foil shield with same gauge drain wire facilitates quick shield termination. The Gepco Brand 22 AWG single- and dual-pair audio cables are ideal for punch-down, rack wiring and extended-distance runs of mic level signals.

Features & Benefits

- Low Attenuation
- Low Crosstalk
- Easy to Terminate
- Polyethylene or Halar® Dielectric
- Easy-Strip, Bonded Foil Shield (EZ Versions)
- CMR Riser or CMP Plenum Rated

Applications

- Microphone or Line Level Balanced Analog Audio
- Patchbay, Rack or Console Permanent Installation Wiring
- Ideal for Extended-Distance Runs

Mechanical Specifications (Series)

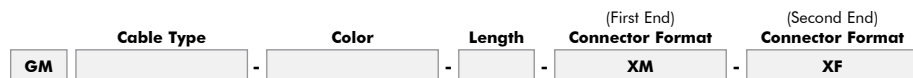
| Conductors | Drain Wire |
|---------------------------|---------------------------|
| 22 AWG (7x30) Stranded TC | 22 AWG (7x30) Stranded TC |

Mechanical Specifications (Individual)

| Part # | # of Pairs | Nominal OD | Insulation/Color Code | Shield | Jacket | Jacket Colors | UL Type | Approx. Weight |
|---|------------|-------------------------------------|--|--------------------|--------------|---|----------|-----------------------|
| 61801EZ | 1 | 0.138" (3.51 mm) | PE, 0.008" (0.203 mm) Wall/ Red & Black | 100% Foil (Bonded) | PVC | Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White | CMR | 15 lbs/Mft (22 kg/km) |
| <i>Standard Single-Pair: Easy Strip</i> | | | | | | | | |
| D61801EZGF | 2 | 0.140" x 0.290" (3.56 mm x 7.37 mm) | PE, 0.008" (0.203 mm) Wall/ Red & Black | 100% Foil (Bonded) | GEP-FLEX TPE | Blue with Red Stripe | — | 27 lbs/Mft (40 kg/km) |
| <i>Flexible Dual-Pair: Easy Strip</i> | | | | | | | | |
| 61801HS | 1 | 0.134" (3.40 mm) | Halar®, 0.010" (0.254 mm) Wall/ Red & Black | 100% Foil | Plenum PVC | White | CMP 75°C | 13 lbs/Mft (19 kg/km) |
| <i>Plenum Single-Pair</i> | | | | | | | | |

Electrical Specifications

| Part # | Capacitance | Cond. DCR | Drain DCR |
|----------------------|---|------------|------------|
| 61801 | 26 pF/ft Between Conductors, 48 pF/ft Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft | 15.3 Ω/Mft |
| 61801EZ / D61801EZGF | 34 pF/ft Between Conductors, 62 pF/ft Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft | 15.3 Ω/Mft |
| 61801HS | 28 pF/ft Between Conductors, 52 pF/ft Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft | 15.3 Ω/Mft |



C17 = 61801EZ
C17P = 61801HS
T4 = D61801EZGF

*No color designation necessary for 61801HS (White) and D61801EZGF (Blue with Red Stripe).

0 = Black
1 = Brown
2 = Red
3 = Orange
4 = Yellow
5 = Green
6 = Blue
7 = Violet
8 = Gray
9 = White

XM = Neutrik® Black & Gold Male XLR NC3MX-B
XF = Neutrik® Black & Gold Female XLR NC3FX-B

*1/4", D-Sub and EDAC connector options also available; please consult factory for details.

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Single- & Dual-Pair: 24 AWG



Features & Benefits

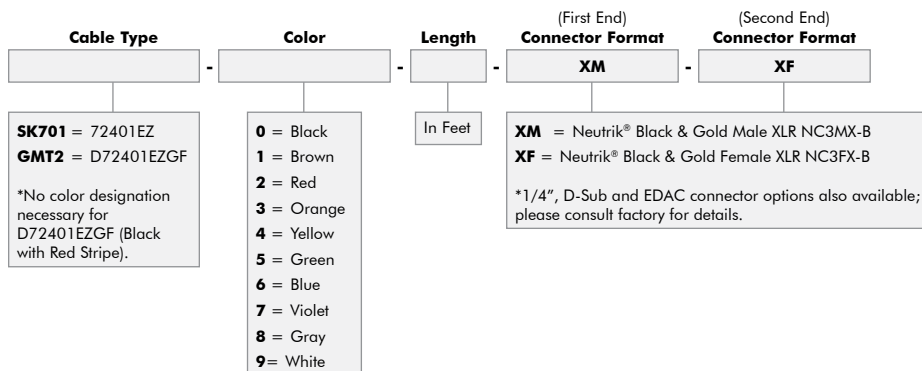
- Thin Profile
- Low Attenuation
- Low Crosstalk
- Easy to Terminate
- Polyethylene Dielectric
- Easy-Strip, Bonded Foil Shield
- CM Rated

Applications

- Microphone or Line Level Balanced Analog Audio
- Patchbay, Rack or Console Permanent Installation Wiring

For applications that require a reduced diameter and/or weight, Gepco® Brand 24 AWG thin profile, balanced audio cables are ideal for patchbay wiring or mobile production trucks. Stranded tinned-copper conductors are easy to solder or punch-down. A high-quality polyethylene insulation minimizes cable capacitance in conjunction with excellent process control and tight twisting for superior noise rejection. A foil shield with same gauge drain wire facilitates quick shield termination, and the 24 AWG conductors are easier to terminate while still maintaining low DCR.

| Mechanical Specifications (Series) | | | | | | | | |
|---|------------|-------------------------------------|---|--------------------|---------------------------|---|---------|-----------------------|
| Conductors | | | | | Drain Wire | | | |
| 24 AWG (7x32) Stranded TC | | | | | 24 AWG (7x32) Stranded TC | | | |
| Mechanical Specifications (Individual) | | | | | | | | |
| Part # | # of Pairs | Nominal OD | Insulation/Color Code | Shield | Jacket | Jacket Colors | UL Type | Approx. Weight |
| 72401EZ | 1 | 0.115" (2.92 mm) | PE, 0.008" (0.203 mm) Wall/ Red & Black | 100% Foil (Bonded) | PVC | Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White | CM | 10 lbs/Mft (15 kg/km) |
| <i>Thin Profile Single-Pair: Easy Strip</i> | | | | | | | | |
| D72401EZGF | 2 | 0.130" x 0.265" (3.30 mm x 6.73 mm) | PE, 0.008" (0.203 mm) Wall/ Red & Black | 100% Foil (Bonded) | GEP-FLEX TPE | Black with Red Stripe | CM | 22 lbs/Mft (33 kg/km) |
| <i>Thin Profile Dual-Pair: Extra Flexible & Easy Strip</i> | | | | | | | | |
| Electrical Specifications | | | | | | | | |
| Capacitance | | | Cond. DCR | | | Drain DCR | | |
| 28 pF/ft Between Conductors, 51 pF/ft Between One Conductor and Other Tied to Shield | | | 23.8 Ω/Mft | | | 23.8 Ω/Mft | | |



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X-Band Single-Pair



The Gepco® Brand X-Band single-pair series is an ultra-flexible, sonically transparent, low-noise and durable balanced audio cable for use in critical recording studio facilities or live sound venues. X-Band single-pair is both extremely flexible and flaccid, yet maintains a high degree of durability. Each oxygen-free copper conductor is insulated with a unique low k constant, foam polypropylene dielectric that lowers the capacitance and extends the bandwidth of the cable. Low noise is achieved through tight and precision pair twisting with a durable 95% braid shield or dual (foil and braid) shield. In addition, X-Band remains easy to prep and terminate. Both the insulation and jacket are easy to score, break and strip; the tight weave braided shield is easy to trim and terminate via the drain wire.

Features & Benefits

- Ultra-Flexible
- Oxygen-Free, Finely Stranded Conductors
- High-Bandwidth Dielectric
- Braid Shield or Dual (Foil & Braid) Shield
- Superior Noise Rejection
- Easy to Terminate
- Drain Wire for Quick Ground Termination

Applications

- Microphone or Line Level Balanced Analog Audio
- Studio Interconnect, Rack or Patchbay Wiring

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Conductors | Insulation/ Color Code | Shield | Drain Wire | Jacket | Approx. Weight |
|---------|------------|---------------------|---|---|----------------------------|-------------------------------|-----------------------|--------------------------|
| XB401 | 1 | 0.145" (3.68 mm) | 24 AWG (40x40) Stranded Oxygen-Free BC | Foam Polypropylene, 0.012" (0.305 mm) Wall/ One White, One Black | 95% TC Braid | 24 AWG (41x40) Stranded TC | Flexible Matte PVC | 15 lbs/Mft (22 kg/km) |
| | | | | | | | | |
| XB401FB | 1 | 0.148" (3.76 mm) | 24 AWG (40x40) Stranded Oxygen-Free BC | Foam Polypropylene, 0.012" (0.305 mm) Wall/ One White, One Black | 100% Foil, 95% TC Braid | 24 AWG (41x40) Stranded TC | Flexible Matte PVC | 15 lbs/Mft (22 kg/km) |
| | | | | | | | | |

Electrical Specifications

| Capacitance | Cond. DCR | Shield & Drain DCR |
|---|------------|--------------------|
| 17.5 pF/ft Between Conductors, 31 pF/ft Between One Conductor and Other Tied to Shield | 27.5 Ω/Mft | 6 Ω/Mft |

Guitar/Instrument: Low Capacitance



An extra-flexible, low-noise and low-loss guitar or unbalanced instrument cable, the GLC20 features a large 20 AWG conductor with a 50 ohm polyethylene dielectric which together lower both the DC and capacitive loss of the cable. As a result, pickup loading is minimized and high frequency attenuation, which can dull the signal and transient response, is significantly reduced. For RF/EMI noise rejection, the GLC20 has a 95% copper braid with a semi-conductive PVC layer that minimizes triboelectric handling noise. The outer jacket is extruded from a matte PVC compound that is both extra-flexible and rugged.

Features & Benefits

- Low Attenuation
- Extra Flexible
- Heavy-Gauge Conductor
- Polyethylene Dielectric
- Noise Reducing PVC
- Full-Copper Braid Shield
- Matte PVC Flexible Master Jacket

Applications

Line or Instrument Level Unbalanced Analog Audio

| Mechanical Specifications | | | | | | | |
|---------------------------|------------|---------------------|-------------------------------|------------------------------|--------------------------------------|------------------------------|--------------------------|
| Part # | # of Cond. | Nominal OD | Conductors | Insulation | Shield | Jacket (Type, Colors) | Approx. Weight |
| GLC20 | 1 | 0.265" (6.73 mm) | 20 AWG (41x36) Stranded BC | PE, 0.040" (1.02 mm) Wall | Semi-Conductive PVC, 95% BC Braid | Flexible Matte PVC, Black | 43 lbs/Mft (64 kg/km) |

| Electrical Specifications | | |
|---------------------------|-------------|------------|
| Impedance | Capacitance | Cond. DCR |
| 50 Ω | 32 pF/ft | 10.0 Ω/Mft |

Guitar/Instrument: X-Band Dual Shield



The first unbalanced cable in the X-Band series, the XB20UB offers users X-Band performance in guitar and instrument applications. The XB20UB features a 20 AWG, oxygen-free copper conductor for maximum conductivity and corrosion resistance. To provide exceptional EMI/RF rejection and low triboelectric handling noise, the XB20UB has two densely stranded 95% copper braid shields combined with a semi-conductive PVC layer. As with all X-Band cables, the XB20UB has a data-grade, foam dielectric that significantly reduces the capacitance of the cable. The outer jacket is constructed from Gepco® Brand G-Flex PVC compound that is exceptionally flexible, easy to strip and abrasion-resistant.

Features & Benefits

- Ultra-Flexible
- Oxygen-Free, Heavy-Gauge Conductor
- 95% Double-Braid Shield
- Noise Reducing PVC
- Low Capacitance
- Superior Noise Rejection
- Easy to Terminate

Applications

Line or Instrument Level Unbalanced Analog Audio

| Mechanical Specifications | | | | | | | |
|---------------------------|------------|---------------------|--------------------------------|------------------------------------|---|------------------------------|--------------------------|
| Part # | # of Cond. | Nominal OD | Conductors | Insulation | Shield | Jacket (Type, Colors) | Approx. Weight |
| XB20UB | 1 | 0.228" (5.79 mm) | 20 AWG (41x36) Stranded OFC | Foam PE, 0.032" (0.813 mm) Wall | Semi-Conductive PVC, Double 95% TC Braid | Flexible Matte PVC, Black | 41 lbs/Mft (61 kg/km) |

| Electrical Specifications | | |
|---------------------------|-------------|-------------|
| Impedance | Capacitance | Cond. DCR |
| 50 Ω | 22.3 pF/ft | 10.37 Ω/Mft |

Guitar assemblies available upon request.

Microphone: Heavy-Duty



The Gepco® Brand heavy-duty microphone cable features an extra-tough jacket and oversized heavy-duty construction for exceptional ruggedness and durability. A tight-angled, full-coverage braid, thick insulation wall and large 20 AWG conductors give the M1042 improved flex-life, while providing excellent noise rejection and low attenuation. Mutual capacitance is lower than typical microphone cable to reduce the high frequency roll-off that occurs in long runs of mic level signals. The M1042 is ideal for sound reinforcement and remote production in hostile environments.

Features & Benefits

- Durable & Rugged, yet Flexible
- Extra-Low Attenuation
- Heavy-Gauge Conductors
- Polyethylene Dielectric
- Full-Copper Braid Shield
- Drain Wire for Quick Shield Termination
- All-Weather TPE Master Jacket

Applications

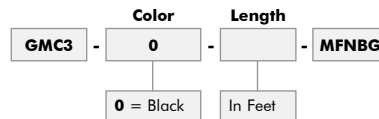
- Microphone or Line Level Balanced Analog Audio
- Portable Microphone Cables
- Hostile Environments
- Ideal for Extended-Distance Runs

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Conductors | Insulation/ Color Code | Shield | Drain Wire | Jacket (Type, Colors) | Approx. Weight |
|--------|------------|------------------|----------------------------|---|--------------|----------------------------|-----------------------|-----------------------|
| M1042 | 1 | 0.255" (6.48 mm) | 20 AWG (26x34) Stranded TC | PE, 0.020" (0.508 mm) Wall/ Red & Black | 95% TC Braid | 22 AWG (19x34) Stranded TC | TPE, Black | 40 lbs/Mft (60 kg/km) |

Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR |
|---|------------|------------|
| 20 pF/ft Between Conductors, 37 pF/ft Between One Conductor and Other Tied to Shield | 10.1 Ω/Mft | 16.1 Ω/Mft |



Connectors

Neutrik® Black & Gold Male XLRs, Male NC3MX-B and Female NC3FX-B

Microphone: X-Band



The Gepco® Brand extra-flexible, high-bandwidth X-Band microphone cable series has been specifically designed for use in critical recording studio facilities or live sound venues. The X-Band microphone series features an extended frequency response and exceptional RF/EMI noise rejection. The bandwidth and rejection characteristics are achieved through precision pair twisting and a video-grade foam dielectric that significantly reduces the capacitance. Conductors are finely stranded, oxygen-free copper to maximize conductivity and protect against corrosion. For shielding and additional noise rejection, each pair is shielded with a dense 95% TC braid or dual braid.

Features & Benefits

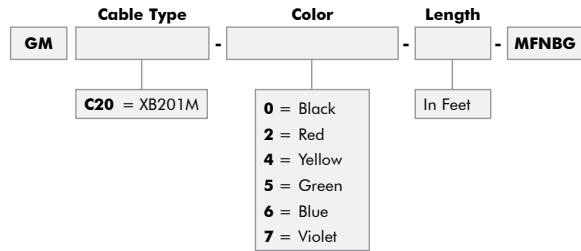
- Extra Flexible
- Wide Bandwidth
- 22 AWG Oxygen-Free Conductors
- Data-Grade, Gas/Polymer Dielectric
- Dense 95% Copper Braid(s)
- Exceptional RF/EMI & Common-Mode Noise Rejection

Applications

- Microphone or Line Level Balanced Analog Audio
- High-Bandwidth Audio Interconnects
- Portable Stage or Studio Microphone Cable

| Mechanical Specifications | | | | | | | | | |
|---------------------------|------------|------------------|--|--|----------------------------|--------------------|---|---|--|
| Part # | # of Pairs | Nominal OD | Conductors | Insulation/Color Code | Shield | Jacket | Jacket Colors | Approx. Weight | |
| XB201M | 1 | 0.240" (6.10 mm) | 22 AWG (41x38) Stranded Oxygen-Free BC | Foam Polypropylene, 0.015" (0.381 mm) Wall/White & Black | 95% TC Braid | Flexible Matte PVC | Black, Red, Yellow, Green, Blue, Violet | 38 lbs/Mft (57 kg/km) | |
| | | | | | | | | <i>X-Band 22 AWG Microphone Cable</i> | |
| XB201DBM | 1 | 0.265" (6.73 mm) | 22 AWG (41x38) Stranded Oxygen-Free BC | Foam Polypropylene, 0.015" (0.381 mm) Wall/White & Black | Dual Braid (95% TC/95% TC) | Flexible Matte PVC | Black | 40 lbs/Mft (60 kg/km) | |
| | | | | | | | | <i>X-Band 22 AWG Microphone Cable: Dual Braid</i> | |

| Electrical Specifications | |
|---|------------|
| Capacitance | Cond. DCR |
| 17 pF/ft Between Conductors, 30.6 pF/ft Between One Conductor and Other Tied to Shield | 10.5 Ω/Mft |



Connectors
Neutrik® Black & Gold Male XLRs, Male NC3MX-B and Female NC3FX-B

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Microphone: Quad Star



Features & Benefits

- Improved Noise & Hum Rejection
- Extra Flexible
- Increased Flex-Life
- Polyethylene Dielectric
- Full-Copper Braid Shield
- Drain Wire for Quick Shield Termination (MP1201 Only)
- Matte PVC Flexible Master Jacket

Applications

- Microphone or Line Level Balanced Analog Audio
- Portable Microphone Cables
- Ideal for Use in High EMI Environments
- Long-Frame or Bantam Patchcords

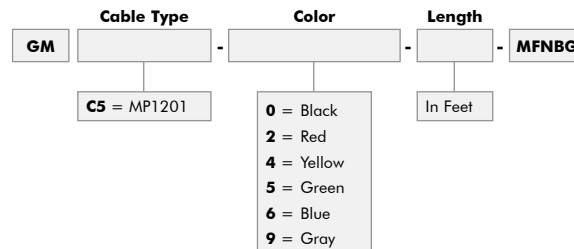
The MP1201 and MM1024 microphone cables use the industry-proven, quad-star design and tight-angled, full-coverage braid shield for maximum low-frequency EMI noise rejection. Four conductors form a "double balanced" system that minimizes the loop area and reduces noise induction from external sources such as AC lines and dimmer packs. As a result, this series is ideal for applications where high EMI is present or where a redundant pin-to-pin connection is desired for improved flex-life.

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductors | Insulation/Color Code | Shield | Drain Wire | Jacket | Jacket Colors | Approx. Weight |
|--------|------------|---------------------|-------------------------------|--|-----------------|-------------------------------|-----------------------|---|--------------------------|
| MP1201 | 4 | 0.240" (6.10 mm) | 24 AWG (41x40) Stranded BC | PE, 0.016" (0.406 mm) Wall/ White & Black, Red & Blue | 95% TC Braid | 24 AWG (41x40) Stranded TC | Flexible Matte PVC | Black, Red, Yellow, Green, Blue, Gray | 38 lbs/Mft (57 kg/km) |
| | | | | | | | | | |
| MM1024 | 4 | 0.193" (4.90 mm) | 26 AWG (30x40) Stranded TC | PE, 0.012" (0.305 mm) Wall/ White & Black, Red & Blue | 95% TC Braid | None | Flexible Matte PVC | Black (Other Colors May Also Be Available) | 26 lbs/Mft (39 kg/km) |
| | | | | | | | | | |

Electrical Specifications

| Part # | Capacitance | Cond. DCR | Drain DCR |
|--------|---|------------|------------|
| MP1201 | 39 pF/ft Between Conductors, 57 pF/ft Between One Conductor and Other Tied to Shield | 25.6 Ω/Mft | 25.6 Ω/Mft |
| MM1024 | 32 pF/ft Between Conductors, 54 pF/ft Between One Conductor and Other Tied to Shield | 34.4 Ω/Mft | — |



Connectors
Neutrik® Black & Gold Male XLRs, Male NC3MX-B and Female NC3FX-B

Neutrik is a registered trademark of Neutrik AG.

Microphone: Thin Profile



The MP1022 is a thin profile, easy-to-terminate microphone cable for applications where reduced size and weight are required. The reduced diameter, matte PVC jacket and tight-angled braid shield make MP1022 both extremely flexible and easy to handle. The MP1022 microphone cable is ideal for mobile production trucks, multi-pin to XLR breakout cables, bantam or long-frame patchcords and short distance balanced mic or line level equipment interconnect.

Features & Benefits

- Thin Profile
- Light Weight
- Low Attenuation
- Extra Flexible
- Polyethylene Dielectric
- Full-Copper Braid Shield
- Drain Wire for Quick Shield Termination
- Matte PVC Flexible Master Jacket

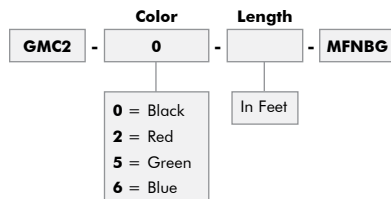
Applications

- Microphone or Line Level Balanced Analog Audio
- Portable Microphone Cables
- Balanced Equipment Interconnect
- Long-Frame or Bantam Patchcords

| Mechanical Specifications | | | | | | | | | | |
|---------------------------|------------|------------------|----------------------------|--|--------------|----------------------------|--------------------|-------------------------|-----------------------|--|
| Part # | # of Pairs | Nominal OD | Conductors | Insulation/Color Code | Shield | Drain Wire | Jacket | Jacket Colors | Approx. Weight | |
| MP1022 | 1 | 0.194" (4.93 mm) | 24 AWG (41x40) Stranded TC | PE, 0.013" (0.330 mm) Wall/White & Black | 95% TC Braid | 24 AWG (41x40) Stranded TC | Flexible Matte PVC | Black, Red, Green, Blue | 25 lbs/Mft (37 kg/km) | |

| Electrical Specifications | | |
|---|------------|------------|
| Capacitance | Cond. DCR | Drain DCR |
| 20 pF/ft Between Conductors, 37 pF/ft Between One Conductor and Other Tied to Shield | 25.6 Ω/Mft | 25.6 Ω/Mft |

Microphone



Connectors

Neutrik® Black & Gold Male XLRs, Male NC3MX-B and Female NC3FX-B

DT12 Fanout



DTFAN36F12MG

Connectors

Gepeco® Brand All-Metal 37-Pin Circular DT12 (1) G37M & (12) Neutrik® Black & Gold Female XLRs (NC3FX-B)

DTFAN36M12FG

Connectors

Gepeco® Brand All-Metal 37-Pin Circular DT12 (1) G37M & (12) Neutrik® Black & Gold Female XLRs (NC3FX-B)

Neutrik is a registered trademark of Neutrik AG.

Speaker: High Definition



The Gepco® Brand high-purity, densely stranded, oxygen-free speaker cable is designed for high-resolution control room monitoring applications. Each conductor is constructed from 423 or 259 strands of 99.999% oxygen-free bare copper. The high conductivity of these strands minimizes the series resistance of the cable, thereby reducing the power loss and improving amplifier-to-speaker dampening performance. These characteristics not only improve the efficiency of the monitoring system, but also improve the low-frequency and imaging response compared to other cable types. The outer jacket is constructed of a transparent PVC compound that is both flexible and easy to terminate.

Features & Benefits

- Low Loss
- Extra Flexible
- Heavy-Gauge Conductors
- Densely Stranded, Oxygen-Free Copper
- Convenient Zip Construction
- Transparent Flexible PVC Jacket

Applications

- Speaker-to-Amplifier Interconnect
- Control Room Monitoring
- Home Theater

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductors | Insulation | Conductor Identification | Approx. Weight |
|-----------|------------|---|--|---|----------------------------------|---------------------------|
| GSC102OFC | 2 | 0.225" x 0.455" (5.72 mm x 11.56 mm) | 10 AWG (423x36) Stranded Oxygen-Free BC | Transparent PVC, 0.048" (1.22 mm) Wall | One Leg Legend, One Leg Plain | 88 lbs/Mft (131 kg/km) |
| GSC122OFC | 2 | 0.182" x 0.370" (4.62 mm x 9.40 mm) | 12 AWG (259x36) Stranded Oxygen-Free BC | Transparent PVC, 0.040" (1.02 mm) Wall | One Leg Legend, One Leg Plain | 65 lbs/Mft (97 kg/km) |

Electrical Specifications

| Part # | Cond. DCR |
|-----------|-----------|
| GSC102OFC | 1.0 Ω/Mft |
| GSC122OFC | 1.6 Ω/Mft |

Speaker: High-Bandwidth HBW Series



The HBW series of high-bandwidth speaker cables offers exceptional stereo imaging and transient response, wide bandwidth and extra flexibility, all in an easy-to-terminate design. The HBW series is available in 12 or 14 AWG types in two- or four-conductor versions. All conductors consist of high-density, oxygen-free copper to provide maximum conductivity and power transfer. To further reduce the attenuation and increase the bandwidth of the cable, each conductor is coated with a low-loss, premium-grade, polyethylene dielectric compound. For the outer jacket, the HBW features a round and extra-flexible TPE matte jacket.

Features & Benefits

- 99.999% OFC Copper
- Extended Frequency Response
- Extra-Flexible & Round Jacket
- Two- & Four-Conductor Versions
- UL Rated for Permanent Installation

Applications

- Speaker Level Analog Audio
- Permanent Installation
- High-Resolution Monitoring

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation/Color Code | Jacket (Type, Colors) | UL Type | Approx. Weight |
|--------|------------|---------------------|---|--|-----------------------|---------|----------------------------|
| 142HBW | 2 | 0.350" (8.89 mm) | 14 AWG (3x56/36) Oxygen-Free BC | PE, 0.020" (0.508 mm)/ Black & Red | TPE, Black | CL3 | 68 lbs/Mft (101 kg/km) |
| | | | 14 AWG x 2 High-Bandwidth OFC Speaker Cable | | | | |
| 144HBW | 4 | 0.410" (10.4 mm) | 14 AWG (3x56/36) Oxygen-Free BC | PE, 0.020" (0.508 mm)/ Black, White, Red, Green | TPE, Black | CL3 | 45 lbs/Mft (67 kg/km) |
| | | | 14 AWG x 4 High-Bandwidth OFC Speaker Cable | | | | |
| 122HBW | 2 | 0.390" (9.90 mm) | 12 AWG (3x87/36) Oxygen-Free BC | PE, 0.020" (0.508 mm)/ Black & Red | TPE, Black | CL3 | 93 lbs/Mft (139 kg/km) |
| | | | 12 AWG x 2 High-Bandwidth OFC Speaker Cable | | | | |
| 124HBW | 4 | 0.480" (12.2 mm) | 12 AWG (3x87/36) Oxygen-Free BC | PE, 0.020" (0.508 mm)/ Black, White, Red, Green | TPE, Black | CL3 | 169 lbs/Mft (252 kg/km) |
| | | | 12 AWG x 4 High-Bandwidth OFC Speaker Cable | | | | |

Electrical Specifications

| Part # | Cond. DCR | Capacitance |
|---------------|-----------|-------------|
| 142HBW/144HBW | 2.5 Ω/Mft | 20 pF/ft |
| 122HBW/124HBW | 1.5 Ω/Mft | 20 pF/ft |

Speaker: Portable Multi-Conductor



Features & Benefits

- Easy-to-Handle Round Construction
- Low Loss
- Extra Flexible
- Heavy-Gauge Conductors
- All-Weather TPE Master Jacket

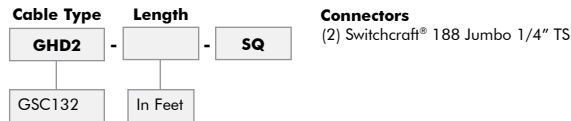
Applications

- Speaker-to-Amplifier Interconnect
- Portable Speaker Cables
- Ideal for Use with Neutrik® speakON® Connectors

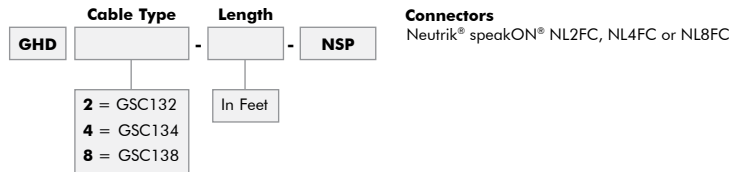
In a flexible and portable round construction, the Gepco® Brand multi-conductor, low-loss speaker cable features densely stranded 13 AWG conductors that achieve low series resistance and excellent flex-life. Multiple conductors allow for bi-amping or multiple speaker cabinets to be interconnected by one cable. Durable and flexible in low temperatures, the all-weather TPE jacket makes this series well suited for sound reinforcement applications or use in hostile environments. This series is ideal for termination with Neutrik® speakON® type connectors.

| Mechanical Specifications (Series) | | | | |
|--|------------------------|-----------------------|---|-------------------------|
| Conductors | Insulation | Jacket (Type, Colors) | | |
| 13 AWG (52x30) Stranded BC | PVC, 0.024" (0.610 mm) | TPE, Black | | |
| Mechanical Specifications (Individual) | | | | |
| Part # | # of Cond. | Nominal OD | Conductor Color Code | Approx. Weight |
| GSC132 | 2 | 0.350" (8.89 mm) | White & Black | 85 lbs/Mft (127 kg/km) |
| GSC134 | 4 | 0.420" (10.67 mm) | White, Black, Green, Red | 130 lbs/Mft (194 kg/km) |
| GSC138 | 8 | 0.580" (14.73 mm) | White, Black, Green, Red, Brown, Blue, Orange, Yellow | 259 lbs/Mft (386 kg/km) |
| Electrical Specifications | | | | |
| Cond. DCR | | | | |
| 2.2 Ω/Mft | | | | |

1/4" Speaker



SpeakON® Speaker



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Unshielded Indoor/Outdoor Direct Burial Speaker: High-Resolution



Gepco® Brand direct burial high-resolution speaker cables feature 99.99% oxygen-free copper conductors for maximum conductivity and power transfer. Designed for both indoor and outdoor use, the jacket is both sunlight-resistant and suitable for direct burial. Available in 14 and 18 AWG and in two- and four-conductor versions, these speaker cables are UL rated for permanent installation.

Features & Benefits

- 99.99% Oxygen-Free Copper (OFC) Conductors
- Wide Frequency Response
- Direct Burial and Sunlight-Resistant
- Two- and Four-Conductor Versions

Applications

- Direct Burial
- Permanent Installation

Mechanical Specifications

| Part # | # of Conductors | Nominal OD | Conductor (Type, DCR) | Insulation (Type, Color Code) | Jacket (Type, Color) | UL Type | Approx. Weight |
|----------|---|---------------------|-----------------------------------|---|------------------------------|----------------|---------------------------|
| SSPUB162 | 2 | 0.236" (5.99 mm) | 16 AWG (65x34) Oxygen-Free BC | PVC, 0.010" (0.25 mm) Black & Red | PVC, White, Black | CL3/PLTC or CM | 37 lbs/Mft (55 kg/km) |
| | 16 AWG x 2 High-Resolution OFC Indoor/Outdoor Direct Burial Speaker Cable | | | | | | |
| SSPUB164 | 4 | 0.272" (6.91 mm) | 16 AWG (65x34) Oxygen-Free BC | PVC, 0.010" (0.25 mm) Black, White, Red, Green | PVC, Teal | CL3/PLTC or CM | 61 lbs/Mft (91 kg/km) |
| | 16 AWG x 4 High-Resolution OFC Indoor/Outdoor Direct Burial Speaker Cable | | | | | | |
| SSPUB142 | 2 | 0.268" (6.81 mm) | 14 AWG (105x34) Oxygen-Free BC | PVC, 0.012" (0.30 mm) Black & Red | PVC, White, Violet, Black | CL3/PLTC | 52 lbs/Mft (77 kg/km) |
| | 14 AWG x 2 High-Resolution OFC Indoor/Outdoor Direct Burial Speaker Cable | | | | | | |
| SSPUB144 | 4 | 0.312" (7.92 mm) | 14 AWG (105x34) Oxygen-Free BC | PVC, 0.012" (0.30 mm) Black, White, Red, Green | PVC, Blue | CL3/PLTC | 89 lbs/Mft (133 kg/km) |
| | 14 AWG x 4 High-Resolution OFC Indoor/Outdoor Direct Burial Speaker Cable | | | | | | |

Electrical Specifications

| Part # | Cond. DCR |
|--------------------|-----------|
| SSPUB162, SSPUB164 | 4.0 Ω/Mft |
| SSPUB142, SSPUB144 | 2.5 Ω/Mft |

Unshielded Indoor/Outdoor Direct Burial Speaker



Gepco® Brand direct burial speaker cables feature high-strand bare copper conductors for maximum conductivity and power transfer. Designed for both indoor and outdoor use, the jacket is both sunlight-resistant and suitable for direct burial. Available in 12 to 18 AWG and in two- and four-conductor versions, these speaker cables are UL rated for permanent installation.

Features & Benefits

- High-Strand Bare Copper
- Wide Frequency Response
- Direct Burial and Sunlight-Resistant

Applications

- Direct Burial
- Permanent Installation

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor (Type, DCR) | Insulation (Type, Color Code) | Jacket (Type, Color) | UL Type | Approx. Weight |
|---------|---|---------------------|--------------------------------|---|----------------------|----------|----------------------------|
| SSUB162 | 2 | 0.222" (5.64 mm) | 16 AWG (65x34) Stranded BC | PVC, 0.010" (0.254 mm), Red & Black | PVC, White or Black | CM & CL3 | 37 lbs/Mft (55 kg/km) |
| | 16 AWG x 2 Indoor/Outdoor Direct Burial Speaker Cable | | | | | | |
| SSUB164 | 4 | 0.250" (6.35 mm) | 16 AWG (65x34) Stranded BC | PVC, 0.009" (0.229 mm), Black, White, Red, Green | PVC, White or Black | CL3 | 61 lbs/Mft (91 kg/km) |
| | 16 AWG x 4 Indoor/Outdoor Direct Burial Speaker Cable | | | | | | |
| SSUB142 | 2 | 0.252" (6.40 mm) | 14 AWG (41x30) Stranded BC | PVC, 0.011" (0.279 mm), Black & Red | PVC, White or Black | CL3 | 52 lbs/Mft (77 kg/km) |
| | 14 AWG x 2 Indoor/Outdoor Direct Burial Speaker Cable | | | | | | |
| SSUB144 | 4 | 0.297" (7.54 mm) | 14 AWG (41x30) Stranded BC | PVC, 0.012" (0.305 mm), Black, White, Red, Green | PVC, White or Black | CL3 | 89 lbs/Mft (133 kg/km) |
| | 14 AWG x 4 Indoor/Outdoor Direct Burial Speaker Cable | | | | | | |
| SSUB122 | 2 | 0.306" (7.77 mm) | 12 AWG (105x32) Stranded BC | PVC, 0.011" (0.279 mm), Black & Red | PVC, White or Black | CL3 | 66 lbs/Mft (98 kg/km) |
| | 12 AWG x 2 Indoor/Outdoor Direct Burial Speaker Cable | | | | | | |
| SSUB124 | 4 | 0.364" (9.25 mm) | 12 AWG (105x32) Stranded BC | PVC, 0.011" (0.279 mm), Black, White, Red, Green | PVC, White or Black | CL3 | 120 lbs/Mft (179 kg/km) |
| | 12 AWG x Indoor/Outdoor Direct Burial 4 Speaker Cable | | | | | | |

Electrical Specifications

| Part # | Cond. DCR |
|------------------|-----------|
| SSUB162, SSUB164 | 4.0 Ω/Mft |
| SSUB142, SSUB144 | 2.5 Ω/Mft |
| SSUB122, SSUB124 | 1.5 Ω/Mft |

Speaker: Permanent Installation, Unshielded



Gepeco® Brand permanent-installation speaker cable is made from only high-grade compounds and materials. Each conductor is constructed from tinned copper to protect against oxidization and improve cable termination. For non-plenum versions, the insulation is a premium-grade PVC compound with both exceptional electrical and mechanical characteristics, ensuring improved cable termination and better signal transfer. Available in 12 through 18 AWG, each version is manufactured in both UL rated plenum or non-plenum constructions and is ideal for permanent installation in conduit, walls or ceilings.

Features & Benefits

- Easy to Install
- Premium PVC Insulation (Non-Plenum)
- Low-Friction, Easy-to-Install Jacket
- Tinned Copper Conductors
- Multiple Gauge Sizes Available
- UL Listed

Applications

- Speaker Level Analog Audio
- Permanent Installation

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Conductor | Insulation/Color Code | Shield | Drain Wire | Jacket (Type, Colors) | UL Type | Approx. Weight |
|--------|------------|---------------------|-------------------------------|--|--------|------------|-----------------------|---------|---------------------------|
| 1200 | 1 | 0.384" (9.75 mm) | 12 AWG (19x25) Stranded TC | PVC, 0.031" (0.787 mm) Wall/ White & Black | — | — | PVC, Gray | PLTC | 89 lbs/Mft (133 kg/km) |
| | | | | | | | | | |
| 1200HS | 1 | 0.270" (6.86 mm) | 12 AWG (65x30) Stranded TC | Halar®, 0.008" (0.203 mm) Wall/ Red & Black | — | — | Plenum PVC, White | CL3P | 87 lbs/Mft (130 kg/km) |
| | | | | | | | | | |
| 1400 | 1 | 0.336" (8.53 mm) | 14 AWG (19x27) Stranded TC | PVC, 0.031" (0.787 mm) Wall/ White & Black | — | — | PVC, Gray | PLTC | 66 lbs/Mft (98 kg/km) |
| | | | | | | | | | |
| 1400HS | 1 | 0.215" (5.46 mm) | 14 AWG (41x30) Stranded TC | Halar®, 0.008" (0.203 mm) Wall/ Red & Black | — | — | Plenum PVC, White | CL2P | 64 lbs/Mft (95 kg/km) |
| | | | | | | | | | |
| 1600 | 1 | 0.254" (6.45 mm) | 16 AWG (19x29) Stranded TC | PVC, 0.016" (0.406 mm) Wall/ White & Black | — | — | PVC, Gray | PLTC | 43 lbs/Mft (64 kg/km) |
| | | | | | | | | | |
| 1600HS | 1 | 0.180" (4.57 mm) | 16 AWG (19x29) Stranded TC | Halar®, 0.008" (0.203 mm) Wall/ Red & Black | — | — | Plenum PVC, White | CMP | 39 lbs/Mft (58 kg/km) |
| | | | | | | | | | |
| 1800 | 1 | 0.224" (5.69 mm) | 18 AWG (7x26) Stranded TC | PVC, 0.016" (0.406 mm) Wall/ White & Black | — | — | PVC, Gray | CM | 31 lbs/Mft (46 kg/km) |
| | | | | | | | | | |
| 1800HS | 1 | 0.160" (4.06 mm) | 18 AWG (16x30) Stranded TC | Halar®, 0.007" (0.178 mm) Wall/ Red & Black | — | — | Plenum PVC, White | CMP | 28 lbs/Mft (42 kg/km) |
| | | | | | | | | | |

Electrical Specifications

| Part # | Cond. DCR |
|--------|-----------|
| 1200 | 1.8 Ω/Mft |
| 1200HS | 1.7 Ω/Mft |
| 1400 | 2.8 Ω/Mft |
| 1400HS | 2.7 Ω/Mft |
| 1600 | 4.5 Ω/Mft |
| 1600HS | 4.5 Ω/Mft |
| 1800 | 6.0 Ω/Mft |
| 1800HS | 6.7 Ω/Mft |

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Speaker and Control: Unshielded Riser



Gepco® Brand unshielded speaker and control cable is an economical option for permanent installation in conduit, walls or ceilings. The conductive elements consist of stranded, bare copper conductors that are insulated with a PVC insulation compound. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. Gepco Brand unshielded speaker and control cables are available in eight through 22 AWG.

Features & Benefits

- Economical Construction
- Bare Copper Conductors
- PVC Insulation
- 8 Through 22 AWG Versions
- UL Rated

Applications

- Speaker Interconnections
- General Purpose Audio
- Control

| Mechanical Specifications | | | | | | | | | |
|---|------------|---------------------|---|---|--------|------------|-----------------------|---------|---------------------------|
| Part # | # of Cond. | Nominal OD | Conductor | Insulation/Color Code | Shield | Drain Wire | Jacket (Type, Colors) | UL Type | Approx. Weight |
| SSU102R | 4 | 0.305" (7.75 mm) | 10 AWG (65x28) Stranded BC | PVC, 0.012" (0.30 mm) Wall/ Black & Red | — | — | PVC, Gray | CL2R | 78 lbs/Mft (116 kg/km) |
| | | | 10 AWG Speaker Cable: Riser | | | | | | |
| SSU122R | 2 | 0.252" (6.40 mm) | 12 AWG (19x25) Stranded BC | PVC, 0.011" (0.28 mm) Wall/ Black & Red | — | — | PVC, Gray | CL3R | 52 lbs/Mft (77 kg/km) |
| SSU124R | 4 | 0.298" (7.57 mm) | 12 AWG (19x25) Stranded BC | PVC, 0.011" (0.28 mm) Wall/ Black, Red, White & Green | — | — | PVC, Gray | CL3R | 99 lbs/Mft (148 kg/km) |
| | | | 12 AWG Speaker and Control Cable: Riser | | | | | | |
| SSU142R | 2 | 0.212" (5.38 mm) | 14 (19x27) AWG Stranded BC | PVC, 0.010" (0.25 mm) Wall/ Black & Red | — | — | PVC, Gray | CL3R | 34 lbs/Mft (51 kg/km) |
| SSU144R | 4 | 0.247" (6.32 mm) | 14 (19x27) AWG Stranded BC | PVC, 0.010" (0.25 mm) Wall/ Black, Red, White & Green | — | — | PVC, Gray | CL3R | 65 lbs/Mft (97 kg/km) |
| | | | 14 AWG Speaker and Control Cable: Riser | | | | | | |
| SSU162R | 2 | 0.178" (4.52 mm) | 16 (19x29) AWG Stranded BC | PVC, 0.009" (0.23 mm) Wall/ Black & Red | — | — | PVC, Gray | CMR | 24 lbs/Mft (36 kg/km) |
| SSU164R | 4 | 0.210" (5.33 mm) | 16 (19x29) AWG Stranded BC | PVC, 0.009" (0.23 mm) Wall/ Black, Red, White & Green | — | — | PVC, Gray | CMR | 43 lbs/Mft (64 kg/km) |
| | | | 16 AWG Speaker and Control Cable: Riser | | | | | | |
| SSU182R | 2 | 0.154" (3.91 mm) | 18 (7x26) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black & Red | — | — | PVC, Gray | CMR | 17 lbs/Mft (25 kg/km) |
| SSU184R | 4 | 0.180" (4.57 mm) | 18 (7x26) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White & Green | — | — | PVC, Gray | CMR | 29 lbs/Mft (43 kg/km) |
| | | | 18 AWG Speaker and Control Cable: Riser | | | | | | |
| SSU202R | 2 | 0.134" (3.40 mm) | 20 (7x28) AWG Stranded BC | PVC, 0.007" (0.18 mm) Wall/ Black & Red | — | — | PVC, Gray | CMR | 12 lbs/Mft (18 kg/km) |
| SSU204R | 4 | 0.142" (3.61 mm) | 20 (7x28) AWG Stranded BC | PVC, 0.007" (0.18 mm) Wall/ Black, Red, White & Green | — | — | PVC, Gray | CMR | 20 lbs/Mft (30 kg/km) |
| | | | 20 AWG Speaker and Control Cable: Riser | | | | | | |
| SSU222R | 2 | 0.144" (3.66 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black & Red | — | — | PVC, Gray | CMR | 9 lbs/Mft (13 kg/km) |
| SSU224R | 4 | 0.122" (3.10 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White & Green | — | — | PVC, Gray | CMR | 15 lbs/Mft (22 kg/km) |
| SSU226R | 6 | 0.165" (4.19 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White, Green, Brown & Black | — | — | PVC, Gray | CMR | 22 lbs/Mft (33 kg/km) |
| 22 AWG Speaker and Control Cable: Riser | | | | | | | | | |

| Electrical Specifications | |
|---------------------------|------------|
| Part # | Cond. DCR |
| SSU102R | 0.94 Ω/Mft |
| SSU122R, SSU124R | 1.70 Ω/Mft |
| SSU142R, SSU144R | 2.71 Ω/Mft |
| SSU162R, SSU164R | 4.31 Ω/Mft |
| SSU182R, SSU184R | 5.83 Ω/Mft |
| SSU202R, SSU204R | 9.27 Ω/Mft |
| SSU222R, SSU224R, SSU226R | 14.7 Ω/Mft |

Speaker and Control: Unshielded Plenum



Gepco® Brand unshielded speaker and control cable is an economical option for permanent installation in conduit, walls or ceilings. The conductive elements consist of stranded, bare copper conductors that are insulated with a PVC insulation compound. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. Gepco Brand unshielded speaker and control cables are available in eight through 22 AWG.

Features & Benefits

- Economical Construction
- Bare Copper Conductors
- PVC Insulation
- 8 Through 22 AWG Versions
- UL Rated

Applications

- Speaker Interconnections
- General Purpose Audio
- Control

| Mechanical Specifications | | | | | | | | | |
|--|------------|------------------|----------------------------|--|--------|------------|--------------------------------|---------|-------------------------|
| Part # | # of Cond. | Nominal OD | Conductor | Insulation/Color Code | Shield | Drain Wire | Jacket (Type, Colors) | UL Type | Approx. Weight |
| SSU102P | 4 | 0.305" (7.75 mm) | 10 AWG (65x28) Stranded BC | PVC, 0.012" (0.30 mm) Wall/Black & Red | — | — | PVC, Natural (Gray by Request) | CL2P | 81 lbs/Mft (121 kg/km) |
| 10 AWG Speaker Cable: Plenum | | | | | | | | | |
| SSU122P | 2 | 0.252" (6.40 mm) | 12 AWG (19x25) Stranded BC | PVC, 0.011" (0.28 mm) Wall/Black & Red | — | — | PVC, Natural (Gray by Request) | CL3P | 54 lbs/Mft (80 kg/km) |
| SSU124P | 4 | 0.298" (7.57 mm) | 12 AWG (19x25) Stranded BC | PVC, 0.011" (0.28 mm) Wall/Black, Red, White & Green | — | — | PVC, Natural (Gray by Request) | CL3P | 103 lbs/Mft (153 kg/km) |
| 12 AWG Speaker and Control Cable: Plenum | | | | | | | | | |
| SSU142P | 2 | 0.212" (5.38 mm) | 14 (19x27) AWG Stranded BC | PVC, 0.010" (0.25 mm) Wall/Black & Red | — | — | PVC, Natural (Gray by Request) | CL3P | 36 lbs/Mft (54 kg/km) |
| SSU144P | 4 | 0.247" (6.32 mm) | 14 (19x27) AWG Stranded BC | PVC, 0.010" (0.25 mm) Wall/Black, Red, White & Green | — | — | PVC, Natural (Gray by Request) | CL3P | 67 lbs/Mft (100 kg/km) |
| 14 AWG Speaker and Control Cable: Plenum | | | | | | | | | |
| SSU162P | 2 | 0.174" (4.42 mm) | 16 (19x29) AWG Stranded BC | PVC, 0.009" (0.23 mm) Wall/Black & Red | — | — | PVC, Natural (Gray by Request) | CMP | 25 lbs/Mft (37 kg/km) |
| SSU164P | 4 | 0.205" (5.21 mm) | 16 (19x29) AWG Stranded BC | PVC, 0.009" (0.23 mm) Wall/Black, Red, White & Green | — | — | PVC, Natural (Gray by Request) | CMP | 44 lbs/Mft (66 kg/km) |
| 16 AWG Speaker and Control Cable: Plenum | | | | | | | | | |
| SSU182P | 2 | 0.156" (3.96 mm) | 18 (7x26) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/Black & Red | — | — | PVC, Natural (Gray by Request) | CMP | 18 lbs/Mft (27 kg/km) |
| SSU184P | 4 | 0.180" (4.57 mm) | 18 (7x26) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/Black, Red, White & Green | — | — | PVC, Natural (Gray by Request) | CMP | 31 lbs/Mft (46 kg/km) |
| 18 AWG Speaker and Control Cable: Plenum | | | | | | | | | |
| SSU202P | 2 | 0.134" (3.40 mm) | 20 (7x28) AWG Stranded BC | PVC, 0.007" (0.18 mm) Wall/Black & Red | — | — | PVC, Natural (Gray by Request) | CMP | 13 lbs/Mft (19 kg/km) |
| SSU204P | 4 | 0.156" (3.96 mm) | 20 (7x28) AWG Stranded BC | PVC, 0.007" (0.18 mm) Wall/Black, Red, White & Green | — | — | PVC, Natural (Gray by Request) | CMP | 22 lbs/Mft (33 kg/km) |
| 20 AWG Speaker and Control Cable: Plenum | | | | | | | | | |
| SSU222P | 2 | 0.120" (3.05 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/Black & Red | — | — | PVC, Natural (Gray by Request) | CMP | 10 lbs/Mft (15 kg/km) |
| SSU224P | 4 | 0.139" (3.53 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/Black, Red, White & Green | — | — | PVC, Natural (Gray by Request) | CMP | 16 lbs/Mft (24 kg/km) |
| SSU226P | 6 | 0.165" (4.19 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/Black, Red, White, Green, Brown & Black | — | — | PVC, Natural (Gray by Request) | CMP | 22 lbs/Mft (33 kg/km) |
| 22 AWG Speaker and Control Cable: Plenum | | | | | | | | | |

| Electrical Specifications | |
|---------------------------|------------|
| Part # | Cond. DCR |
| SSU102P | 0.94 Ω/Mft |
| SSU122P, SSU124P | 1.70 Ω/Mft |
| SSU142P, SSU144P | 2.71 Ω/Mft |
| SSU162P, SSU164P | 4.31 Ω/Mft |
| SSU182P, SSU184P | 5.83 Ω/Mft |
| SSU202P, SSU204P | 9.27 Ω/Mft |
| SSU224P, SSU226P | 14.7 Ω/Mft |

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Speaker and Control: Shielded Riser



Gepeco® Brand shielded speaker and control cable is an economical option for permanent installation in conduit, walls or ceilings. The conductive elements consist of stranded, bare copper conductors that are insulated with a PVC insulation compound. For added noise rejection and suppression, the conductors are shielded with a durable 100% foil/Mylar® and tinned copper drain wire. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. Gepeco Brand shielded speaker and control cables are available in 12 through 22 AWG.

Features & Benefits

- Economical Construction
- Bare Copper Conductors
- PVC Insulation
- Foil Shield with Drain Wire
- 12 Through 22 AWG Versions
- UL Rated

Applications

- Speaker Interconnections
- General Purpose Audio
- Control

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation/Color Code | Shield | Drain Wire | Jacket (Type, Colors) | UL Type | Approx. Weight |
|---|------------|------------------|----------------------------|---|-----------|----------------------------|-----------------------|---------|-------------------------|
| SSS122R | 2 | 0.257" (6.53 mm) | 12 AWG (19x25) Stranded BC | PVC, 0.011" (0.28 mm) Wall/ Black & Red | 100% Foil | 18 AWG (16x30) Stranded TC | PVC, Gray | CL3R | 58 lbs/Mft (86 kg/km) |
| SSS124R | 4 | 0.304" (7.72 mm) | 12 AWG (19x25) Stranded BC | PVC, 0.011" (0.28 mm) Wall/ Black, Red, White & Green | 100% Foil | 18 AWG (16x30) Stranded TC | PVC, Gray | CL3R | 105 lbs/Mft (156 kg/km) |
| <i>12 AWG Shielded Speaker and Control Cable: Riser</i> | | | | | | | | | |
| SSS142R | 2 | 0.217" (5.51 mm) | 14 (19x27) AWG Stranded BC | PVC, 0.010" (0.25 mm) Wall/ Black & Red | 100% Foil | 18 AWG (16x30) Stranded TC | PVC, Gray | CL3R | 41 lbs/Mft (61 kg/km) |
| SSS144R | 4 | 0.254" (6.45 mm) | 14 (19x27) AWG Stranded BC | PVC, 0.010" (0.25 mm) Wall/ Black, Red, White & Green | 100% Foil | 18 AWG (16x30) Stranded TC | PVC, Gray | CL3R | 73 lbs/Mft (109 kg/km) |
| <i>14 AWG Shielded Speaker and Control Cable: Riser</i> | | | | | | | | | |
| SSS162R | 2 | 0.183" (4.65 mm) | 16 (19x29) AWG Stranded BC | PVC, 0.009" (0.23 mm) Wall/ Black & Red | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Gray | CMR | 27 lbs/Mft (40 kg/km) |
| SSS164R | 4 | 0.219" (5.56 mm) | 16 (19x29) AWG Stranded BC | PVC, 0.009" (0.23 mm) Wall/ Black, Red, White & Green | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Gray | CMR | 47 lbs/Mft (70 kg/km) |
| <i>16 AWG Shielded Speaker and Control Cable: Riser</i> | | | | | | | | | |
| SSS182R | 2 | 0.159" (4.04 mm) | 18 (7x26) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black & Red | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Gray | CMR | 20 lbs/Mft (30 kg/km) |
| SSS184R | 4 | 0.184" (4.67 mm) | 18 (7x26) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White & Green | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Gray | CMR | 33 lbs/Mft (49 kg/km) |
| <i>18 AWG Shielded Speaker and Control Cable: Riser</i> | | | | | | | | | |
| SSS204R | 4 | 0.171" (4.34 mm) | 20 (7x28) AWG Stranded BC | PVC, 0.007" (0.18 mm) Wall/ Black, Red, White & Green | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Gray | CMR | 23 lbs/Mft (34 kg/km) |
| <i>20 AWG Shielded Speaker and Control Cable: Riser</i> | | | | | | | | | |
| SSS224R | 4 | 0.144" (3.66 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White & Green | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Gray | CMR | 17 lbs/Mft (25 kg/km) |
| SSS226R | 6 | 0.170" (4.32 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White, Green, Brown & Black | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Gray | CMR | 23 lbs/Mft (34 kg/km) |
| <i>22 AWG Shielded Speaker and Control Cable: Riser</i> | | | | | | | | | |

Electrical Specifications

| Part # | Capacitance | Cond. DCR |
|---------|--|------------|
| SSS122R | 70.3 pF/ft Between Conductors, 127 pF/ft Between One Conductor and Other Tied to Shield | 1.65 Ω/Mft |
| SSS124R | 59.4 pF/ft Between Conductors, 107 pF/ft Between One Conductor and Other Tied to Shield | 1.65 Ω/Mft |
| SSS142R | 66.2 pF/ft Between Conductors, 119 pF/ft Between One Conductor and Other Tied to Shield | 2.67 Ω/Mft |
| SSS144R | 56.4 pF/ft Between Conductors, 102 pF/ft Between One Conductor and Other Tied to Shield | 2.67 Ω/Mft |
| SSS162R | 62.1 pF/ft Between Conductors, 112 pF/ft Between One Conductor and Other Tied to Shield | 4.19 Ω/Mft |
| SSS164R | 53.4 pF/ft Between Conductors, 96.1 pF/ft Between One Conductor and Other Tied to Shield | 4.19 Ω/Mft |
| SSS182R | 56.1 pF/ft Between Conductors, 101 pF/ft Between One Conductor and Other Tied to Shield | 6.66 Ω/Mft |
| SSS184R | 48.9 pF/ft Between Conductors, 88.0 pF/ft Between One Conductor and Other Tied to Shield | 6.66 Ω/Mft |
| SSS204R | 46.7 pF/ft Between Conductors, 84.0 pF/ft Between One Conductor and Other Tied to Shield | 10.5 Ω/Mft |
| SSS224R | 39.9 pF/ft Between Conductors, 71.8 pF/ft Between One Conductor and Other Tied to Shield | 16.9 Ω/Mft |
| SSS226R | 36.4 pF/ft Between Conductors, 65.5 pF/ft Between One Conductor and Other Tied to Shield | 16.9 Ω/Mft |

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Speaker and Control: Shielded Plenum



Gepco® Brand shielded speaker and control cable is an economical option for permanent installation in conduit, walls or ceilings. The conductive elements consist of stranded, bare copper conductors that are insulated with a PVC insulation compound. For added noise rejection and suppression, the conductors are shielded with a durable 100% foil/Mylar® and tinned copper drain wire. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. Gepco Brand shielded speaker and control cables are available in 12 through 22 AWG.

Features & Benefits

- Economical Construction
- Bare Copper Conductors
- PVC Insulation
- Foil Shield with Drain Wire
- 12 Through 22 AWG Versions
- UL Rated

Applications

- Speaker Interconnections
- General Purpose Audio Control

| Mechanical Specifications | | | | | | | | | |
|---|--|------------------|----------------------------|---|-----------|----------------------------|--------------------------------|---------|-------------------------|
| Part # | # of Cond. | Nominal OD | Conductor | Insulation/Color Code | Shield | Drain Wire | Jacket (Type, Colors) | UL Type | Approx. Weight |
| SSS122P | 2 | 0.244" (6.20 mm) | 12 AWG (19x25) Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black & Red | 100% Foil | 18 AWG (16x30) Stranded TC | PVC, Natural (Gray by Request) | CL3P | 59 lbs/Mft (88 kg/km) |
| 12 AWG Shielded Speaker and Control Cable: Plenum | | | | | | | | | |
| SSS124P | 4 | 0.288" (7.32 mm) | 12 AWG (19x25) Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White & Green | 100% Foil | 18 AWG (16x30) Stranded TC | PVC, Natural (Gray by Request) | CL3P | 107 lbs/Mft (159 kg/km) |
| SSS142P | 2 | 0.207" (5.26 mm) | 14 (19x27) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black & Red | 100% Foil | 18 AWG (16x30) Stranded TC | PVC, Natural (Gray by Request) | CL3P | 41 lbs/Mft (61 kg/km) |
| SSS144P | 4 | 0.260" (6.60 mm) | 14 (19x27) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White & Green | 100% Foil | 18 AWG (16x30) Stranded TC | PVC, Natural (Gray by Request) | CL3P | 72 lbs/Mft (107 kg/km) |
| 14 AWG Shielded Speaker and Control Cable: Plenum | | | | | | | | | |
| SSS162P | 2 | 0.179" (4.55 mm) | 16 (19x29) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black & Red | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Natural (Gray by Request) | CMR | 28 lbs/Mft (43 kg/km) |
| SSS164P | 4 | 0.209" (5.31 mm) | 16 (19x29) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White & Green | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Natural (Gray by Request) | CMR | 47 lbs/Mft (70 kg/km) |
| 16 AWG Shielded Speaker and Control Cable: Plenum | | | | | | | | | |
| SSS182P | 2 | 0.159" (4.04 mm) | 18 (7x26) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black & Red | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Natural (Gray by Request) | CMR | 20 lbs/Mft (30 kg/km) |
| SSS184P | 4 | 0.185" (4.70 mm) | 18 (7x26) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White & Green | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Natural (Gray by Request) | CMR | 34 lbs/Mft (51 kg/km) |
| 18 AWG Shielded Speaker and Control Cable: Plenum | | | | | | | | | |
| SSS204P | 4 | 0.161" (4.09 mm) | 20 (7x28) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White & Green | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Natural (Gray by Request) | CMR | 25 lbs/Mft (37 kg/km) |
| 20 AWG Shielded Speaker and Control Cable: Plenum | | | | | | | | | |
| SSS224P | 4 | 0.147" (3.73 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White & Green | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Natural (Gray by Request) | CMR | 19 lbs/Mft (28 kg/km) |
| SSS226P | 6 | 0.170" (4.32 mm) | 22 (7x30) AWG Stranded BC | PVC, 0.008" (0.20 mm) Wall/ Black, Red, White, Green, Brown & Black | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Natural (Gray by Request) | CMR | 24 lbs/Mft (36 kg/km) |
| 22 AWG Shielded Speaker and Control Cable: Plenum | | | | | | | | | |
| Electrical Specifications | | | | | | | | | |
| Part # | Capacitance | | | | | | | | Cond. DCR |
| SSS122P | 82.5 pF/ft Between Conductors, 148 pF/ft Between One Conductor and Other Tied to Shield | | | | | | | | 1.65 Ω/Mft |
| SSS124P | 68.1 pF/ft Between Conductors, 123 pF/ft Between One Conductor and Other Tied to Shield | | | | | | | | 1.65 Ω/Mft |
| SSS142P | 77.1 pF/ft Between Conductors, 139 pF/ft Between One Conductor and Other Tied to Shield | | | | | | | | 2.67 Ω/Mft |
| SSS144P | 57.6 pF/ft Between Conductors, 104 pF/ft Between One Conductor and Other Tied to Shield | | | | | | | | 2.67 Ω/Mft |
| SSS162P | 67.2 pF/ft Between Conductors, 121 pF/ft Between One Conductor and Other Tied to Shield | | | | | | | | 4.19 Ω/Mft |
| SSS164P | 57.3 pF/ft Between Conductors, 103 pF/ft Between One Conductor and Other Tied to Shield | | | | | | | | 4.19 Ω/Mft |
| SSS182P | 57.4 pF/ft Between Conductors, 103 pF/ft Between One Conductor and Other Tied to Shield | | | | | | | | 6.66 Ω/Mft |
| SSS184P | 50.0 pF/ft Between Conductors, 90.0 pF/ft Between One Conductor and Other Tied to Shield | | | | | | | | 6.66 Ω/Mft |
| SSS204P | 45.0 pF/ft Between Conductors, 81.0 pF/ft Between One Conductor and Other Tied to Shield | | | | | | | | 10.5 Ω/Mft |
| SSS224P | 40.8 pF/ft Between Conductors, 73.4 pF/ft Between One Conductor and Other Tied to Shield | | | | | | | | 16.9 Ω/Mft |
| SSS226P | 40.8 pF/ft Between Conductors, 73.4 pF/ft Between One Conductor and Other Tied to Shield | | | | | | | | 16.9 Ω/Mft |

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DIGITAL AUDIO CABLES

| Page | Broadcast | Commercial A/V | Assemblies |
|-----------|-----------|----------------|------------|
| 32 | • | • | • |
| 33 | • | • | • |
| 34 | • | • | • |
| 35 | • | • | • |

In This Section:

- 110 Ω Multi-Pair DS Series: 24 AWG
- 110 Ω Multi-Pair DS Series: 26 AWG
- 110 Ω Single-Pair DS Series: 24 AWG
- 110 Ω Single-Pair DS Series: 26 AWG

IMPEDANCE-SPECIFIC TWISTED PAIR FOR DIGITAL AUDIO DATA TRANSMISSION



Impedance-Stabilizing Rods

The characteristic impedance of cable is determined by the physical relationship between the conductors and shield. To stabilize the impedance, every 110 Ω twisted-pair cable features a nonconductive polymer rod that maintains the geometry, and thereby impedance, of the cable core.

100% Foil or 95% Braided Shield

In addition to the pair twisting, noise rejection in balanced cables is achieved with a 100% aluminum/Mylar® shield or a tight-angled braid shield. Aluminum/Mylar foil provides additional strength compared to standard foil shields, while a tight-angled braid achieves greater strength, flaccidity and coverage.

AES/EBU Compliant

All digital audio cables meet or exceed AES3 or AES3id standards for digital audio transmission.

Nitrogen/Polymer Dielectric Compounds

Digital audio data transmission requires a 110 Ω impedance and up to 25 MHz of bandwidth. To achieve the bandwidth and impedance requirements, all digital audio cables utilize a low k constant nitrogen/polymer dielectric.

High-Purity Copper

Cable conductors are made from stranded tinned-copper, 99.999% oxygen-free copper or precision-drawn solid copper. These conductor types provide maximum conductivity for high-frequency data signal transmission.

Easy to Terminate

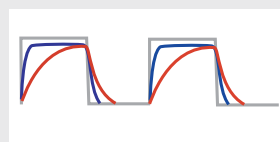
Each cable has time-saving features such as color coded jackets, optimized conductor stranding, drain wires and easy-to-strip compounds.

Electrical Characteristics & Specifications

Low Jitter & Pulse Rounding

Through impedance matching, low attenuation, bandwidth certification and noise rejection, cable induced bit-errors and jitter are eliminated or minimized.

PULSE ROUNDING OF DATA BITS

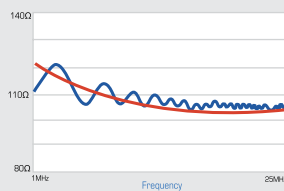


Original Bit Pulse
Pulse Through 110 Ω Digital Audio Cable
Pulse Through Analog Audio Cable

Precision 110 Ω Impedance

Digital audio cables feature a 110 Ω characteristic impedance. Impedance matching ensures low attenuation and minimal signal reflection which can result in bit-errors or jitter.

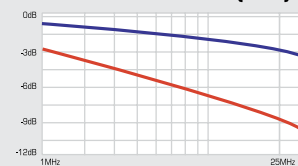
CHARACTERISTIC IMPEDANCE



Extended 25 MHz Bandwidth

All 110 Ω digital audio cables are certified to 25 MHz for transmission of sample rates up to 192 kHz. The bandwidth ensures that the loss, impedance and return loss meet or exceed the relevant standards across this range.

HIGH FREQUENCY CABLE ATTENUATION (100')



Attenuation of Analog Audio Cable
Attenuation of 110 Ω Digital Audio Cable

110 Ω Multi-Pair DS Series: 24 AWG



The DS4 series of AES/EBU digital audio multi-pair features an extended 25 MHz bandwidth, ultra-low attenuation, mechanical stability and a precision 110 Ω impedance. With the lowest available attenuation and precision impedance specifications, the DS4 series allows for longer runs of AES3 format digital audio over twisted-pair cable. The extended 25 MHz bandwidth is compliant with the 2003 revision of the AES3 standard for transmission of digital audio at sampling rates up to 192 kHz. Color coded and alphanumerically printed pairs facilitate easy channel identification and minimize crosstalk, while the riser rated GEP-FLEX master jacket is both flexible and easy to pull through conduit.

Features & Benefits

- Precision 110 Ω Impedance
- 25 MHz Bandwidth for 192 kHz Sampling Rates
- Flexible
- Gas-Injected Foam Dielectric
- Stabilizing Polyethylene Rod
- Individually Shielded & Jacketed Pairs
- Color Coded & Alphanumeric Pair Identification
- CMR Riser Rated

Applications

- AES3 Digital Audio
- Extended Bandwidth Analog Audio
- Studio Interconnect, Permanent Installation or Portable Snakes
- Ideal for Extended-Distance Runs

Mechanical Specifications (Series)

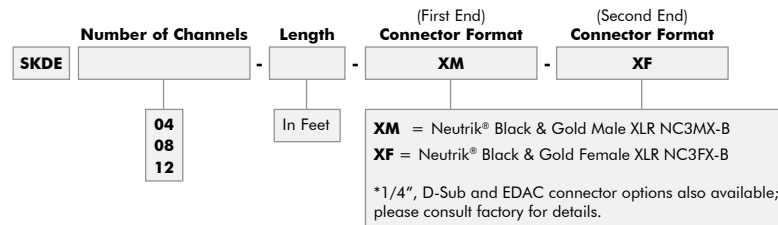
| Conductors | Dielectric/ Color Code | Pair Shield | Pair Drain | Pair Jacket (Type, OD)/ Color Code | Master Jacket | UL Type |
|------------------------------|--|----------------|------------------------------|---|-------------------------|------------|
| 24 AWG (7x32) Stranded TC | Foam PE, 0.021" (0.533 mm) Wall/White & Black | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, 0.180" (4.57 mm)/Base 10 (See Color Code Chart 1, Page 142) | GEP-FLEX TPE, Violet | CMR |

Mechanical Specifications (Individual)

| Part Number | # of Pairs | Nominal OD | Approx. Weight |
|-------------|------------|-------------------|-------------------------|
| DS404 | 4 | 0.620" (15.75 mm) | 125 lbs/Mft (186 kg/km) |
| DS408 | 8 | 0.815" (20.70 mm) | 260 lbs/Mft (387 kg/km) |
| DS412 | 12 | 0.995" (25.27 mm) | 380 lbs/Mft (566 kg/km) |

Electrical Specifications

| Impedance | Capacitance | Cond. DCR | Drain DCR | Attenuation (dB per 100 ft) | | | | |
|-----------|---|--------------|--------------|-----------------------------|-------|-------|--------|--------|
| | | | | 1 MHz | 3 MHz | 6 MHz | 12 MHz | 25 MHz |
| 110 Ω | 11 pF/ft Between Conductors, 21 pF/ft Between One Conductor and Other Tied to Shield | 23.8 Ω/Mft | 15.3 Ω/Mft | 0.09 | 1.30 | 1.60 | 2.15 | 4.10 |



Neutrik is a registered trademark of Neutrik AG.

110 Ω Multi-Pair DS Series: 26 AWG



The thin profile DS6 series of AES/EBU digital audio multi-pair features low attenuation, an extended 25 MHz bandwidth and a precision 110 Ω impedance. Color coded and alphanumerically printed pairs facilitate easy channel identification and minimize crosstalk, while the GEP-FLEX master jacket is both flexible and easy to pull through conduit. The smaller diameter makes this series ideal for use with XLR or multi-pin type connectors (such as DB25 or Elco®). The DS6 series is ideal for applications such as rack wiring, portable snakes, multi-pin breakout cables, patchbay harnessing or short-to-medium length permanent installation. The DS6 series is characterized up to 25 MHz for 192 kHz transmission.

Features & Benefits

- Thin Profile
- Extra-Flexible
- Precision 110 Ω Impedance
- 25 MHz Bandwidth for 192 kHz Sampling Rates
- Foam Polypropylene Dielectric
- Stabilizing Polyethylene Rod
- Individually Shielded & Jacketed Pairs
- Color Coded & Alphanumeric Pair Identification
- CM Rated

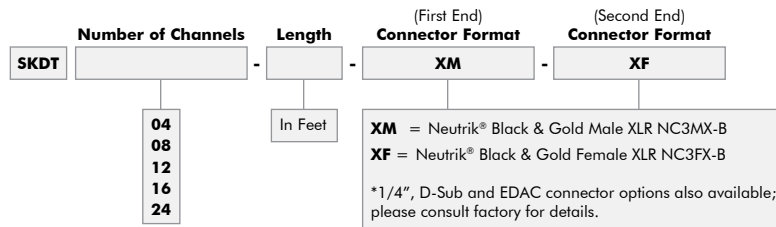
Applications

- AES3 Digital Audio
- Extended Bandwidth Analog Audio
- Studio Interconnect, Portable Snakes or Permanent Installation
- Multi-Pin Cable Assemblies

| Mechanical Specifications (Series) | | | | | | |
|------------------------------------|---|-------------|---------------------------|--|---------------------|---------|
| Conductors | Dielectric | Pair Shield | Pair Drain | Pair Jacket (Type, OD)/Color Code | Master Jacket | UL Type |
| 26 AWG (7x34) Stranded TC | Foam PP, 0.015" (0.381 mm) Wall/White & Black | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, 0.143" (3.63 mm)/Base 10 (See Color Code Chart 1, Page 142) | GEP-FLEX TPE, Black | CM |

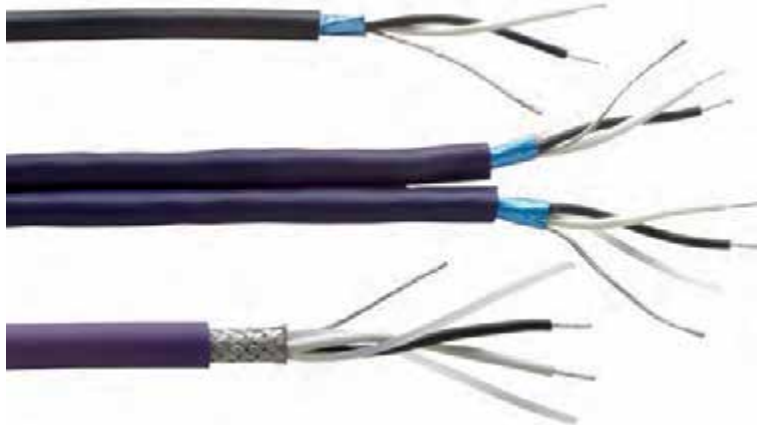
| Mechanical Specifications (Individual) | | | |
|--|------------|-------------------|-------------------------|
| Part Number | # of Pairs | Nominal OD | Approx. Weight |
| DS604 | 4 | 0.435" (11.05 mm) | 65 lbs/Mft (97 kg/km) |
| DS608 | 8 | 0.560" (14.22 mm) | 140 lbs/Mft (209 kg/km) |
| DS612 | 12 | 0.685" (17.40 mm) | 200 lbs/Mft (298 kg/km) |
| DS616 | 16 | 0.785" (19.94 mm) | 270 lbs/Mft (402 kg/km) |
| DS624 | 24 | 0.975" (24.77 mm) | 395 lbs/Mft (589 kg/km) |

| Electrical Specifications | | Attenuation (dB per 100 ft) | | | | | | |
|---------------------------|---|-----------------------------|------------|-------|-------|-------|--------|--------|
| Impedance | Capacitance | Cond. DCR | Drain DCR | 1 MHz | 3 MHz | 6 MHz | 12 MHz | 25 MHz |
| 110 Ω | 14 pF/ft Between Conductors, 27 pF/ft Between One Conductor and Other Tied to Shield | 38.5 Ω/Mft | 23.8 Ω/Mft | 1.25 | 1.85 | 2.40 | 3.16 | 4.20 |



Elco is a registered trademark of Elco Corporation. Neutrik is a registered trademark of Neutrik AG.

110 Ω Single-Pair DS Series: 24 AWG



The DS4 series of AES/EBU digital audio twisted-pair features an extended 25 MHz bandwidth, ultra-low attenuation, mechanical stability and a precision 110 Ω impedance. With the lowest available attenuation and precision impedance specifications, the DS4 series allows for longer runs of AES3 format digital audio over twisted-pair cable. The extended 25 MHz bandwidth is compliant with the AES3 standard for transmission of digital audio at sampling rates up to 192 kHz. The DS4 series is available in easy-to-terminate versions for permanent installation and an extra-flexible version for rack patching or portable cables.

Features & Benefits

- Precision 110 Ω Impedance
- 25 MHz Bandwidth for 192 kHz Sampling Rates
- Flexible
- Gas-Injected Foam Polyethylene or Foam Teflon® Dielectric
- Stabilizing Polyethylene Rod
- UL Rated Versions

Applications

- AES3 Digital Audio
- Extended Bandwidth Analog Audio
- Time Code
- Studio Interconnect, Permanent Installation or Portable Cables
- Ideal for Extended-Distance Runs

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Conductors | Dielectric/Color Code | Fillers | Shield | Drain | Jacket | UL Type | Approx. Weight |
|--|------------|-------------------------------------|----------------------------|---|------------------------------------|--------------|----------------------------|-----------------------------|---------|-----------------------|
| DS401 | 1 | 0.180" (4.57 mm) | 24 AWG (7x32) Stranded TC | Foam PE, 0.021" (0.533 mm) Wall/One White, One Black | Solid Virgin Polyethylene Rod | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Violet or Black | CMR | 13 lbs/Mft (19 kg/km) |
| <i>Wide Bandwidth Single-Pair: Permanent Install. Easy Strip & Termination</i> | | | | | | | | | | |
| DS401D | 2 | 0.370" x 0.180" (9.40 mm x 4.57 mm) | 24 AWG (7x32) Stranded TC | Foam PE, 0.021" (0.533 mm) Wall/One White, One Black | Solid Virgin Polyethylene Rod | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Violet with Red Stripe | CMR | 26 lbs/Mft (39 kg/km) |
| <i>Wide Bandwidth Dual-Pair: Permanent Install. Easy Strip & Termination</i> | | | | | | | | | | |
| DS401M | 1 | 0.235" (5.97 mm) | 24 AWG (41x40) Stranded TC | Foam PE, 0.021" (0.533 mm) Wall/One White, One Black | Solid Virgin Polyethylene Rods (2) | 95% TC Braid | 24 AWG (41x40) Stranded TC | Flexible Matte PVC, Violet | — | 27 lbs/Mft (40 kg/km) |
| <i>Wide Bandwidth Single-Pair: Extra Flexible</i> | | | | | | | | | | |
| DS401TS | 1 | 0.170" (4.32 mm) | 24 AWG (7x32) Stranded TC | Foam FEP, 0.021" (0.533 mm) Wall/One White, One Black | — | 100% Foil | 22 AWG (7x30) Stranded TC | Plenum PVC White | CMP | 13 lbs/Mft (19 kg/km) |
| <i>Wide Bandwidth Single-Pair: Plenum</i> | | | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Capacitance | Cond. DCR | Drain DCR | Attenuation (dB per 100 ft) | | | | |
|--------------|-----------|--|------------|------------|-----------------------------|-------|-------|--------|--------|
| | | | | | 1 MHz | 3 MHz | 6 MHz | 12 MHz | 25 MHz |
| DS401/DS401D | 110 Ω | 11 pF/ft Between Conductors, 21 pF/ft Between One Conductor and Other Tied to Shield | 23.8 Ω/Mft | 15.3 Ω/Mft | 0.90 | 1.30 | 1.60 | 2.15 | 4.10 |
| DS401M | 110 Ω | 11 pF/ft Between Conductors, 21 pF/ft Between One Conductor and Other Tied to Shield | 25.6 Ω/Mft | 25.6 Ω/Mft | 0.60 | 0.90 | 1.60 | 2.30 | 3.40 |
| DS401TS | 110 Ω | 11 pF/ft Between Conductors, 21 pF/ft Between One Conductor and Other Tied to Shield | 23.8 Ω/Mft | 15.3 Ω/Mft | 0.80 | 1.20 | 1.50 | 2.00 | 2.90 |



Cable Type

DWB110

DS401M

Length

—

In Feet

Connectors

Neutrik® Black & Gold Male XLRs, Male NC3MX-B and Female NC3FX-B

110 Ω Single-Pair DS Series: 26 AWG



The thin profile DS6 series of AES/EBU digital audio twisted-pair features low attenuation, an extended 25 MHz bandwidth and a precision 110 Ω impedance. The reduced diameter of this series makes it ideal for applications that do not require extended-distance runs such as rack wiring, patchbay harnessing or short-to-medium length permanent installation. The DS series is available in both an easy-to-terminate version for permanent installation and an extra-flexible version for rack patching or bantam/long-frame patchcords. In addition, the DS6 series is characterized up to 25 MHz for 192 kHz sampling rates.

Features & Benefits

- Thin Profile
- Flexible
- Precision 110 Ω Impedance
- 25 MHz Bandwidth for 192 kHz Sampling Rates
- Foam Polypropylene Dielectric
- Stabilizing Polyethylene Rod
- CM Rated Versions

Applications

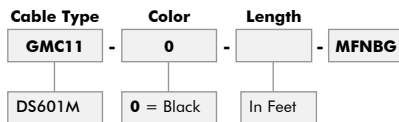
- AES3 Digital Audio
- Extended Bandwidth Analog Audio
- Time Code
- Studio Interconnect, Permanent Installation or Portable Cables
- Ideal for Rack Wiring or Patchcords

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Conductors | Dielectric Color Code | Fillers | Shield | Drain Wire | Jacket (Type, Colors) | UL Type | Approx. Weight |
|---------------------------------------|------------|-------------------------------------|--|---|------------------------------------|---------------------------------|---------------------------|----------------------------|---------|-----------------------|
| DS601 | 1 | 0.143" (3.63 mm) | 26 AWG (7x34) Stranded TC | Foam PP, 0.015" (0.381 mm) Wall/White & Black | Solid Virgin Polyethylene Rod | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Black | CM | 10 lbs/Mft (15 kg/km) |
| <i>Thin Profile 110 Ω Single-Pair</i> | | | | | | | | | | |
| DS601D | 2 | 0.143" x 0.290" (3.63 mm x 7.37 mm) | 26 AWG (7x34) Stranded TC | Foam PP, 0.015" (0.381 mm) Wall/White & Black | Solid Virgin Polyethylene Rod | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Black with Red Stripe | CM | 21 lbs/Mft (31 kg/km) |
| <i>Thin Profile 110 Ω Single-Pair</i> | | | | | | | | | | |
| DS601M | 1 | 0.199" (5.05 mm) | 26 AWG (30x40) Stranded Oxygen-Free BC | Foam PP, 0.016" (0.406 mm) Wall/White & Black | Solid Virgin Polyethylene Rods (2) | 98% Oxygen-Free BC Spiral Serve | — | Flexible Matte PVC, Black | — | 19 lbs/Mft (28 kg/km) |
| <i>Thin Profile 110 Ω Dual-Pair</i> | | | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Capacitance | Cond. DCR | Drain DCR | Attenuation (dB per 100 ft) | | | | |
|--------------|-----------|--|------------|------------|-----------------------------|-------|-------|--------|--------|
| | | | | | 1 MHz | 3 MHz | 6 MHz | 12 MHz | 25 MHz |
| DS601/DS601D | 110 Ω | 14 pF/ft Between Conductors, 27 pF/ft Between One Conductor and Other Tied to Shield | 38.5 Ω/Mft | 23.8 Ω/Mft | 1.25 | 1.85 | 2.40 | 3.16 | 4.20 |
| DS601M | 110 Ω | 14 pF/ft Between Conductors, 27 pF/ft Between One Conductor and Other Tied to Shield | 38.5 Ω/Mft | — | 0.65 | 1.50 | 2.70 | 4.60 | 7.80 |



Connectors
Neutrik® Black & Gold Male XLRs, Male NC3MX-B and Female NC3FX-B

Neutrik is a registered trademark of Neutrik AG.

VIDEO CABLES

| Page | Broadcast | Commercial A/V | Assemblies |
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In This Section:

- High-Definition SDI Coax
- Direct Burial HDTV Coax
- Miniature HDTV/SDI Coax
- Miniature HDTV/SDI Coax: Ultra-Lightweight
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- V-CON Multi-Conductor Video System:
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- Video Snake: High-Definition Miniature 23 AWG
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- Video Snake: High-Definition RG 6
- Video Snake: High-Definition RG 7
- Composite A/V: Thin Profile
- Composite A/V: Low Loss

PRECISION CABLING TECHNOLOGY THAT DELIVERS YOUR CLEAREST VISION



TactiCel™ Strong Cell Technology Dielectric

A proprietary gas-injection process blends nitrogen and plastic polymers to produce a dielectric that reduces the high-frequency attenuation, while maintaining uniform cell structure, low return loss and exceptional crush resistance.

Broadband RF/EMI Rejection

High-definition coaxial cables feature a dual foil and braid shield. This construction achieves broadband noise rejection from both low frequency EMI and high frequency RF, which can interfere with digital video transmission.

Flexible & Easy to Strip

Gepco® Brand coax features flexible and easy-to-strip compounds that streamline and simplify the installation process. In addition, most compounds are also UL rated, thereby allowing for use in permanent installations.

Crush-Resistant

The dielectric and jacket compounds used have exceptional crush resistance and aging properties. As a result, Gepco Brand coaxial cables are less susceptible to structural damage and deformation.

Precision-Drawn Conductor

Video-grade conductors feature precision diameters and an exceptionally smooth and uniform surface devoid of irregularities.

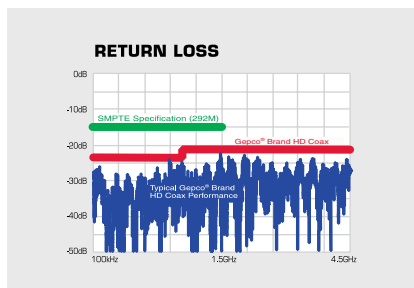
Industry-Leading Tolerances

Cable tolerances directly affect the electrical performance of the cable and quality of the connector termination. Gepco Brand coax is produced to industry-leading tolerances for all critical dimensions such as diameters, centering, ovality and concentricity.

Electrical Characteristics & Specifications

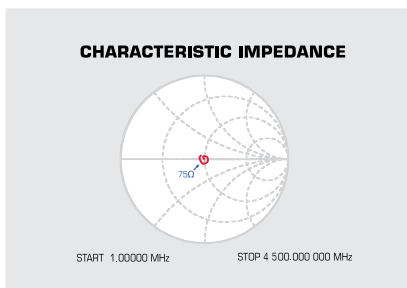
Meets or Exceeds Standards & 100% Sweep Tested

HD coax meets/exceeds SMPTE 424, 292 or 259 standards for digital video cable including specifications for return loss, impedance, attenuation and bandwidth performance.



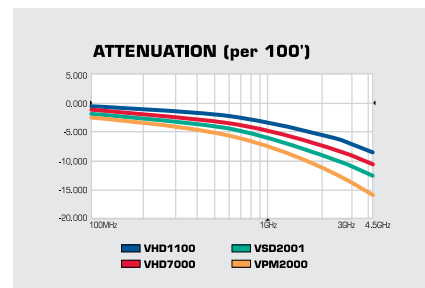
Precision Impedance Tolerances

All video cables feature a precision 75 Ω or 50 Ω impedance to ensure maximum signal transfer and impedance matching. All coaxial cables are produced within an exceptional +/- 2 Ω or +/- 3 Ω tolerance.



Low Attenuation

The precision-drawn conductor and proprietary gas-injected dielectric significantly reduce the attenuation of the cable, allowing for longer transmission distances with greater accuracy.



High-Definition SDI Coax



TactiCel™
Strong Cell Technology

The Gepco® Brand high-definition video coax series has been engineered to feature a 4.5 GHz bandwidth (for HDTV transmission), a TactiCel™ gas-injected foam dielectric, lower attenuation, more RG types, excellent crush resistance, easy termination and a flexible jacket. The TactiCel gas-injected dielectric and precision process control are critical factors in achieving superior electrical performance including faster velocity of propagation, tight impedance tolerance, low attenuation and low structural return loss across the entire 4.5 GHz bandwidth. Conductive elements consist of a stranded or precision-drawn solid copper center conductor and either a 92% or 95% braid with 100% foil shield for complete broadband shielding. The series contains a wide range of sizes to accommodate short-distance rack wiring or extended-distance point-to-point interconnect.

Features & Benefits

- Ultra-Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation
- TactiCel Gas-Injected Foam Dielectric
- 100% Sweep Tested
- Full-Copper Braid & Foil Shield

Applications

- High-Definition or Standard-Definition Serial Digital Video
- High-Resolution Analog Video
- Digital Audio (AES3id, SPDIF or Word Clock)

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Type, OD) | Shield | Jacket Type | Jacket Colors | UL Type | Approx. Weight |
|--|------------|------------------|----------------------------|---|-------------------------|-------------|---|---------|------------------------|
| VHD1300 | 1 | 0.400" (10.2 mm) | 13 AWG Solid BC | Gas-Injected Foam PE, 0.287" (7.29 mm) | 92% TC Braid, 100% Foil | PVC | Black, Purple | CMR | 92 lbs/Mft (137 kg/km) |
| <i>Extended-Distance 13 AWG HD Coax</i> | | | | | | | | | |
| VHD1100 | 1 | 0.405" (10.3 mm) | 14 AWG Solid BC | Gas-Injected Foam PE, 0.285" (7.24 mm) | 95% TC Braid, 100% Foil | PVC | Black, Others by Special Order | CMR | 76 lbs/Mft (113 kg/km) |
| <i>Extended-Distance RG 11 HD Coax</i> | | | | | | | | | |
| VHD1100F | 1 | 0.400" (10.2 mm) | 14 AWG (19x27) Stranded BC | Gas-Injected Foam PE, 0.287" (7.29 mm) | 92% TC Braid, 100% Foil | TPE | Purple | — | 75 lbs/Mft (112 kg/km) |
| <i>Extended-Distance RG 11 HD Coax: Flexible</i> | | | | | | | | | |
| VHD1100TK | 1 | 0.346" (8.79 mm) | 14 AWG Solid BC | Gas-Injected Foam FEP, 0.285" (7.24 mm) | 95% TC Braid, 100% Foil | PVDF | White, Others by Special Order | CMP | 78 lbs/Mft (116 kg/km) |
| <i>Extended-Distance RG 11 HD Coax: Plenum</i> | | | | | | | | | |
| VHD7000 | 1 | 0.320" (8.13 mm) | 16 AWG Solid BC | Gas-Injected Foam PE, 0.223" (5.66 mm) | 95% TC Braid, 100% Foil | PVC | Black, Others by Special Order | CMR | 50 lbs/Mft (75 kg/km) |
| <i>Extended-Distance RG 7 HD Coax</i> | | | | | | | | | |
| VSD2001 | 1 | 0.272" (6.91 mm) | 18 AWG Solid BC | Gas-Injected Foam PE, 0.180" (4.57 mm) | 95% TC Braid, 100% Foil | PVC | Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White | CMR | 42 lbs/Mft (63 kg/km) |
| <i>Low-Loss RG 6 HD Coax</i> | | | | | | | | | |
| VSD2001TS | 1 | 0.237" (6.02 mm) | 18 AWG Solid BC | Gas-Injected Foam FEP, 0.170" (4.32 mm) | 95% TC Braid, 100% Foil | Plenum PVC | White, Others by Special Order | CMP | 40 lbs/Mft (60 kg/km) |
| <i>Low-Loss RG 6 HD Coax: Plenum</i> | | | | | | | | | |
| VPM2000 | 1 | 0.242" (6.15 mm) | 20 AWG Solid BC | Gas-Injected Foam PE, 0.146" (3.71 mm) | 95% TC Braid, 100% Foil | PVC | Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White | CMR | 35 lbs/Mft (52 kg/km) |
| <i>Standard RG 59 HD Coax</i> | | | | | | | | | |
| VPM2000TS | 1 | 0.200" (5.08 mm) | 20 AWG Solid BC | Gas-Injected Foam FEP, 0.135" (3.43 mm) | 95% TC Braid, 100% Foil | Plenum PVC | White, Others by Special Order | CMP | 32 lbs/Mft (48 kg/km) |
| <i>Standard RG 59 HD Coax: Plenum</i> | | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Return Loss (100 kHz-1 GHz), | Capacitance | Cond. DCR per Mft | Shield DCR per Mft | Vel. of Prop. | Nominal Attenuation (dB per 100 ft) | | | | | | | | | | | | |
|-----------|-------------|------------------------------|-------------|-------------------|--------------------|---------------|-------------------------------------|---------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|---------|
| | | | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| VHD1300 | 75 Ω (+/-2) | >23 dB, >21 dB | 15.0 pF/ft | 2.0 Ω | 1.5 Ω | 89% | 0.13 | 0.27 | 0.41 | 0.95 | 1.31 | 1.79 | 2.10 | 3.09 | 3.61 | 4.43 | 5.43 | 6.29 | 8.22 |
| VHD1100 | 75 Ω (+/-2) | >23 dB, >21 dB | 16.2 pF/ft | 2.5 Ω | 1.5 Ω | 84% | 0.14 | 0.28 | 0.43 | 1.02 | 1.40 | 1.92 | 2.25 | 3.30 | 3.86 | 4.73 | 5.80 | 6.72 | 8.75 |
| VHD1100F | 75 Ω (+/-2) | >20 dB, >15 dB | 16.2 pF/ft | 2.7 Ω | 1.5 Ω | 85% | 0.07 | 0.28 | 0.46 | 1.12 | 1.54 | 2.11 | 2.50 | 3.70 | 4.32 | 5.34 | 6.61 | 7.73 | 10.15 |
| VHD1100TK | 75 Ω (+/-2) | >23 dB, >21 dB | 16.0 pF/ft | 2.5 Ω | 1.5 Ω | 84% | 0.14 | 0.25 | 0.40 | 1.04 | 1.45 | 2.20 | 2.68 | 4.20 | 5.23 | 6.80 | 9.07 | 10.14 | 13.30 |
| VHD7000 | 75 Ω (+/-2) | >23 dB, >21 dB | 16.2 pF/ft | 4.0 Ω | 1.9 Ω | 84% | 0.16 | 0.34 | 0.54 | 1.28 | 1.70 | 2.40 | 2.80 | 4.05 | 4.80 | 5.89 | 7.25 | 8.40 | 10.90 |
| VSD2001 | 75 Ω (+/-2) | >23 dB, >21 dB | 16.3 pF/ft | 6.4 Ω | 2.8 Ω | 83% | 0.22 | 0.43 | 0.70 | 1.60 | 2.10 | 2.96 | 3.40 | 4.95 | 5.87 | 7.30 | 9.13 | 10.65 | 13.28 |
| VSD2001TS | 75 Ω (+/-2) | >23 dB, >21 dB | 16.0 pF/ft | 6.4 Ω | 2.8 Ω | 84% | 0.22 | 0.45 | 0.73 | 1.72 | 2.35 | 3.36 | 3.98 | 6.08 | 7.23 | 9.13 | 11.52 | 13.64 | 16.98 |
| VPM2000 | 75 Ω (+/-2) | >23 dB, >21 dB | 16.3 pF/ft | 10.2 Ω | 3.5 Ω | 83% | 0.28 | 0.53 | 0.86 | 2.05 | 2.71 | 3.80 | 4.38 | 6.40 | 7.57 | 9.29 | 11.57 | 13.36 | 16.39 |
| VPM2000TS | 75 Ω (+/-2) | >23 dB, >21 dB | 16.0 pF/ft | 10.2 Ω | 3.5 Ω | 84% | 0.28 | 0.55 | 0.88 | 2.10 | 2.85 | 4.10 | 4.85 | 7.24 | 9.00 | 11.42 | 14.75 | 17.50 | 27.50 |



GVC - Cable Type - Color - Length - Connector Format

25 = VHD7000*
11 = VSD2001
6 = VPM2000

*Choice of Black Only for VHD7000.

0 = Black **5** = Green
1 = Brown **6** = Blue
2 = Red **7** = Violet
3 = Orange **8** = Gray
4 = Yellow **9** = White

In Feet

KB = Kings® 2065 Series 3 GHz True 75 Ω BNC
AB = ADC® 3 GHz True 75 Ω BNC
CF = Canare® 75 Ω F-Type Connector
CR = Canare® 200 MHz Crimp RCA

*No suffix will designate Gepco® Brand BNCs.
**Boots standard with above connector options.

Kings is a registered trademark of Kings Electronics Company, Inc. ADC is a registered trademark of ADC Telecommunication, Inc. Canare is a registered trademark of Canare Electric Co., Ltd.

Direct Burial HDTV Coax



The Gepco® Brand high-definition video coax series for direct burial features the same precision center conductor, TactiCel™ gas-injected foam dielectric and broadband shielding as the riser rated versions, but with a polyethylene jacket and water blocking tape. The polyethylene jacket is exceptionally puncture-resistant and inert, while the water blocking tape absorbs moisture and prevents migration. As with all Gepco Brand high-definition cables, the direct burial series has a 4.5 GHz bandwidth, low attenuation and return loss and meets or exceeds SMPTE standards for uncompressed high-definition video interconnects.

Features & Benefits

- Polyethylene Jacket with Water Blocking Tape
- Ultra-Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation
- TactiCel Gas-Injected Foam Dielectric
- 100% Sweep Tested
- Full Copper Braid & Foil Shield

Applications

- Direct Burial
- High-Definition or Standard-Definition Serial Digital Video
- High-Resolution Analog Video
- Digital Audio (AES3id, SPDIF or Word Clock)

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Type, OD) | Shield | Jacket Type | Jacket Colors | Approx. Weight |
|--|------------|------------------|-----------------|--|-------------------------|-----------------------------|---------------|------------------------|
| VHD1100PEF | 1 | 0.405" (10.3 mm) | 14 AWG Solid BC | Gas-Injected Foam PE, 0.285" (7.24 mm) | 95% TC Braid, 100% Foil | PE with Water Blocking Tape | Black | 78 lbs/Mft (116 kg/km) |
| <i>Low-Loss RG 11 HD Coax: Direct Burial</i> | | | | | | | | |
| VSD2001PEF | 1 | 0.272" (6.91 mm) | 18 AWG Solid BC | Gas-Injected Foam PE, 0.180" (4.57 mm) | 95% TC Braid, 100% Foil | PE with Water Blocking Tape | Black | 40 lbs/Mft (60 kg/km) |
| <i>Low-Loss RG 6 HD Coax: Direct Burial</i> | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz) | Capacitance | Cond. DCR per Mft | Shield DCR per Mft | Vel. of Prop. | Nominal Attenuation (dB per 100 ft) | | | | | | | | | | | | |
|------------|-------------|--|-------------|-------------------|--------------------|---------------|-------------------------------------|---------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|---------|
| | | | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| VHD1100PEF | 75 Ω (+/-2) | >23 dB, >21 dB | 16.2 pF/ft | 2.5 Ω | 1.5 Ω | 84% | 0.14 | 0.28 | 0.43 | 1.02 | 1.40 | 1.92 | 2.25 | 3.30 | 3.86 | 4.73 | 5.80 | 6.72 | 8.75 |
| VSD2001PEF | 75 Ω (+/-2) | >23 dB, >21 dB | 16.3 pF/ft | 6.4 Ω | 2.8 Ω | 83% | 0.22 | 0.43 | 0.70 | 1.60 | 2.10 | 2.96 | 3.40 | 4.95 | 5.87 | 7.30 | 9.13 | 10.65 | 13.28 |

P. 800.966.0069 P. 847.795.9555 F. 847.795.8770 www.gepco.com

Miniature HDTV/SDI Coax



TactiCel™
Strong Cell Technology

Features & Benefits

Thin Profile
Low Attenuation & Return Loss
Precision 75 Ω Impedance
4.5 GHz Bandwidth for HDTV (VDM230 & VDM230TS)
High Velocity of Propagation
Stranded or Solid Conductor
TactiCel Gas-Injected Foam Dielectric
Full-Copper Braid & Foil Shield
100% Sweep Tested
Low Weight

Applications

High-Definition Serial Digital Video (VDM230 & VDM230TS)
Standard-Definition Serial Digital Video
Digital Audio (AES3id or SPDIF)
High-Resolution Analog Video
Ideal for Remote Broadcast Interconnect

The Gepco® Brand miniature coax series features exceptionally low attenuation for its type while maintaining a reduced size and weight. All utilize a pure-copper center conductor, low-loss foam dielectric and broadband foil and braid shielding. VDM230 features the same TactiCel™ gas-injected foam dielectric found in the HD coax series, making it ideal for standard-definition digital video, AES3id digital audio or high-definition digital video interconnect within mobile production trucks. VDM250 and VDM250D are recommended for short distance, low bit-rate digital, analog video, or SVHS applications. The VDM230TS is recommended for plenum installation.

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Type, OD) | Shield | Jacket Type | Jacket Colors | UL Type | Approx. Weight |
|---|------------|-------------------------------------|---------------------------|---|-------------------------|--------------------|---|---------|-----------------------|
| VDM230 | 1 | 0.164" (4.17 mm) | 23 AWG Solid BC | Gas-Injected Foam PE, 0.100" (2.54 mm) | 95% TC Braid, 100% Foil | PVC | Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White | CMR | 18 lbs/Mft (27 kg/km) |
| <i>Miniature HD/SDI Coax: 23 AWG Solid</i> | | | | | | | | | |
| VDM230TS | 1 | 0.164" (4.17 mm) | 23 AWG Solid BC | Gas-Injected Foam FEP, 0.099" (2.51 mm) | 95% TC Braid, 100% Foil | Plenum PVC | Black, White | CMP | 22 lbs/Mft (33 kg/km) |
| <i>Miniature HD/SDI Coax: 23 AWG Solid Plenum</i> | | | | | | | | | |
| VDM250 | 1 | 0.154" (3.91 mm) | 25 AWG (7x33) Stranded BC | Gas-Injected Foam PE, 0.099" (2.51 mm) | 95% TC Braid, 100% Foil | PVC | Black | CMR | 16 lbs/Mft (24 kg/km) |
| <i>Miniature SDI Coax: 25 AWG Stranded</i> | | | | | | | | | |
| VDM250D | 2 | 0.154" x 0.315" (3.91 mm x 8.00 mm) | 25 AWG (7x33) Stranded BC | Gas-Injected Foam PE, 0.099" (2.51 mm) | 95% TC Braid, 100% Foil | Flexible Matte PVC | Black | — | 33 lbs/Mft (49 kg/km) |
| <i>Miniature SDI or SVHS Coax: Dual 25 AWG Stranded</i> | | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz) | Capacitance | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | | | | | |
|----------|-------------|--|-------------|--------------------------------------|---------------|-----------------------------|---------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|---------|
| | | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| VDM230 | 75 Ω (+/-2) | >23 dB, >21 dB | 16.5 pF/ft | 20.3 Ω/2.7 Ω | 82% | 0.38 | 0.78 | 1.19 | 3.01 | 3.80 | 5.40 | 6.18 | 9.30 | 10.47 | 12.97 | 16.00 | 18.48 | 22.8 |
| VDM230TS | 75 Ω (+/-2) | >23 dB, >21 dB | 16.5 pF/ft | 20.3 Ω/2.7 Ω | 82% | 0.38 | 0.78 | 1.19 | 3.01 | 3.80 | 5.40 | 6.18 | 9.30 | 10.47 | 12.97 | 16.00 | 18.48 | 22.8 |
| VDM250 | 75 Ω (+/-3) | >21 dB, — | 16.5 pF/ft | 30.0 Ω/4.8 Ω | 82% | 0.47 | 0.91 | 1.43 | 3.45 | 4.61 | 6.46 | 7.48 | 10.80 | 12.80 | — | — | — | — |
| VDM250D | 75 Ω (+/-3) | >21 dB, — | 16.5 pF/ft | 30.0 Ω/4.8 Ω | 82% | 0.47 | 0.91 | 1.43 | 3.45 | 4.61 | 6.46 | 7.48 | 10.80 | 12.80 | — | — | — | — |



| GVC | Cable Type | Color | Length | Connector Format |
|-----|--|---|---------|--|
| | 17 = VDM230 17P = VDM230TS* 15 = VDM250* | 0 = Black 1 = Brown 2 = Red 3 = Orange 4 = Yellow 5 = Green 6 = Blue 7 = Violet 8 = Gray 9 = White | In Feet | KB = Kings® 2065 Series 3 GHz True 75 Ω BNC AB = ADC® 3 GHz True 75 Ω BNC CF = Canare® 75 Ω F-Type Connector CR = Canare® 200 MHz Crimp RCA *No suffix will designate Gepco® Brand BNCs. |

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Miniature HDTV/SDI Coax: Ultra-Lightweight



The Gepco® Brand Ultra-Lightweight Miniature Coax is ideal for mobile production trucks where weight and performance are critical. Maintaining exceptionally low attenuation, the VDM230LT design features a low-loss gas-injected foam dielectric created with Gepco's new TactiCel™ Strong Cell Technology, providing improved crush resistance. For reduced weight, the VDM230LT utilizes a copper center conductor and a 100% bonded foil with a high-strength, ultra-lightweight liquid crystal polymer braid shielding. Maintaining the same dimensions as Gepco's VDM230, VDM230LT is compatible with the same connectors and crimp tools previously used for VDM230. This Gepco Ultra-Lightweight Miniature Coax solution is ideal for high-definition digital video, AES3id digital audio and standard-definition digital video interconnect within mobile production trucks.

Features & Benefits

- Immense Weight Savings per Mobile Production Truck
- Equal or Better Performance Compared to Standard VDM230 Coax
- Thin Profile (Same Dimension as VDM230)
- Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation

Applications

- High Definition Serial Digital Video
- Standard Definition Serial Digital Video
- High Resolution Analog Video
- Digital Audio (AES3id or SPDIF)
- Ideal for Mobile Production Trucks

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Type, OD) | Shield | Jacket Type | Jacket Colors | Max Pull Tension | BNC Connector Pull-Off Strength | Cable Cold Bend (10x Mandrel) | Bending Endurance/ Twisting Endurance† | UL Type | Approx. Weight |
|----------|------------|-----------------|-----------------------------------|--|--|-------------|---|------------------|---------------------------------|-------------------------------|--|---------|-----------------------|
| VDM230LT | 1 | 0.164" (4.2 mm) | 23 AWG Solid BC, 0.023", (0.6 mm) | Gas-Injected Foam PE, 0.100", (2.5 mm) | 100% Bonded Foil, Liquid Crystal Polymer Braid | PVC | Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White | 36 lbs (16.3 kg) | 43.6 lbs (19.8 kg) Average | Passed at -30°C | Passed – No Cracks in Shield Tape | CM | 11 lbs/Mft (16 kg/km) |

Ultra-Lightweight Miniature HDTV/SDI Coax: 23 AWG Solid

Electrical Specifications

| Impedance | Transfer Impedance | Return Loss (100 kHz-1.6 GHz), (1.6 GHz-4.5 GHz), Capac. | Cond. DCR per Mft (305 m) | Shield DCR per Mft (305 m) | Vel. of Prop. | Nominal Attenuation – db per 100 ft (30.5 m) | | | | | | | | | | | | | |
|-------------|------------------------------|--|---------------------------|----------------------------|---------------|--|---------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|---------|-------|
| | | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz | |
| 75 Ω (+/-2) | 359 mΩ/m (VDM230 - 505 mΩ/m) | >23 dB, >21 dB | 16.5 pF/ft (54 pF/m) | 20.3 Ω/Mft | 9.7 Ω/Mft | 82% | 0.38 | 0.78 | 1.19 | 3.01 | 3.80 | 5.40 | 6.18 | 9.30 | 10.47 | 12.97 | 16.00 | 18.48 | 22.80 |

LOSE WEIGHT FAST

SAVE 2,000 lbs per Full-Size Truck and Ease Truck Weight Restrictions
Save Fuel and Delivery Costs

39% weight reduction

| Model | Weight in lbs. / 1000 ft | Weight in kg / km |
|----------|--------------------------|-------------------|
| VDM230 | 18 lbs/1000 ft | 27 kg/km |
| VDM230LT | 11 lbs/1000 ft | 16 kg/km |

Extra-Flexible High-Definition SDI Coax



TactiCel™
Strong Cell Technology

The VHD2000M and VHD2001M are extra-flexible, low-loss coaxial cables with a 4.5 GHz bandwidth for uncompressed HDTV transmission. They feature a precision stranded center conductor, a unique double-braid shield and a matte PVC jacket to achieve exceptional flexibility and flex-life without compromising the electrical performance required for HD video. For the insulating dielectric, VHD2000M and VHD2001M utilize a TactiCel™ crush-resistant, gas-injected foam dielectric that reduces attenuation and extends the operating bandwidth. As with all other Gepco® Brand HD coax cables, every critical electrical and mechanical characteristic is manufactured to precision tolerances.

Features & Benefits

- Extra Flexible
- 4.5 GHz Bandwidth
- Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- TactiCel Gas-Injected Foam Dielectric
- Stranded Center Conductor
- Double-Braid Shield
- 100% Sweep Tested
- Matte PVC Flexible Jacket

Applications

- High-Definition Video
- SDI Serial Digital Video
- Digital Audio (AES3id or SPDIF)
- High-Resolution Analog Video
- Portable Cables
- Patchcords

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Type, OD) | Shield | Jacket Type | Jacket Colors | Approx. Weight |
|------------------------------|------------|------------------|--------------------------------------|--|----------------------------|--------------|---|-----------------------|
| VHD2000M | 1 | 0.242" (6.15 mm) | 21 AWG (19x34) Stranded BC (Compact) | Gas-Injected Foam PE, 0.146" (3.71 mm) | 95% TC Braid, 95% TC Braid | Flexible PVC | Black, Red, Orange, Yellow, Green, Blue, Violet | 33 lbs/Mft (49 kg/km) |
| Extra-Flexible RG 59 HD Coax | | | | | | | | |
| VHD2001M | 1 | 0.275" (6.99 mm) | 19 AWG (19x32) Stranded BC (Compact) | Gas-Injected Foam PE, 0.182" (4.62 mm) | 95% TC Braid, 95% TC Braid | Flexible PVC | Black | 45 lbs/Mft (67 kg/km) |
| Extra-Flexible RG 6 HD Coax | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz) | Capacitance | Cond. DCR per Mft | Shield DCR per Mft | Vel. of Prop. | Nominal Attenuation (dB per 100 ft) | | | | | | | | | | | | |
|----------|-------------|--|-------------|-------------------|--------------------|---------------|-------------------------------------|---------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|---------|
| | | | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| VHD2000M | 75 Ω (+/-3) | >20 dB, >15 dB | 17 pF/ft | 14.3 Ω | 2.4 Ω | 78% | 0.25 | 0.52 | 0.91 | 2.51 | 3.50 | 5.05 | 5.92 | 8.60 | 10.35 | 13.05 | 16.50 | 19.60 | 24.80 |
| VHD2001M | 75 Ω (+/-3) | >20 dB, >15 dB | 17 pF/ft | 8.5 Ω | 1.7 Ω | 78% | 0.22 | 0.50 | 0.73 | 2.04 | 2.81 | 4.05 | 4.76 | 7.00 | 8.28 | 10.47 | 13.22 | 15.63 | 19.85 |



| GVC | Cable Type | Color | Length | Connector Format |
|-----|---------------|---|---------|--|
| | 34 = VHD2000M | 0 = Black 2 = Red 3 = Orange 4 = Yellow 5 = Green 6 = Blue 7 = Violet | In Feet | KB = Kings® 2065 Series 3 GHz True 75 Ω BNC AB = ADC® 3 GHz True 75 Ω BNC CF = Canare® 75 Ω F-Type Connector CR = Canare® 200 MHz Crimp RCA |

*No suffix will designate Gepco® Brand BNCs.
**Boots standard with above connector options.



| G | Connector Format | Color | Length |
|---|---|---|---------|
| | VPC = Canare® VWP High-Definition Video Patch Plug WECO Type MVPC = Canare® MVP High-Definition Video Patch Plug Midsized Type | 0 = Black 2 = Red 3 = Orange 4 = Yellow 5 = Green 6 = Blue 7 = Violet | In Feet |

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Extra-Flexible Analog Coax



TactiCel™
Strong Cell Technology

An extremely flexible, low-loss precision video coax, the VE61859M features the same TactiCel™ gas-injected foam dielectric as the high-definition coax series. Unique to VE61859M is a stranded center conductor, single bare-copper braid and matte PVC jacket for increased flexibility and flex-life. VE61859M is ideal for patchcords or any other application that requires an extremely flexible low-loss coax.

Features & Benefits

- Extra-Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 1 GHz Bandwidth
- High Velocity of Propagation
- Extra Flexible
- TactiCel Gas-Injected Foam Dielectric
- Stranded Center Conductor
- Full-Copper Braid Shield
- 100% Sweep Tested
- Matte PVC Flexible Jacket

Applications

- High-Resolution Analog Video
- Digital Audio (AES3id or SPDIF)
- Studio Interconnect
- Ideal for Portable Cables or Video Patchcords

| Mechanical Specifications | | | | | | | |
|---------------------------|------------|---------------------|---|---|--------------|------------------------------|--------------------------|
| Part # | # of Cond. | Nominal OD | Conductors | Insulation (Type, Wall) | Shield | Jacket (Type, Colors) | Approx. Weight |
| VE61859M | 1 | 0.242" (6.15 mm) | 21 AWG (19x34) Stranded BC (Compact) | Gas-Injected Foam PE, 0.146" (3.71 mm) | 95% BC Braid | Flexible Matte PVC, Black | 60 lbs/Mft (89 kg/km) |

| Electrical Specifications | | | | Attenuation (dB per 100 ft) | | | | | | | | | | |
|---------------------------|--------------------------------|-------------|--|-----------------------------|----------|-----------|-----------|------------|------------|------------|------------|------------|----------|--|
| Impedance | Return Loss (100 kHz-1 GHz) | Capacitance | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | 1 MHz | 10 MHz | 50 MHz | 100 MHz | 200 MHz | 400 MHz | 700 MHz | 900 MHz | 1 GHz | |
| 75 Ω (+/-3) | >20 dB | 17.0 pF/ft | 15.3 Ω/2.7 Ω | 83% | 0.26 | 0.91 | 2.09 | 3.00 | 4.33 | 6.29 | 8.63 | 10.05 | 10.64 | |

Precision Video Coax



The original coax standard for broadcast or production quality analog video applications, the Gepco® Brand precision coax series features a 20 AWG solid (or 22 AWG stranded) center conductor and solid polyethylene dielectric for low attenuation, tight tolerance 75 Ω impedance and 1 GHz bandwidth. The precision coax series is ideal when extra durability is desired or for existing installations that still utilize the precision cable format. For digital video or new analog video installations, the Gepco® Brand high-definition coax series is recommended due to the increased bandwidth, lower attenuation and greater ease of termination.

Features & Benefits

- Extra-Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 1 GHz Bandwidth
- Extremely Durable
- Pure Copper Conductor
- Solid Polyethylene Dielectric
- Double Braid Shields
- 100% Sweep Tested

Applications

- High-Resolution Analog Video
- Studio Interconnect or Permanent Installation (VP618PE)
- Ideal for Portable Cables or Video Patching (VP618M)

Mechanical Specifications (Individual)

| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Type, OD) | Shield | Jacket (Type, Colors) | Approx. Weight |
|---------|---------------------------------------|------------------|--------------------------------------|-----------------------|----------------------------|---------------------------|------------------------|
| VP618PE | 1 | 0.304" (7.72 mm) | 20 AWG Solid BC | PE, 0.198" (5.03 mm) | Double Braid: 98% & 96% TC | PE, Black | 75 lbs/Mft (112 kg/km) |
| | 20 AWG Precision Coax | | | | | | |
| VP618M | 1 | 0.304" (7.72 mm) | 22 AWG (19x34) Stranded BC (Compact) | PE, 0.192" (4.88 mm) | Double Braid: 95% & 93% TC | Flexible Matte PVC, Black | 78 lbs/Mft (116 kg/km) |
| | 22 AWG Precision Coax: Extra Flexible | | | | | | |

Electrical Specifications

| Part # | Impedance | Return Loss (100 kHz-1 GHz) | Capacitance | Cond DCR per Mft/ Shield DCR per Mft | Vel. of Prop | Attenuation (dB per 100 ft) | | | | | | | | |
|---------|-------------|-----------------------------|-------------|--------------------------------------|--------------|-----------------------------|--------|--------|---------|---------|---------|---------|---------|-------|
| | | | | | | 1 MHz | 10 MHz | 50 MHz | 100 MHz | 200 MHz | 400 MHz | 700 MHz | 900 MHz | 1 GHz |
| VP618PE | 75 Ω (+/-3) | >23 dB | 20.3 pF/ft | 10.2 Ω/1.1 Ω | 66% | 0.25 | 0.78 | 1.91 | 2.70 | 3.82 | 5.40 | 7.32 | 8.74 | 9.20 |
| VP618M | 75 Ω (+/-3) | >23 dB | 20.3 pF/ft | 14.3 Ω/1.1 Ω | 66% | 0.28 | 0.91 | 2.14 | 3.22 | 4.70 | 7.12 | 9.90 | 11.1 | 12.1 |

Component RGB: Miniature Plenum



The Gepco® Brand miniature plenum rated RGB coax snake utilizes specialized plenum PVC and other proprietary compounds for improved flexibility compared to conventional high-temperature types. The extra-small diameter coaxials facilitate easy termination to 15-pin high-density D-sub connectors or BNC-type connectors for component breakout. This plenum snake is ideal for projection systems and VGA cables.

Features & Benefits

- Thin Profile
- Precision 75 Ω Impedance
- High Velocity of Propagation
- Flexible
- TactiCel™ Gas-Injected Foam Dielectric
- Copper Serve & Foil Shield
- Plenum PVC Master Jacket
- 100% Sweep Tested
- CMP Plenum Rated

Applications

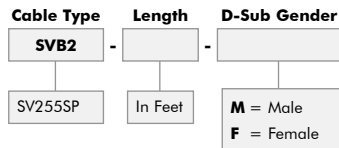
- High-Resolution RGB Component Analog Video
- Permanent Installation

| Mechanical Specifications (Series) | | | | | |
|------------------------------------|----------------------------|--------------------------------|---------------------------------|-------------------|---------|
| Conductors | Insulation (Type, OD) | Shield | Coax Jacket (Type, OD) | Master Jacket | UL Type |
| 25 AWG Solid BC | Foam FEP, 0.074" (1.88 mm) | 100% Foil, 95% TC Spiral Serve | Fluoropolymer, 0.106" (2.69 mm) | Plenum PVC, White | CMP |

| Mechanical Specifications (Individual) | | | | |
|--|---------------|---------------------------------|------------------|------------------------|
| Part # | # of Coaxials | Color Code | Nominal OD | Approx. Weight |
| SV253SP | 3 | Red, Green, Blue | 0.263" (6.68 mm) | 47 lbs/Mft (73 kg/km) |
| SV254SP | 4 | Red, Green, Blue, Yellow | 0.283" (7.19 mm) | 57 lbs/Mft (98 kg/km) |
| SV255SP | 5 | Red, Green, Blue, Yellow, White | 0.315" (8.00 mm) | 68 lbs/Mft (124 kg/km) |

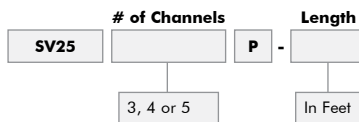
| Electrical Specifications | | | | | | | | | |
|---------------------------|--|-------------|----------------------|-----------------------|---------------------|-----------------------------|------------|------------|----------|
| Impedance | Return Loss (1 MHz-455 MHz), (455 MHz-1 GHz) | Capacitance | Cond. DCR per Mft | Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | |
| | | | | | | 100 MHz | 200 MHz | 400 MHz | 1 GHz |
| 75 Ω (+/-3) | >20 dB, >15 dB | 16.0 pF/ft | 31.0 Ω | 18.0 Ω | 83% | 0.50 | 1.23 | 1.80 | 4.30 |

VGA Breakout



Connectors
High-Density 15-Pin D-Sub Male or Female to (5) ADC® 3 GHz True 75 Ω BNCs (BNC-16) with Shrink Tube Strain Relief

Component RGB



Connectors
ADC® 3 GHz True 75 Ω BNCs (BNC-16) with Shrink Tube Strain Relief

ADC is a registered trademark of ADC Telecommunication, Inc.

Component RGB: Miniature 25 AWG Stranded



TactiCel™
Strong Cell Technology

This Gepco® Brand miniature RGB coax snake utilizes precision low-loss VDM250 type miniature coax. The 25 AWG stranded conductors with high velocity TactiCel™ gas-injected foam dielectric yield a 1 GHz bandwidth and exceptionally low attenuation for its size. The tight-angled 95% braid and 100% non-bonded foil shield are easy to terminate and achieve exceptional broadband noise rejection. The Gepco Brand riser GEP-FLEX master jacket is flexible, durable, and UL rated allowing for use in permanent installation or portable applications. This RGB coax snake is ideal for component analog, multi-channel analog or multi-channel standard-definition digital video interconnect.

Features & Benefits

- Thin Profile
- Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 1 GHz Bandwidth
- High Velocity of Propagation
- Extra Flexible
- Full Copper Braid & Foil Shield
- 100% Sweep Tested
- CM Riser Rated

Applications

- RGB Component Analog Video
- Standard-Definition Serial Digital Video
- Digital Audio (AES3id or SPDIF)
- Studio Interconnect, Portable Snakes or Permanent Installation

Mechanical Specifications (Series)

| Conductors | Insulation (Type, OD) | Shield | Coax Jacket (Type, OD) | Master Jacket | UL Type |
|---------------------------|--|-------------------------|------------------------|---------------------|---------|
| 25 AWG (7x33) Stranded BC | Gas-Injected Foam PE, 0.099" (2.51 mm) | 95% TC Braid, 100% Foil | PVC, 0.154" (3.91 mm) | GEP-FLEX TPE, Black | CM |

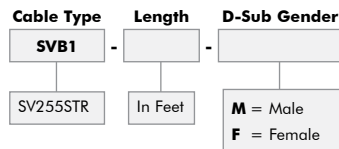
Mechanical Specifications (Individual)

| Part # | # of Coaxials | Color Code | Nominal OD | Approx. Weight |
|----------|---------------|--|------------------|-------------------------|
| SV253STR | 3 | Red, Green, Blue | 0.460" (11.7 mm) | 80 lbs/Mft (119 kg/km) |
| SV254STR | 4 | Red, Green, Blue, Yellow | 0.470" (11.9 mm) | 110 lbs/Mft (164 kg/km) |
| SV255STR | 5 | Red, Green, Blue, Yellow, White | 0.560" (14.2 mm) | 130 lbs/Mft (194 kg/km) |
| SV256STR | 6 | Red, Green, Blue, Yellow, White, Black | 0.575" (14.6 mm) | 160 lbs/Mft (238 kg/km) |

Electrical Specifications

| Impedance | Return Loss (100 kHz-1 GHz) | Capacitance | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | |
|-------------|--------------------------------|-------------|--|---------------------|-----------------------------|------------|-----------|-------------|------------|------------|------------|------------|----------|
| | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz |
| 75 Ω (+/-3) | >21 dB | 16.5 pF/ft | 30.0 Ω/4.8 Ω | 82% | 0.47 | 0.91 | 1.43 | 3.45 | 4.61 | 6.46 | 7.48 | 10.80 | 12.80 |

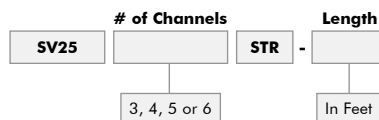
VGA Breakout



Connectors

High-Density 15-Pin D-Sub Male or Female to (5) Kings® 3 GHz True 75 Ω BNCs (2065-11-9) with Rubber Boots

Component RGB



Connectors

Kings® 3 GHz True 75 Ω High-Definition BNCs (2065-11-9) with Rubber Boots

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Component RGB: Miniature 25 AWG Solid



This Gepco® Brand miniature RGB coax snake utilizes a precision low-loss 25 AWG solid miniature coax. The precision-drawn conductor with high velocity foam TactiCel™ gas-injected foam dielectric yields a 3 GHz bandwidth and exceptionally low attenuation for its size. The tight-angled 95% braid and 100% non-bonded foil shield are easy to terminate and achieve exceptional broadband noise rejection. The riser rated PVC master jacket is flexible, easy to pull through conduit and UL rated allowing for use in permanent installation or portable applications. This RGB coax snake is ideal for component analog, multi-channel analog or multi-channel standard-definition digital video interconnect.

Features & Benefits

- Ultra-Thin Profile
- Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 3 GHz Bandwidth
- High Velocity of Propagation
- Flexible
- Full Copper Braid & Foil Shield
- 100% Sweep Tested
- CMR Riser Rated

Applications

- RGB Component Analog Video
- Standard-Definition Serial Digital Video
- Digital Audio (AES3id or SPDIF)
- Studio Interconnect, Portable Snakes or Permanent Installation

Mechanical Specifications (Series)

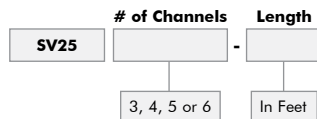
| Conductors | Insulation (Type, OD) | Shield | Coax Jacket (Type, OD) | Master Jacket | UL Type |
|-----------------|--|-------------------------|------------------------|---------------|---------|
| 25 AWG Solid BC | Gas-Injected Foam PE, 0.074" (1.88 mm) | 95% TC Braid, 100% Foil | PVC, 0.115" | PVC, Black | CMR |

Mechanical Specifications (Individual)

| Part # | # of Coaxials | Color Code | Nominal OD | Approx. Weight |
|---------|---------------|--|------------------|-------------------------|
| SV253SR | 3 | Red, Green, Blue | 0.325" (8.26 mm) | 68 lbs/Mft (101 kg/km) |
| SV254SR | 4 | Red, Green, Blue, Yellow | 0.365" (9.27 mm) | 79 lbs/Mft (118 kg/km) |
| SV255SR | 5 | Red, Green, Blue, Yellow, White | 0.405" (10.3 mm) | 90 lbs/Mft (134 kg/km) |
| SV256SR | 6 | Red, Green, Blue, Yellow, White, Black | 0.440" (11.2 mm) | 105 lbs/Mft (156 kg/km) |

Electrical Specifications

| Impedance | Return Loss (100 kHz-3 GHz) | Capacitance | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | | | |
|-------------|-----------------------------|-------------|--------------------------------------|---------------|-----------------------------|---------|--------|----------|---------|---------|---------|---------|-------|----------|-------|
| | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 2.25 GHz | 3 GHz |
| 75 Ω (+/-3) | >15 dB | 17 pF/ft | 31.0 Ω/8.0 Ω | 81% | 0.36 | 0.68 | 1.14 | 3.09 | 4.28 | 6.12 | 7.10 | 10.21 | 12.17 | 18.9 | 22.1 |



Connectors
Kings® 3 GHz True 75 Ω High-Definition BNCs (2065-11-9) with Rubber Boots

Kings is a registered trademark of Kings Electronics Company, Inc.



Component RGB with 2 Audio Pairs



The hybrid design of the Gepco® Brand RGB62 series allows for two channels of balanced audio to be run with component video, sync and composite video within a single cable. The non-plenum version is constructed from low-loss, solid, 4.5 GHz coaxial elements, while the plenum version is constructed from stranded, 1 GHz miniature coaxial elements. Each audio pair features two twisted 22 AWG conductors with a foil shield, drain wire and color coded jacket. The outer jacket is extruded from an extra-flexible, CM rated TPE or a flexible and easy-to-strip plenum PVC.

Features & Benefits

- Six Coaxial Elements
- Two Balanced Audio Pairs
- 4.5 GHz Coaxial Bandwidth (Non-Plenum Version)
- Flexible Master Jacket
- 100% Sweep Tested
- UL Rated CM or Plenum

Applications

- Component Video & Audio Within a Single Cable
- Permanent Installation
- Portable Applications

Overall Specifications

| Part # | # of Coaxials | # of Audio Pairs | Overall Jacket (Type, OD) | UL Type | Approx. Weight |
|---------|--|------------------|--------------------------------|---------|------------------------|
| RGB62 | 6 | 2 | Flexible TPE, 0.430" (10.9 mm) | CM | 85 lbs/Mft (127 kg/km) |
| | Component RGBHVC with 2 Balanced Audio Pairs | | | | |
| RGB62TS | 6 | 2 | Plenum PVC, 0.370" (9.40 mm) | CL2P | 68 lbs/Mft (101 kg/km) |
| | Component RGBHVC with 2 Balanced Audio Pairs: Plenum | | | | |

Coaxial Element Mechanical Specifications

| Part # | Conductors (Type, DCR) | Insulation (Type, OD) | Shield | Jacket (Type, OD) | Color Code | Impedance | Vel. of Prop. |
|---------|---------------------------------------|--|-------------------------|------------------------------|--|-----------|---------------|
| RGB62 | 26 AWG Solid BC, 40.5 Ω/Mft | Gas-Injected Foam PE, 0.074" (1.88 mm) | 100% Foil, 95% TC Braid | PVC, 0.114" (2.90 mm) | Red, Green, Blue, Black, Yellow, White | 75 Ω | 80% |
| RGB62TS | 26 AWG (7x34) Stranded TC, 38.5 Ω/Mft | Foam FEP, 0.072" (1.83 mm) | 100% Foil, 95% TC Braid | Plenum PVC, 0.102" (2.59 mm) | Red, Green, Blue, Black, Yellow, White | 75 Ω | 85% |

Coaxial Element Electrical Specifications

| Part # | Impedance | Return Loss | Capac. | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | | | | | |
|---------|-------------|--|------------|--------------------------------------|---------------|-----------------------------|----------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|---------|
| | | | | | | 1 MHz | 33.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| RGB62 | 75 Ω (+/-3) | 100 kHz-1 GHz: >23 dB 1 GHz-4.5 GHz: >19 dB | 16.8 pF/ft | 40.5 Ω/7.0 Ω | 80% | 0.51 | 1.12 | 1.85 | 4.35 | 5.74 | 7.95 | 9.25 | 13.20 | 15.65 | 19.28 | 23.73 | 27.50 | 34.50 |
| RGB62TS | 75 Ω (+/-3) | 100 kHz-455 MHz: >20 dB 455 MHz-1 GHz: >15 dB | 16.0 pF/ft | 38.5 Ω/18.0 Ω | 85% | 0.90 | 1.40 | 2.08 | 4.90 | 6.65 | 9.45 | 11.0 | 16.7 | 20.5 | — | — | — | — |

Audio Pair Specifications

| Part # | Conductors (Type, DCR) | Insulation (Type, OD) | Insulation Color Code | Shield | Jacket (Type, OD) | Jacket Color Code |
|---------|---------------------------------------|------------------------------|----------------------------|--|------------------------------|--------------------|
| RGB62 | 24 AWG (7x32) Stranded TC, 23.8 Ω/Mft | PE, 0.040" (1.02 mm) | Red & Black, White & Black | 100% Foil with 24 AWG (7x32) TC Drain Wire | PVC, 0.130" (3.30 mm) | One Red, One Black |
| RGB62TS | 22 AWG (7x30) Stranded TC, 15.3 Ω/Mft | Plenum PVC, 0.044" (1.12 mm) | Red & Black, White & Black | 100% Foil with 26 AWG (7x30) TC Drain Wire | Plenum PVC, 0.102" (2.59 mm) | One Red, One Black |

Component RGB with 4 Audio Pairs & 4 Power Conductors



Features & Benefits

- Six Coaxial Elements
- Four Balanced Audio Pairs
- Four Power Conductors
- 4.5 GHz Coaxial Bandwidth (Non-Plenum Version)
- Flexible Master Jacket
- 100% Sweep Tested
- UL Rated CM or Plenum

Applications

- Component Video, Audio & Power Within a Single Cable
- Permanent Installation
- Portable Applications

The hybrid design of the Gepco® Brand RGB644 series allows for four power conductors and four channels of balanced audio to be run with component video, sync and composite video within a single cable. The non-plenum version is constructed from low-loss, solid, 4.5 GHz coaxial elements, while the plenum version is constructed from stranded, 1 GHz miniature coaxial elements. Each audio pair features two twisted 26 AWG conductors with a foil shield, drain wire and color coded jacket. Power elements are constructed from low-loss 20 AWG conductors. The outer jacket is extruded from an extra-flexible, CM rated TPE or a flexible and easy-to-strip plenum PVC.

| Overall Specifications | | | | | | | | | | | | | | | | | | |
|--|---------------------------------------|--|--|--------------------------------------|--|---------------------------------------|------------------------------|--------------------------|----------|---------|---------|---------|---------|-------|---------|----------|-------|---------|
| Part # | # of Coaxials | # of Audio Pairs | # of Power Conductors | Overall Jacket (Type, OD) | UL Type | Approx. Weight | | | | | | | | | | | | |
| RGB644 | 6 | 4 | 4 | Flexible TPE, 0.565" (14.4 mm) | CM | 125 lbs/Mft (186 kg/km) | | | | | | | | | | | | |
| Component RGBHVC with 4 Audio Pairs & 4 Power Conductors | | | | | | | | | | | | | | | | | | |
| RGB644TS | 6 | 4 | 4 | Plenum PVC, 0.415" (10.5 mm) | CL2P | 105 lbs/Mft (156 kg/km) | | | | | | | | | | | | |
| Component RGBHVC with 4 Audio Pairs & 4 Power Conductors: Plenum | | | | | | | | | | | | | | | | | | |
| Coaxial Element Specifications | | | | | | | | | | | | | | | | | | |
| Part # | Conductors (Type, DCR) | Insulation (Type, OD) | Shield | Jacket (Type, OD) | Color Code | Impedance | Vel. of Prop. | | | | | | | | | | | |
| RGB644 | 26 AWG Solid BC, 40.5 Ω/Mft | Gas-Injected Foam PE, 0.074" (1.88 mm) | 100% Foil, 95% TC Braid | PVC, 0.114" (2.90 mm) | Red, Green, Blue, Black, Yellow, White | 75 Ω | 80% | | | | | | | | | | | |
| RGB644TS | 26 AWG (7x34) Stranded TC, 38.5 Ω/Mft | Foam FEP, 0.072" (1.83 mm) | 100% Foil, 95% TC Serve | Plenum PVC, 0.102" (2.59 mm) | Red, Green, Blue, Black, Yellow, White | 75 Ω | 85% | | | | | | | | | | | |
| Coaxial Element Electrical Specifications | | | | | | | | | | | | | | | | | | |
| Part # | Impedance | Return Loss | Capac. | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | | | | | |
| | | | | | | 1 MHz | 33.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| RGB644 | 75 Ω (+/-3) | 100 kHz-1 GHz: >23 dB 1 GHz-4.5 GHz: >19 dB | 16.8 pF/ft | 40.5 Ω/7.0 Ω | 80% | 0.51 | 1.12 | 1.85 | 4.35 | 5.74 | 7.95 | 9.25 | 13.20 | 15.65 | 19.28 | 23.73 | 27.50 | 34.50 |
| RGB644TS | 75 Ω (+/-3) | 100 kHz-455 MHz: >20 dB 455 MHz-1 GHz: >15 dB | 16.0 pF/ft | 38.5 Ω/18.0 Ω | 85% | 0.90 | 1.40 | 2.08 | 4.90 | 6.65 | 9.45 | 11.0 | 16.7 | 20.5 | — | — | — | — |
| Audio Pair Specifications | | | | Power Conductor Specifications | | | | | | | | | | | | | | |
| Part # | Conductors (Type, DCR) | Insulation (Type, OD, Color) | Shield | Jacket (Type, OD) | Jacket Color Code | Conductors (Type, DCR) | Insulation (Type, OD) | Color Code | | | | | | | | | | |
| RGB644 | 26 AWG (7x34) Stranded TC, 38.5 Ω/Mft | PE, 0.033" (0.84 mm), Black & Red | 100% Foil with 26 AWG (7x34) TC Drain Wire | PVC, 0.090" (2.29 mm) | Brown, Red, Orange, Yellow | 20 AWG (7x28) Stranded TC, 10.1 Ω/Mft | PVC, 0.056" (1.42 mm) | Red, White, Black, Green | | | | | | | | | | |
| RGB644TS | 26 AWG (7x34) Stranded TC, 38.5 Ω/Mft | Plenum PVC, 0.033" (0.84 mm) Black & Red | 100% Foil with 26 AWG (7x34) TC Drain Wire | Plenum PVC, 0.090" (2.29 mm) | Brown, Red, Orange, Yellow | 20 AWG (7x28) Stranded TC, 10.1 Ω/Mft | Plenum PVC, 0.053" (1.35 mm) | Red, White, Black, Green | | | | | | | | | | |

V-CON Multi-Channel Video Connector System

VCON connectors



Setting the standard in multi-channel video connectors, the Gepco® Brand V-CON connector offers a convenient, reliable and durable interface format for high-density video applications. Designed for exceptional durability, the V-CON was specifically

engineered for outdoor broadcast, mobile production and staging applications. It features an all-metal body, locking set-screw and integrated cord grip, all in a completely weather-tight design.

Electrically, the V-CON has the bandwidth and performance for both multi-channel HD and component video applications. Through a configurable insert, the V-CON is available in three-, five- or six-channel versions that may be typically used in component video applications, while the 10-, 12- or 16-channel versions can be used for high-density, multi-channel HD video streams. The low insertion loss and 4.5 GHz bandwidth of the V-CON allows it to be used in uncompressed HD serial digital applications. The V-CON coaxial elements are constructed from stainless steel and 50 micron gold-plated contacts to provide corrosion resistance and exceptionally long mating life.

Mechanical Specifications

| Part Number | # of Channels | Gender | Type | Shell Size | Maximum Cable Diameter |
|-------------|---------------|--------|-------------|-----------------|------------------------|
| VCON16FC | 16 | Female | Cable Mount | Large - Type 36 | 0.885" (22.48 mm) |
| VCON16MP | 16 | Male | Panel Mount | Large - Type 36 | 0.885" (22.48 mm) |
| VCON12FC | 12 | Female | Cable Mount | Large - Type 36 | 0.885" (22.48 mm) |
| VCON12MP | 12 | Male | Panel Mount | Large - Type 36 | 0.885" (22.48 mm) |
| VCON10FC | 10 | Female | Cable Mount | Large - Type 36 | 0.885" (22.48 mm) |
| VCON10MP | 10 | Male | Panel Mount | Large - Type 36 | 0.885" (22.48 mm) |
| VCON6FC | 6 | Female | Cable Mount | Small - Type 24 | 0.625" (15.88 mm) |
| VCON6MP | 6 | Male | Panel Mount | Small - Type 24 | 0.625" (15.88 mm) |
| VCON5FC | 5 | Female | Cable Mount | Small - Type 24 | 0.625" (15.88 mm) |
| VCON5MP | 5 | Male | Panel Mount | Small - Type 24 | 0.625" (15.88 mm) |
| VCON3FC | 3 | Female | Cable Mount | Small - Type 24 | 0.625" (15.88 mm) |
| VCON3MP | 3 | Male | Panel Mount | Small - Type 24 | 0.625" (15.88 mm) |

VCON distribution racks



The V-CON series distribution racks offer a convenient and flexible solution for the distribution of multiple coaxial channels in a permanent-installation application. Ideal for junction boxes, truck I/O panels, control rooms or staging applications, the

V-CON series is available in a variety on configurations and sizes. Each contact of the V-CON is wired out to a BNC female connector on the back panel for up to a total of 160 channels in the 10x16 version. Available with three, five or 10 V-CON connectors, each V-CON connector can be ordered as a three-, five-, six-, 10-, 12- or 16-channel version.

Mechanical Specifications

| Part Number | # of V-CON Connectors | # of Channels/Multi-Pin Connector | Rack Unit Height | V-CON Gender | BNC Gender |
|-------------|-----------------------|-----------------------------------|------------------|----------------------|------------|
| VDR10* | 10 | 10, 12, 16 | 4 | Male - Large Type 36 | Female |
| VDR5* | 5 | 10, 12, 16 | 2 | Male - Large Type 36 | Female |
| VDR5* | 5 | 3, 5, 6 | 2 | Male - Small Type 24 | Female |
| VDR3* | 3 | 10, 12, 16 | 2 | Male - Large Type 36 | Female |
| VDR3* | 3 | 3, 5, 6 | 2 | Male - Small Type 24 | Female |

* = Number of Channels per V-CON

Features & Benefits

- Configurable to 3, 5, 6, 10, 12, or 16 Channels
- Extra-Rugged, All-Metal Body with Set-Screw
- Unique Keyway Style for Each Configuration
- 50 Micron Gold-Plated and Stainless Steel Contacts
- Weather-Resistant
- 4.5 GHz Bandwidth
- Uncompressed HD-SDI or Component Video
- Integrated Cord Grip

Additional Specifications

| | |
|------------------------|--------------------------|
| Structural Return Loss | -15 dB, 1 MHz-4.5 GHz |
| Insertion Loss | 0.25 dB |
| Cable Termination Type | VDM230 Type 23 AWG Solid |

Features & Benefits

- Available in 3, 5, or 10 V-CON Multi-Pin Versions
- Option of 3, 5, 6, 10, 12 or 16 Channels per V-CON
- 4.5 GHz Bandwidth
- Uncompressed HD-SDI or Component Video
- Breaks Out V-CON Multi-Pin to BNCs
- Includes Weather-Tight V-CON Dust Caps
- 4RU or 2RU Rack Height

V-CON Multi-Channel Video Connector System

VCON breakout boxes



The V-CON series breakout boxes provide a compact and secure solution for interfacing V-CON snakes with external equipment. Built in a heavy-gauge aluminum chassis with a recessed top plate, the V-CON breakout boxes provide exceptional durability and connector protection. Each coaxial channel in the V-CON connector is wired to a female

BNC for easy access and patching. Available in three- to 16-channel versions with a 4.5 GHz bandwidth, the V-CON breakout boxes can be used for distribution of uncompressed HD or component video.

Features & Benefits

- Heavy-Duty Aluminum Chassis
- Available in 3-, 5-, 6-, 10-, 12- and 16-Channel Versions
- 4.5 GHz Bandwidth
- Uncompressed HD-SDI or Component Video
- Includes Weather-Tight V-CON Dust Caps
- Breaks Out V-CON Multi-Pin to BNCs
- Recessed Top Plate Protects Connectors

Mechanical Specifications

| Part Number | # of Channels | Chassis Dimensions | V-CON Gender | BNC Type |
|-------------|---------------|--|------------------------|-----------|
| VBB16 | 16 | 4.5" (11.4 cm) High x 5.25" (13.3 cm) Wide x 9" (22.9 cm) Long | 1 Male - Large Type 36 | 16 Female |
| VBB12 | 12 | 4.5" (11.4 cm) High x 5.25" (13.3 cm) Wide x 9" (22.9 cm) Long | 1 Male - Large Type 36 | 12 Female |
| VBB10 | 10 | 4.5" (11.4 cm) High x 5.25" (13.3 cm) Wide x 9" (22.9 cm) Long | 1 Male - Large Type 36 | 10 Female |
| VBB6 | 6 | 4.5" (11.4 cm) High x 5.25" (13.3 cm) Wide x 4.5" (11.4 cm) Long | 1 Male - Small Type 24 | 6 Female |
| VBB5 | 5 | 4.5" (11.4 cm) High x 5.25" (13.3 cm) Wide x 4.5" (11.4 cm) Long | 1 Male - Small Type 24 | 5 Female |
| VBB3 | 3 | 4.5" (11.4 cm) High x 5.25" (13.3 cm) Wide x 4.5" (11.4 cm) Long | 1 Male - Small Type 24 | 3 Female |

VCON cable assemblies



V-CON terminated cable assemblies offer an extremely rugged, compact and weather-resistant portable interconnect system for HD or component video applications. Built with the Gepco® Brand V-CON connector and Gepco Brand multi-channel video snake cable, V-CON cable assemblies can be custom ordered in three- to 16-channel versions.

In addition to the durability provided by the internal strain relief, metal cord grip and gaskets of the V-CON design, the connector is also sealed with an overbody, epoxy-lined heat shrink for additional protection. The video snake cables utilize miniature, high bandwidth, gas-injected coaxial elements that are jacketed with an overall, weather-resistant TPE jacket.

The combined materials and termination methods used in the V-CON cable assemblies create the most durable and convenient multi-channel video snake system for broadcast and hostile environment applications.

Features & Benefits

- Available in 3-, 5-, 6-, 10-, 12- or 16-Channel Versions
- Extra-Rugged, All-Metal Body with Set-Screw
- Heavy-Duty TPE Cable Jacket
- 50 Micron Gold-Plated and Stainless Steel Contacts
- 4.5 GHz Bandwidth
- Weather-Resistant
- Uncompressed HD-SDI
- Multi-Channel HD & Component Video
- Cord Grip with Overbody Heat Shrink

Mechanical Specifications

| Part Number | # of Channels | V-CON Gender | Cable Type | Total Bandwidth |
|--------------|---------------|------------------------------------|-----------------------|-----------------|
| VMC16-length | 16 | Female - Large Type 36 (Both Ends) | VS16230 (See Page 52) | 4.5 GHz |
| VMC12-length | 12 | Female - Large Type 36 (Both Ends) | VS12230 (See Page 52) | 4.5 GHz |
| VMC10-length | 10 | Female - Large Type 36 (Both Ends) | VS10230 (See Page 52) | 4.5 GHz |
| VMC6-length | 6 | Female - Small Type 24 (Both Ends) | VS6230 (See Page 52) | 4.5 GHz |
| VMC5-length | 5 | Female - Small Type 24 (Both Ends) | VS5230 (See Page 52) | 4.5 GHz |
| VMC3-length | 4 | Female - Small Type 24 (Both Ends) | VS3230 (See Page 52) | 4.5 GHz |

Fanouts available as special order.

For more detailed information, see the V-CON Multi-Channel Video Connector System (http://www.gepco.com/PDF_files/Gepco_VCON_brochure.pdf).

Video Snake: High-Definition Miniature 23 AWG



TactiCel™
Strong Cell Technology

Designed for multi-channel digital or analog video interconnect, the Geppo® Brand VS230 series is a miniature, multi-conductor, high-definition video coax snake. This snake features a thin-profile construction that reduces the weight and diameter for easy handling and portability in remote applications. The coaxial elements are identical to the Geppo Brand VDM230 for low attenuation, 4.5 GHz HD bandwidth and broadband shielding. For the outer jacket, an all-weather TPE is used for both flexibility and ruggedness.

Features & Benefits

- Thin Profile
- Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation
- Extra Flexible
- TactiCel™ Gas-Injected Foam Dielectric
- Full-Copper Braid & Foil Shield
- 100% Sweep Tested
- All-Weather TPE Master Jacket

Applications

- High-Definition or Standard-Definition Serial Digital Video
- Digital Audio (AES3id or SPDIF)
- High-Resolution Analog Video
- Portable Snakes

Mechanical Specifications (Series)

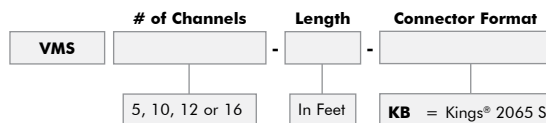
| Conductors | Insulation (Type, OD) | Shield | Coax Jacket (Type, OD) | Master Jacket |
|-----------------|--|-------------------------|------------------------|---------------|
| 23 AWG Solid BC | Gas-Injected Foam PE, 0.100" (2.54 mm) | 95% TC Braid, 100% Foil | PVC, 0.164" (4.17 mm) | TPE, Black |

Mechanical Specifications (Individual)

| Part # | # of Coaxials | Color Code | Nominal OD | Approx. Weight |
|----------------|---------------|--|------------------|-------------------------|
| VS3230 | 3 | Red, Green, Blue | 0.453" (11.5 mm) | 192 lbs/Mft (286 kg/km) |
| VS5230 | 5 | Red, Green, Blue, Yellow, White | 0.570" (14.5 mm) | 150 lbs/Mft (224 kg/km) |
| VS6230 | 6 | Red, Green, Blue, Yellow, White, Black | 0.599" (15.2 mm) | 170 lbs/Mft (253 kg/km) |
| VS10230 | 10 | Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black | 0.785" (19.9 mm) | 315 lbs/Mft (469 kg/km) |
| VS12230 | 12 | Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Black, Beige, Pink | 0.800" (20.3 mm) | 375 lbs/Mft (559 kg/km) |
| VS16230 | 16 | Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Black, Beige, Pink, Neon Orange, Pumpkin Yellow, Lime Green, Dark Blue | 0.885" (22.5 mm) | 500 lbs/Mft (745 kg/km) |

Electrical Specifications

| Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz) | Capacitance | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | | | | | |
|-------------|--|-------------|--|---------------------|-----------------------------|------------|-----------|-------------|------------|------------|------------|------------|----------|------------|-------------|----------|------------|
| | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| 75 Ω (+/-3) | >23 dB, >21 dB | 16.5 pF/ft | 20.3 Ω/2.7 Ω | 82% | 0.38 | 0.78 | 1.19 | 3.01 | 3.80 | 5.40 | 6.18 | 9.30 | 10.47 | 12.97 | 16.00 | 18.48 | 22.79 |



KB = Kings® 2065 Series 3 GHz True 75 Ω BNC
AB = ADC® 3 GHz True 75 Ω BNC
CF = Canare® 75 Ω F-Type Connector
CR = Canare® 200 MHz Crimp RCA
 *No suffix will designate Geppo® Brand BNCs.

Video Snake: High-Definition RG 59



A multi-conductor version of VPM2000 high-definition video coax, the Gepco® Brand VS2000 series also features low attenuation, a 4.5 GHz HD bandwidth, TactiCel™ gas-injected foam dielectric and broadband shielding. Each coaxial element has precision electrical characteristics and is tested and verified to meet or exceed SMPTE 292 standards for digital video transmission. The outer jacket is extruded from a flexible, abrasion-resistant, all-weather TPE compound that remains flexible in low-temperature environments. Commonly used for high-resolution component analog video, the VS2000 series can also be used for multiple channels of uncompressed HD video.

Features & Benefits

- Ultra-Low Attenuation & Return Loss
- RG 59 VPM2000 HD Coax Elements
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation
- TactiCel Gas-Injected Foam Dielectric
- Full-Copper Braid & Foil Shield
- Flexible
- 100% Sweep Tested
- All-Weather TPE Master Jacket

Applications

- High-Definition or Standard-Definition Serial Digital Video
- Digital Audio (AES3id or SPDIF)
- High-Resolution RGB Component Analog Video
- Studio Interconnect, Portable Snakes or Permanent Installation
- Ideal for Extended-Distance Runs

| Mechanical Specifications (Series) | | | | | | | | | | | | | | | | | |
|--|--|---|--|------------------------|-----------------------------|---------|--------|---------------|-------------------------|---------|---------|---------|-------|---------|----------|-------|---------|
| Conductors | Insulation (Type, OD) | | Shield | Coax Jacket (Type, OD) | | | | Master Jacket | | | | | | | | | |
| 20 AWG Solid BC | Gas-Injected Foam PE, 0.146" (3.71 mm) | | 95% TC Braid, 100% Foil | PVC, 0.242" (6.15 mm) | | | | TPE, Black | | | | | | | | | |
| Mechanical Specifications (Individual) | | | | | | | | | | | | | | | | | |
| Part # | # of Coaxials | Color Code | | | Nominal OD | | | | Approx. Weight | | | | | | | | |
| VS52000 | 5 | Red, Green, Blue, Yellow, White | | | 0.745" (18.9 mm) | | | | 260 lbs/Mft (387 kg/km) | | | | | | | | |
| VS102000 | 10 | Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black | | | 1.10" (27.9 mm) | | | | 520 lbs/Mft (775 kg/km) | | | | | | | | |
| Electrical Specifications | | | | | | | | | | | | | | | | | |
| Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz) | Capacitance | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | | | | | |
| | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| 75 Ω (+/-2) | >23 dB, >21 dB | 16.3 pF/ft | 10.2 Ω/3.5 Ω | 83% | 0.28 | 0.53 | 0.86 | 2.05 | 2.71 | 3.80 | 4.38 | 6.40 | 7.57 | 9.29 | 11.57 | 13.36 | 16.39 |



| Cable Type | Length | Connector Format |
|------------|---------|--|
| VSC10 | | |
| VS102000 | In Feet | KB = Kings® 2065 Series 3 GHz True 75 Ω BNC AB = ADC® 3 GHz True 75 Ω BNC CF = Canare® 75 Ω F-Type Connector CR = Canare® 200 MHz Crimp RCA *No suffix will designate Gepco® Brand BNCs. |

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Video Snake: High-Definition RG 6



TactiCel™
Strong Cell Technology

A multi-conductor version of VSD2001 high-definition video coax, the Gepco® Brand VS2001 series also features low attenuation, a 4.5 GHz HD bandwidth, TactiCel™ gas-injected foam dielectric and broadband shielding. Each coaxial element has precision electrical characteristics and is tested and verified to meet or exceed SMPTE 292M standards for digital video transmission. The outer jacket is extruded from either from Gepco's GEP-FLEX TPE or an all-weather TPE compound that is flexible and abrasion-resistant for portable applications. The VS2001 series can be used for multiple channels of uncompressed HD video or component level video applications.

Features & Benefits

- Ultra-Low Attenuation & Return Loss
- RG 6 VSD2001 HD Coax Elements
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation
- TactiCel Gas-Injected Foam Dielectric
- Full-Copper Braid & Foil Shield
- Flexible
- Low-Friction Jacket
- All-Weather GEP-FLEX Master Jacket
- 100% Sweep Tested
- CMR Riser Rated

Applications

- High-Definition or Standard-Definition Serial Digital Video
- Digital Audio (AES3id or SPDIF)
- High-Resolution RGB Component Analog Video
- Studio Interconnect, Portable Snakes or Permanent Installation
- Ideal for Extended-Distance Runs

Mechanical Specifications (Series)

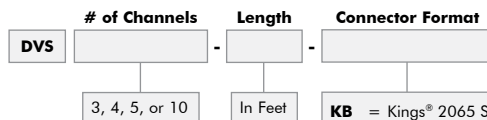
| Conductors | Insulation (Type, OD) | Shield | Coax Jacket (Type, OD) |
|-----------------|--|-------------------------|------------------------|
| 18 AWG Solid BC | Gas-Injected Foam PE, 0.180" (4.57 mm) | 95% TC Braid, 100% Foil | PVC, 0.272" (6.91 mm) |

Mechanical Specifications (Individual)

| Part # | # of Coaxials | Color Code | Nominal OD | Master Jacket | UL Type | Approx. Weight |
|----------|---------------|---|------------------|---------------------------|---------|-------------------------|
| VS32001 | 3 | Red, Green, Blue | 0.735" (18.7 mm) | Riser GEP-FLEX TPE, Black | CMR | 182 lbs/Mft (271 kg/km) |
| VS42001 | 4 | Red, Green, Blue, Yellow | 0.790" (20.1 mm) | Riser GEP-FLEX TPE, Black | CMR | 230 lbs/Mft (342 kg/km) |
| VS52001 | 5 | Red, Green, Blue, Yellow, White | 0.845" (21.5 mm) | Riser GEP-FLEX TPE, Black | CMR | 295 lbs/Mft (440 kg/km) |
| VS102001 | 10 | Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black | 1.25" (31.8 mm) | TPE, Black | — | 600 lbs/Mft (894 kg/km) |

Electrical Specifications

| Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz) | Capacitance | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | | | | | |
|-------------|--|-------------|--|---------------------|-----------------------------|------------|-----------|-------------|------------|------------|------------|------------|----------|------------|-------------|----------|------------|
| | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| 75 Ω (+/-2) | >23 dB, >21 dB | 16.3 pF/ft | 6.4 Ω/2.8 Ω | 83% | 0.22 | 0.43 | 0.70 | 1.60 | 2.10 | 2.96 | 3.40 | 4.95 | 5.87 | 7.30 | 9.13 | 10.65 | 13.28 |



KB = Kings® 2065 Series 3 GHz True 75 Ω BNC
AB = ADC® 3 GHz True 75 Ω BNC
CF = Canare® 75 Ω F-Type Connector
CR = Canare® 200 MHz Crimp RCA

*No suffix will designate Gepco® Brand BNCs.

Video Snake: High-Definition RG 7



TactiCel™
Strong Cell Technology

A multi-conductor version of VHD7000 high-definition video coax, the Gepco® Brand VS57000 also features low attenuation, a 4.5 GHz HD bandwidth, TactiCel™ gas-injected foam dielectric and broadband shielding. Each coaxial element has precision electrical characteristics and is tested and verified to meet or exceed SMPTE standards for digital video transmission. The outer jacket is extruded from an all-weather TPE that is flexible and abrasion-resistant for portable applications.

Features & Benefits

- Ultra-Low Attenuation & Return Loss
- RG 7 VHD7000 HD Coax Elements
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation
- TactiCel Gas-Injected Foam Dielectric
- Full-Copper Braid & Foil Shield
- Flexible
- All-Weather TPE Master Jacket
- 100% Sweep Tested

Applications

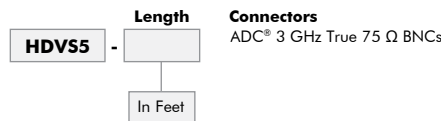
- High-Definition or Standard-Definition Serial Digital Video
- Digital Audio (AES3id or SPDIF)
- High-Resolution RGB Component Analog Video
- Portable Snakes

Mechanical Specifications

| Part # | # of Coaxials | Nominal OD | Conductors | Insulation (Type, OD) | Shield | Coax Jacket (Type, OD) | Coax Color Code | Master Jacket | Approx. Weight |
|---------|---------------|------------------|-----------------|--|-------------------------|------------------------|-----------------------------------|---------------|-------------------------|
| VS57000 | 5 | 0.980" (24.9 mm) | 16 AWG Solid BC | Gas-Injected Foam PE, 0.223" (56.6 mm) | 95% TC Braid, 100% Foil | PVC, 0.320" (8.13 mm) | Red, Green, Yellow, Orange, Brown | TPE, Black | 400 lbs/Mft (596 kg/km) |

Electrical Specifications

| Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz) | Capacitance | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | | | | | |
|-------------|--|-------------|--------------------------------------|---------------|-----------------------------|---------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|---------|
| | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| 75 Ω (+/-2) | >23 dB, >21 dB | 16.2 pF/ft | 4.0 Ω/1.9 Ω | 84% | 0.16 | 0.34 | 0.54 | 1.28 | 1.70 | 2.40 | 2.80 | 4.05 | 4.80 | 5.89 | 7.25 | 8.40 | 10.90 |



ADC is a registered trademark of ADC Telecommunication, Inc.



P. 800.966.0069 P. 847.795.9555 F. 847.795.8770 www.gepco.com

Composite A/V: Thin Profile



A multi-element coax and twisted-pair snake cable, the Gepco® Brand VA2TP series utilizes miniature type coax for reduced size and weight. Coaxial construction for the VA2TP series is identical to single VDM250 for low attenuation, low return loss and excellent broadband shielding. The 61801EZ type analog audio single-pair features low-loss 22 AWG conductors and is easy to strip and terminate. The all-weather TPE master jacket is abrasion-resistant, durable and remains flexible in cold temperature environments.

Features & Benefits

- Thin Profile
- Low Attenuation & Crosstalk
- Flexible
- Easy to Terminate
- 61801EZ Single-Pairs
- VDM250 Coaxials
- Individually Shielded & Jacketed Pairs & Coaxials
- Color Coded
- Additional Overall Foil Shield
- 100% Sweep Tested (Coaxial Elements)
- All-Weather TPE Master Jacket

Applications

- Standard-Definition Serial Digital Video
- High-Resolution Analog Video
- Microphone or Line Level Balanced Analog Audio
- Portable Snakes
- Ideal for ENG or Electronic Field Production

Coax Mechanical Specifications

| Conductor | Insulation (Type, OD) | Shield | Coax Jacket (Type, OD) |
|---------------------------|--|-------------------------|------------------------|
| 25 AWG (7x33) Stranded BC | Gas-Injected Foam PE, 0.099" (2.29 mm) | 95% TC Braid, 100% Foil | PVC, 0.154" (3.91 mm) |

Single-Pair Mechanical Specifications

| Conductor | Insulation (Type, OD) | Color Code | Shield | Drain | Jacket (Type, OD) |
|---------------------------|-----------------------|-------------|--------------------|---------------------------|-----------------------|
| 22 AWG (7x30) Stranded TC | PE, 0.008" (0.20 mm) | Red & Black | 100% Foil (Bonded) | 22 AWG (7x30) Stranded TC | PVC, 0.138" (3.51 mm) |

Overall Mechanical Specifications

| Overall Shield | Overall Common Drain | Master Jacket |
|----------------|-----------------------------|---------------|
| 100% Foil | 20 AWG (10x30), Stranded TC | TPE, Black |

Individual Mechanical Specifications

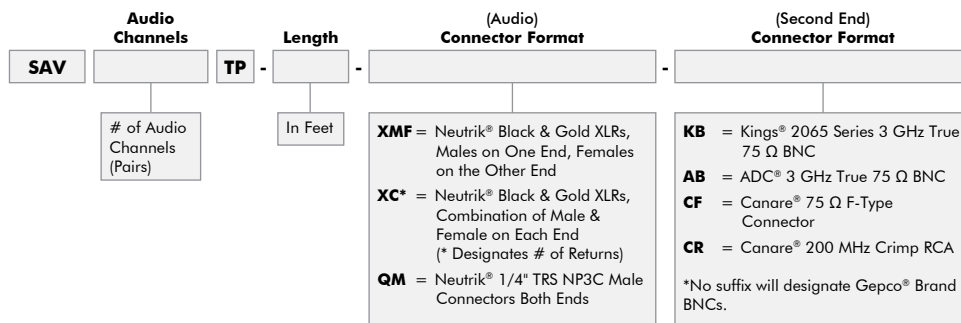
| Part # | # of Coaxials | Coax Color Code | # of Single Pairs | Single-Pair Color Code | Nominal OD | Approx. Weight |
|---------|---------------|-----------------|-------------------|-------------------------------|------------------|-------------------------|
| VA2/2TP | 2 | Black & White | 2 | Brown & Red (Base 10) | 0.430" (10.9 mm) | 95 lbs/Mft (142 kg/km) |
| VA2/3TP | 2 | Black & White | 3 | Brown, Red & Orange (Base 10) | 0.485" (12.3 mm) | 115 lbs/Mft (171 kg/km) |

Coax Electrical Specifications

| Impedance | Return Loss (100 kHz-1 GHz) | Capacitance | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | |
|-------------|--------------------------------|-------------|--|---------------------|-----------------------------|------------|-----------|-------------|------------|------------|------------|------------|----------|
| | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz |
| 75 Ω (+/-3) | >21 dB | 16.5 pF/ft | 30.0 Ω/4.8 Ω | 82% | 0.47 | 0.91 | 1.43 | 3.45 | 4.61 | 6.46 | 7.48 | 10.80 | 12.80 |

Single-Pair Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR |
|---|------------|------------|
| 34 pF/ft Between Conductors, 62 pF/ft Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft | 15.3 Ω/Mft |



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Composite A/V: Low Loss



A multi-element coax and twisted-pair snake cable, the Gepco® Brand VA2 series utilizes low-loss, high-definition RG 59 type coax. Coaxial construction for the VA2 series is identical to single VPM2000 for low attenuation and return loss, 4.5 GHz HDTV bandwidth and excellent broadband shielding. The 61801EZ type analog audio single-pair features low-loss 22 AWG conductors and is easy to strip and terminate. The all-weather TPE master jacket is abrasion-resistant, durable and remains flexible in cold temperature environments.

Features & Benefits

- Low Attenuation & Crosstalk
- Flexible
- Easy to Terminate
- 61801EZ Single Pairs
- VPM2000 Coaxials
- Individually Shielded & Jacketed Pairs & Coaxials
- Color Coded
- Additional Overall Foil Shield
- 100% Sweep Tested (Coaxial Elements)
- All-Weather TPE Master Jacket

Applications

- High-Definition or Standard-Definition Serial Digital Video
- High-Resolution Analog Video
- Microphone or Line Level Balanced Analog Audio
- Portable Snakes
- Ideal for ENG or Electronic Field Production

Coax Mechanical Specifications

| Conductor | Insulation (Type, OD) | Shield | Coax Jacket (Type, OD) |
|-----------------|--|-------------------------|------------------------|
| 20 AWG Solid BC | Gas-Injected Foam PE, 0.146" (3.71 mm) | 95% TC Braid, 100% Foil | PVC, 0.242" (6.15 mm) |

Single-Pair Mechanical Specifications

| Conductor | Insulation (Type, OD) | Color Code | Shield | Drain | Jacket (Type, OD) |
|---------------------------|-----------------------|-------------|--------------------|---------------------------|-----------------------|
| 22 AWG (7x30) Stranded TC | PE, 0.008" (0.20 mm) | Red & Black | 100% Foil (Bonded) | 22 AWG (7x30) Stranded TC | PVC, 0.138" (3.51 mm) |

Overall Mechanical Specifications

| Overall Shield | Overall Common Drain | Master Jacket |
|----------------|-----------------------------|---------------|
| 100% Foil | 20 AWG (10x30), Stranded TC | TPE, Black |

Individual Mechanical Specifications

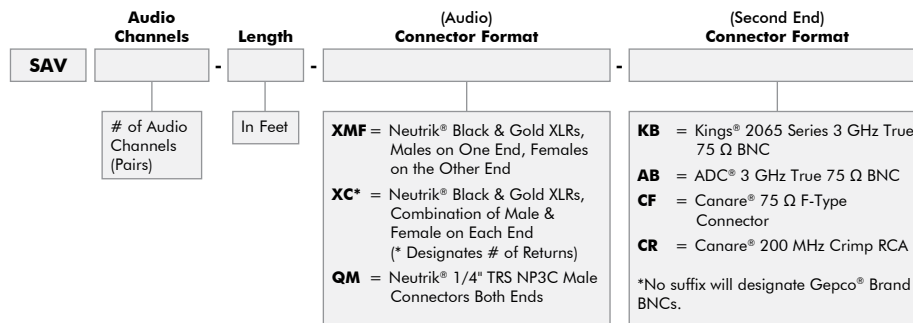
| Part # | # of Coaxials | Coax Color Code | # of Single Pairs | Single-Pair Color Code | Nominal OD | Approx. Weight |
|--------|---------------|-----------------|-------------------|--|------------------|-------------------------|
| VA2/3 | 2 | Black & White | 3 | Brown, Red & Orange (Base 10) | 0.615" (15.6 mm) | 168 lbs/Mft (250 kg/km) |
| VA2/4 | 2 | Black & White | 4 | Brown, Red, Orange & Yellow (Base 10) | 0.630" (16.0 mm) | 173 lbs/Mft (258 kg/km) |
| VA2/5 | 2 | Black & White | 5 | Brown, Red, Orange, Yellow & Green (Base 10) | 0.640" (16.3 mm) | 186 lbs/Mft (277 kg/km) |

Coax Electrical Specifications

| Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz) | Capacitance | Cond. DCR per Mft/Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | | | | | |
|-------------|--|-------------|--------------------------------------|---------------|-----------------------------|---------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|---------|
| | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| 75 Ω (+/-2) | >23 dB, >21 dB | 16.3 pF/ft | 10.2 Ω/3.5 Ω | 83% | 0.28 | 0.53 | 0.86 | 2.05 | 2.71 | 3.80 | 4.38 | 6.40 | 7.57 | 9.29 | 11.57 | 13.36 | 16.39 |

Single-Pair Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR |
|---|------------|------------|
| 34 pF/ft Between Conductors, 62 pF/ft Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft | 15.3 Ω/Mft |



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CAMERA & FIBER OPTIC SOLUTIONS

| Page | Broadcast | Commercial AV | Assemblies |
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In This Section:

- Cable:** Flexible Studio/Remote Triax
- Cable:** Permanent-Installation Triax
- Tester:** SMPTE Hybrid Fiber Cable
- Cable:** 7.2 mm Hybrid Fiber Optic
- Cable:** 9.2 mm Hybrid Fiber Optic
- Cable:** 9.2 mm Heavy-Duty Hybrid Fiber Optic
- Cable:** 12 mm Heavy-Duty Hybrid Fiber Optic
- Cable:** 16 mm Heavy-Duty Hybrid Fiber Optic
- Cable:** 3-Channel Permanent-Installation Hybrid Fiber
- Cable:** HD Camera Electrical
- Cable:** Tactical Single-Mode Fiber Optic
- Cable:** Tactical Multi-Mode Fiber Optic
- Assemblies:** Neutrik® opticalCON® Fiber Optic
- Assemblies:** TFOCA-II® and Pierside
- Assemblies:** TACBeam™ Expanded Beam
- Cable:** Single-Mode Fiber Optic: Perm Install
- Cable:** Multi-Mode Fiber Optic: Perm Install
- Distribution:** HSB Fusion Splice Box
- Distribution:** SMPTE Field and Studio Boxes
- Distribution:** HMD Modular Distribution Rack
- Distribution:** HMS Modular Fusion Splice Rack
- Distribution:** HDR1 High-Density, Hybrid Fiber Rack
- Distribution:** NDR1 High-Density, Hybrid Fiber Rack
- Distribution:** HMP8-Bxx SMPTE 304 Breakout Rack
- Distribution:** HMP8 Modular Hybrid Fiber and Triax Panel
- Distribution:** Modular Isolation Panel System
- Distribution:** Hybrid Fiber Blank Panels
- Assemblies:** Hybrid Fiber Breakout: In-Line & Internal Distribution
- Distribution:** Feedthrough Panels & Chassis
- Connectors:** Panel Mount Feedthrough
- SMPTE 304/311 Workflow:** Direct Cable Termination
- SMPTE 304/311 Workflow:** Distribution Rack

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FIBER & TRIAX CABLES, ASSEMBLIES & DISTRIBUTION FOR CAMERA-TO-CCU INTERCONNECTIONS



All-Weather Jacket

All portable camera cables utilize an extra-flexible, abrasion-resistant thermoplastic elastomer or polyurethane jacket compound. These materials are exceptionally durable and puncture-resistant and remain flexible even in low temperature environments.

Gas-Injected Dielectric

Gepco® Brand's proprietary gas-injection process known as TactiCel™, blends nitrogen and plastic polymers to produce a dielectric that reduces high frequency attenuation, while maintaining uniform cell structure, return loss and exceptional crush resistance.

High Tensile Strength Fiber Coating

All optical fiber elements in Gepco Brand SMPTE hybrid fiber cables are coated with a unique CPE coating that has three times the tensile strength compared to other types, which significantly improves the operating life of the fiber and cable.

Crush-Resistant

Dielectric and jacket compounds used have exceptional crush resistance and aging properties. As a result, Gepco Brand coaxial cables are less susceptible to structural damage and deformation.

Heat-Resistant

To eliminate power conductor insulation failure in extreme heat, Gepco Brand camera cables feature heat-resistant materials that maintain their insulation properties as the operating temperature increases.

Electrical Characteristics & Specifications

Meets or Exceeds SMPTE Standards

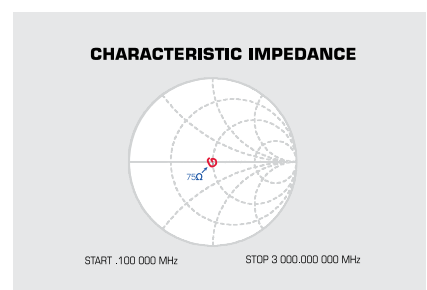
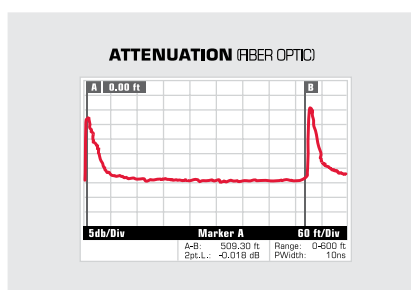
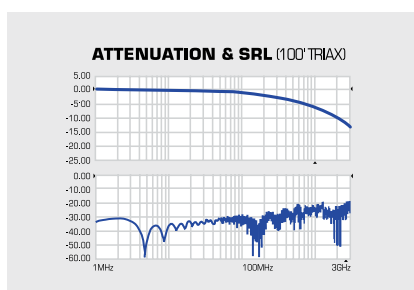
All Gepco Brand triax and SMPTE hybrid fiber cables meet or exceed SMPTE standards for camera interconnections. In addition, all triax is 100% sweep tested for return loss, attenuation, bandwidth and impedance.

Low Attenuation

Gepco Brand hybrid cables have low-loss single-mode fiber elements for uncompressed HD video transmission, while triaxial cables feature Gepco's proprietary TactiCel gas-injected dielectric.

Precision Impedance

Triaxial cables have a precision 75 Ω impedance to ensure impedance matching, optimal signal transfer and low structural return loss.



Flexible Studio/Remote Triax



Comprised of extra-flexible triaxial camera cables, the LVT618 series is designed for use in studio, remote or other portable applications. Like the HD coax series, Gepco® Brand triax features a precision-drawn, copper conductor and TactiCel™, a low-loss, gas-injected polyethylene dielectric. The unique gas injection process achieves low attenuation, a precision 75 Ω impedance, low structural return loss and superior crush resistance. A tight-angled, heavy-gauge braid shield provides excellent RF/EMI shielding and low DCR. The master jacket is an all-weather TPE that is abrasion-resistant, durable and remains flexible even in cold temperature environments.

Features & Benefits

Ultra-Low Attenuation
Precision 75 Ω Impedance
3 GHz Bandwidth
Low Structural Return Loss
High Velocity of Propagation
Flexible
TactiCel Gas-Injected Foam Dielectric
Two Isolated Copper Braids
All-Weather TPE Master Jacket

Applications

Digital or Analog Video Camera-to-CCU Interconnect
Portable Cables
Studio or Remote Environments

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Type, OD) | Inner Shield | Inner Belt (Type, OD) | Outer Shield | Jacket | Jacket Colors | Approx. Weight |
|--|------------|------------------|--------------------------------------|--|--------------|-----------------------|--------------|--------|---|------------------------|
| LVT61811 | 1 | 0.515" (13.1 mm) | 14 AWG (19x27) Stranded BC | Gas-Injected Foam PE, 0.312" (7.92 mm) | 95% BC Braid | TPR, 0.392" (9.96 mm) | 95% BC Braid | TPE | Black, Red, Yellow, Green, Blue | 136 lbs/Mft (54 kg/km) |
| <i>Extended-Distance RG 11 Flexible Triax</i> | | | | | | | | | | |
| LVT61859 | 1 | 0.360" (9.14 mm) | 20 AWG Solid BC | Gas-Injected Foam PE, 0.146" (3.71 mm) | 95% BC Braid | TPR, 0.216" (5.49 mm) | 95% BC Braid | TPE | Black, Red, Yellow, Green, Blue, Violet | 80 lbs/Mft (119 kg/km) |
| <i>Thin Profile RG 59 Flexible Triax</i> | | | | | | | | | | |
| LVT61859S | 1 | 0.360" (9.14 mm) | 21 AWG (19x34) Stranded BC (Compact) | Gas-Injected Foam PE, 0.146" (3.71 mm) | 95% BC Braid | TPR, 0.216" (5.49 mm) | 95% BC Braid | TPE | Black, Red, Blue | 80 lbs/Mft (119 kg/km) |
| <i>Thin Profile RG 59 Flexible Triax: Stranded</i> | | | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-3 GHz) | Capacitance | Cond. DCR per Mft | Inner Shield DCR per Mft/Outer Shield DCR per Mft | Vel. of Prop. | Nominal Attenuation (dB per 100 ft) | | | | | | | | | | | |
|-----------|-------------|--|-------------|-------------------|---|---------------|-------------------------------------|---------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|
| | | | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz |
| LVT61811 | 75 Ω (+/-3) | >22 dB, >15 dB | 16.8 pF/ft | 2.8 Ω | 1.2 Ω/1.2 Ω | 78% | 0.14 | 0.28 | 0.45 | 1.20 | 1.79 | 2.60 | 3.12 | 4.70 | 5.69 | 8.05 | 10.75 | 13.50 |
| LVT61859 | 75 Ω (+/-3) | >22 dB, >15 dB | 16.3 pF/ft | 10.2 Ω | 2.6 Ω/2.0 Ω | 83% | 0.28 | 0.56 | 0.87 | 2.18 | 3.00 | 4.19 | 4.83 | 6.90 | 8.82 | 11.98 | 15.80 | 19.65 |
| LVT61859S | 75 Ω (+/-3) | >22 dB, >15 dB | 17.0 pF/ft | 14.3 Ω | 2.6 Ω/2.0 Ω | 78% | 0.30 | 0.57 | 0.89 | 2.23 | 3.12 | 4.49 | 5.40 | 8.14 | 10.10 | 13.22 | 16.85 | 20.50 |

Triax Assembly



GTC - Cable Type - Color - Length - Connector Format

11 = LVT61811
59A = LVT61859
59B = LVT61859S

0 = Black (All)
2 = Red (All)
4 = Yellow (LVT61811, LVT61859)
5 = Green (LVT61811, LVT61859)
6 = Blue (All)
7 = Violet (LVT61859S)

In Feet

*No suffix designates Kings® Tri-Loc® Connectors (One Male, One Female)
7705-2 & 7703-2 for LVT61859/LVT61859S
7705-3 & 7703-3 for LVT6185911

ADC = ADC® Pro-Ax™ (One Male, One Female)
TCJ-B38 & TCP-B38 for LVT61859/LVT61859S
TCJ-C12 & TCP-C12 for LVT61811

*ADC Global Standard – G-Series (Equivalent to Fischer Connectors® Series 1051 A004) also available.

Triax Tester

Two-piece test set that measures for multiple combinations of opens and/or shorts between the center conductor, inner braid and outer braid. The convenience of the base and remote, two-unit design allows for testing without having to uninstall and coil the cable. The case of both units is constructed from a durable, coated aluminum chassis that is also weather resistant. Operation of the TT2B is extremely simple via a single latching push button and four, high-visibility LEDs.



Parts

| Part # | Description |
|--------|---------------------------------|
| TCM | Triaxial Tester (Base & Remote) |

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Permanent-Installation Triax



Designed for permanent installation in conduit, plenum air spaces or outdoor environments, Gepco® Brand permanent install triax features a precision-drawn, copper conductor and TactiCel™, a low-loss, gas-injected polyethylene dielectric. These processed materials achieve low attenuation, a precision 75 Ω impedance, low structural return loss and superior crush resistance. Two heavy-gauge, isolated braid shields provide excellent RF/EMI shielding and low DC resistance.

Features & Benefits

- Ultra-Low Attenuation
- Precision 75 Ω Impedance
- 3 GHz Bandwidth
- Low Structural Return Loss
- High Velocity of Propagation
- TactiCel Gas-Injected Foam Dielectric
- Two Isolated Copper Braids
- CMR Riser, CMP Plenum and Direct Burial Versions

Applications

- Digital or Analog Video Camera-to-CCU Interconnect
- Permanent Installation

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Type, OD) | Inner Shield | Inner Belt (Type, OD) | Outer Shield | Jacket | UL Type | Approx. Weight |
|---|------------|------------------|-----------------|---|--------------|------------------------|--------------|------------------------------------|---------|-------------------------|
| VT61811 | 1 | 0.475" (12.1 mm) | 14 AWG Solid BC | Gas-Injected Foam PE, 0.285" (7.24 mm) | 93% BC Braid | FRPE, 0.365" (9.27 mm) | 93% BC Braid | PVC, Black | CMR | 120 lbs/Mft (179 kg/km) |
| <i>Extended-Distance RG 11 Triax</i> | | | | | | | | | | |
| VT61811PEF | 1 | 0.475" (12.1 mm) | 14 AWG Solid BC | Gas-Injected Foam PE, 0.285" (7.24 mm) | 93% BC Braid | LDPE, 0.365" (9.27 mm) | 93% BC Braid | PE with Water Blocking Tape, Black | — | 125 lbs/Mft (186 kg/km) |
| <i>Extended-Distance RG 11 Triax: Direct Burial</i> | | | | | | | | | | |
| VT61811TK | 1 | 0.413" (10.5 mm) | 14 AWG Solid BC | Gas-Injected Foam FEP, 0.285" (7.24 mm) | 93% BC Braid | PVDF, 0.350" (8.89 mm) | 90% BC Braid | PVDF, White | CMP | 122 lbs/Mft (182 kg/km) |
| <i>Extended-Distance RG 11 Triax: Plenum</i> | | | | | | | | | | |
| VT61859 | 1 | 0.360" (9.1 mm) | 20 AWG Solid BC | Gas-Injected Foam PE, 0.146" (3.71 mm) | 95% BC Braid | FRPE, 0.216" (5.49 mm) | 95% BC Braid | PVC, Black | CMR | 80 lbs/Mft (119 kg/km) |
| <i>Thin Profile RG 59 Triax</i> | | | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-3 GHz) | Capacitance | Cond. DCR per Mft | Inner Shield DCR per Mft/Outer Shield DCR per Mft | Vel. of Prop. | Nominal Attenuation (dB per 100 ft) | | | | | | | | | | | |
|------------|-------------|--|-------------|-------------------|---|---------------|-------------------------------------|---------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|
| | | | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz |
| VT61811 | 75 Ω (+/-3) | >22 dB, >15 dB | 16.2 pF/ft | 2.5 Ω | 1.4 Ω/1.4 Ω | 84% | 0.14 | 0.28 | 0.43 | 1.09 | 1.50 | 2.30 | 2.68 | 4.05 | 5.00 | 6.28 | 7.95 | 9.60 |
| VT61811PEF | 75 Ω (+/-3) | >22 dB, >15 dB | 16.2 pF/ft | 2.5 Ω | 1.4 Ω/1.4 Ω | 84% | 0.14 | 0.28 | 0.43 | 1.09 | 1.50 | 2.30 | 2.68 | 4.05 | 5.00 | 6.28 | 7.95 | 9.60 |
| VT61811TK | 75 Ω (+/-3) | >20 dB, >15 dB | 16.5 pF/ft | 2.5 Ω | 1.4 Ω/1.3 Ω | 84% | 0.14 | 0.25 | 0.40 | 1.22 | 1.82 | 2.86 | 3.35 | 5.30 | 6.58 | 8.90 | 11.95 | 14.88 |
| VT61859 | 75 Ω (+/-3) | >22 dB, >15 dB | 16.3 pF/ft | 10.2 Ω | 2.6 Ω/2.0 Ω | 83% | 0.28 | 0.55 | 0.87 | 2.10 | 2.98 | 4.20 | 4.78 | 7.00 | 8.30 | 10.48 | 13.40 | 15.92 |

Triax Assembly



GTC - **Cable Type** - **Color** - **Length** - **Connector Format**

11C = VT61811
11D = VT61811PEF
11P = VT61811TK
59C = VT61859

0 = Black (VT61811, VT61811PEF, VT61859)
9 = White (VT61811TK)

In Feet

*No suffix designates Kings® Tri-Loc® Connectors (One Male, One Female)
 7705-1 & 7703-1 for VT61811/VT61811PEF
 7705-6 & 7703-8 for VT61811TK
 7705-2 & 7703-2 for VT61859

ADC = ADC® Pro-Ax™ (One Male, One Female)
 TCJ-A12 & TCP-A12 for VT61811/VT61811PEF
 TCJ-D38 & TCP-D38 for VT61811TK
 TCJ-B38 & TCP-B38 for VT61859

*ADC Global Standard – G-Series (Equivalent to Fischer Connectors® Series 1051 A004) also available.

Triax-to-Coax Adapters

Triax-to-coax adapters are manufactured from true 75 Ω 7700 series Kings Tri-Loc® and BNC connectors. Available in male or female Tri-Loc® versions, both feature a female BNC with a straight-through connection from pin-to-pin, while the outer and inner shield of the Tri-Loc® are electrically in common with each other and the BNC shield. Not recommended for powering Triax cameras over coax without a ground connection.



| Part # | Description |
|------------|-------------------------------|
| TCM | Male Tri-Loc® to Female BNC |
| TCF | Female Tri-Loc® to Female BNC |

Kings and Tri-Loc are registered trademarks of Kings Electronics Company, Inc. Neutrik is a registered trademark of Neutrik AG. ADC and Pro-Ax are trademarks of ADC Telecommunication, Inc. Fischer Connectors is a registered trademark of Fischer Connectors SA.

SMPTE Hybrid Fiber Cable Tester



The only tester needed for hybrid fiber camera cables, the SMPTE-304TS has a portable, hand-held design and provides over 40 hours of continuous use without recharging. The tester's intuitive diagnostic OLED backlit display graphically depicts which contact is defective or pinned out incorrectly.

An optional SMPTE launch cable can be used to zero out the tester and see exact insertion loss.

Features & Benefits

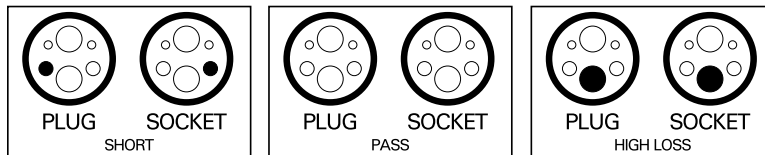
- Compact, Hand-Held Design
- Compatible with All SMPTE 304 Standard Cables
- Rechargeable Battery Lasts for More than 40 Hours
- Tests Both Electrical and Optical Circuits
- Checks All Conductors (Pin for Pin) and Fibers
- Ruggedized ABS Plastic Carrying Case
- Intuitive Diagnostic OLED Backlit Display
 - Easily Seen in Direct Sunlight or at Night
 - Graphically Depicts Which Contact is Defective or Pinned Out Incorrectly

Applications

- HD Trucks
- Sports/Events Broadcasting
- Fixed or Mobile Facilities

Specifications

| Part Number | Set | Frame | Connectors | Display | Insertion Loss | Return Loss | Accessories Included |
|--------------------------------------|--|--|--|---|----------------|-------------|--|
| SMPTE-304TS Complete Test Set | (1) Metering Unit (1) Optical Source Unit | Black Aluminum, 6" H x 3" W x 2" D (Each Unit) | SMPTE 304 Standard, Stainless Steel with UPC Polish on Fiber Contacts | OLED Backlit Display (2" x 3") 100 x 160 Resolution | ≤ 0.5 dB | > 45 dB | Ruggedized ABS Plastic Carrying, Rechargeable NiMH Battery with Charger, 6' USB to USB-Mini Charging Cable |



The intuitive graphical diagnostic display shows which element of the cable assembly is defective.

Optional SMPTE Launch Cable

The SMPTE launch cable can be used in series with the SMPTE tester to aid in creating a "0 dB" or Dark Calibration reference point when testing installed SMPTE 311/304 type systems. It is recommended that a launch cable be used to zero out any loss elements that may exist in the test set. **See operations manual.**



GHF92A-0-10-OB



Ruggedized ABS Plastic Carrying Case

7.2 mm Hybrid Fiber Optic



Radically different from typical industry products, but with the same performance characteristics of traditional SMPTE 311 cables, the new Gepco® Brand HDC720HD 7.2 mm hybrid fiber cable solves the most common durability issues associated with SMPTE camera cables in a design that is 31% smaller and 40% lighter. The revolutionary construction of the HDC720HD starts with replacing the typical heavy steel strength member with a Kevlar® version that has the same pull strength of steel, but is lighter and more flexible. Unlike steel, the Kevlar strength member expands and contracts at the same rate as the glass members during temperature extremes. Using Kevlar in place of steel also means the cable has virtually no memory, making the cable easier to pay off, lay flat and wind back up on the drum. For further durability, the HDC720HD utilizes bend-insensitive fiber elements with very low attenuation and a bend radius of 0.2 mm—versus 2.0 mm for traditional single-mode fiber—in a breakout style with additional Kevlar® protection around the individual fibers. The typical outer braid is replaced with two 18 AWG drain wires that allow the cable to be more flexible, lighter and smaller in diameter. The master jacket is a rugged polyurethane with a glossy finish that reduces the pickup of dirt and debris.

Features & Benefits

- Extremely Durable and Lightweight
- 7.2 mm Diameter Allows 31% More Cable per Reel
- Breakout Bend-Insensitive Optical Fibers with Kevlar® & PVC Jackets
- Virtually No Memory
- Strong Kevlar® Strength Member with Same Pull Strength as Steel
- Large Conductors for Camera Power
- Four Large-Gauge Copper Conductors
- Heat-Resistant
- Heavy-Duty Polyurethane Jacket

Applications

- High-Definition Camera-to-CCU Interconnect
- Portable Cables
- Studio or Remote Environments
- High-Definition Steadicams®

Mechanical Specifications (General)

| Part # | Nominal OD | Master Jacket (Type, Colors) | Overall Shield | Approx. Weight |
|----------|------------|------------------------------|--|-----------------------|
| HDC720HD | 7.2 mm | Polyurethane, Black | 100% Foil with 2 x 18 AWG (7x26) Stranded TC | 54 lbs/Mft (80 kg/km) |

Heavy-Duty 7.2 mm Hybrid Camera Cable

Mechanical Specifications (Components)

| Component | Number | Type | Insulation (Type, OD) | Color Code |
|-----------------|--------|---|--|----------------------|
| Optical | 2 | Single-Mode Bend-Insensitive Fiber Optic (8.3µm Mode Field, 125µm Cladding) | CPE Fiber Coating, Kevlar® Wrap, Tight Tube PVC Jacket, 0.062" (1.57 mm) Finished O.D. | One Blue, One Yellow |
| Signal | 2 | 24 AWG (7x32) Stranded TC | PE, 0.045" (1.14 mm) | One Red, One Gray |
| Auxiliary | 2 | 16 AWG (65x34) Stranded TC | PE, 0.079" (2.01 mm) | One Black, One White |
| Strength Member | 1 | Kevlar® Strength Member | PE, 0.072" (1.83 mm) | Yellow |

Electrical & Optical Specifications

| Fiber Attenuation | Signal Conductor DCR | Power Conductor DCR | Shield DCR | Insulation Resistance (Power or Signal) | Dielectric Strength (Power or Signal) | Operating Temperature |
|---------------------------|----------------------|---------------------|------------|---|--|--------------------------------------|
| <0.50 dB/km @ 1310/1550nm | 23.8 Ω/Mft | 4.01 Ω/Mft | 2.93 Ω/Mft | >10M Ω/km | 3000 Volts RMS @ 20°C, 60Hz for 1 min. | -40°C to +75°C (@ 0 to 95% humidity) |

7.2 mm Portable, Heavy-Duty

Features

Machine Polished -55 dB RL (Typical)



| Cable Type | Color | Standard Lengths | Overbody Boot |
|------------|-------|--|---------------|
| GHF72HD | 0 | | OB |
| HDC720HD | Black | 50' 328' 100' 500' 164' 656' 250' | |

Connectors

LEMO® SMPTE 304 Hybrid Connectors - 1 Plug, 1 Socket with Metal Dust Caps

Kevlar is a registered trademark of E. I. du Pont de Nemours and Company. Steadicam is a registered trademark of the Tiffen Company.

9.2 mm Hybrid Fiber Optic



Gepeco® Brand fiber optic and copper conductor SMPTE 311 hybrid cable is available for high-definition video cameras. In the hybrid 311 format, the HD video signal is transmitted over two single-mode optical fibers to ensure accurate and extended-distance data transmission. To increase the durability, a special nylon-based polymer with increased tensile strength is used for the fiber coatings, and a 16 AWG steel strength member is cabled at the center of the cable core. All copper elements feature heat-resistant PE insulation and are shielded by a dense 95% copper braid. The HDC920 comes in an extra-flexible, abrasion-resistant TPE compound that is ideal for portable, studio and outdoor broadcast applications, while the HDC920R comes in a flexible, riser rated PVC outer jacket for permanent installation applications. Designed for permanent underground installation, the HDC920PEF has an extra-rugged polyethylene jacket and water blocking tape wrapped around the cable core.

Features & Benefits

- Ultra-Low Attenuation
- SMPTE 311 Compliant
- Single-Mode Optical Glass Fibers
- Proprietary Fiber Coating for Increased Tensile Strength
- Six Copper Conductors
- Heat-Resistant
- Strength Member for Additional Durability
- Copper Braid Shield
- Water-Blocking Tape (HDC920PEF)

Applications

- High-Definition Camera-to-CCU Interconnect
- Permanent Installation (HDC920R)
- Portable Cables (HDC920)
- Studio or Remote Environments
- Direct Burial Permanent Installation (HDC920PEF)

Mechanical Specifications (General)

| Part # | Nominal OD | Master Jacket (Type, Colors) | Overall Shield | UL Type | Approx. Weight |
|------------------|------------|--|----------------|---------|------------------------|
| HDC920 | 9.2 mm | Flexible TPE, Black | 95% TC Braid | — | 90 lbs/Mft (134 kg/km) |
| | | Extra-Flexible 9.2 mm Hybrid Camera Cable | | | |
| HDC920R | 9.2 mm | PVC, Black | 95% TC Braid | CMR | 91 lbs/Mft (140 kg/km) |
| | | Permanent Install 9.2 mm Hybrid Camera Cable | | | |
| HDC920PEF | 9.2 mm | PE, Black | 95% TC Braid | — | 85 lbs/Mft (127 kg/km) |
| | | Direct Burial 9.2 mm Hybrid Fiber Camera Cable | | | |

Mechanical Specifications (Components)

| Component | Number | Type | Insulation (Type, OD) | Color Code |
|-----------------|--------|--|--------------------------|----------------------|
| Optical | 2 | Single Mode 8.3µm Mode Field, 125µm Cladding | CPE Tight Buffer, 0.9 mm | One Blue, One Yellow |
| Signal | 2 | 24 AWG (7x32) Stranded TC | PE, 0.045" (1.14 mm) | One Red, One Gray |
| Auxiliary | 4 | 20 AWG (19x32) Stranded TC | PE, 0.060" (1.52 mm) | Two White, Two Black |
| Strength Member | 1 | 16 AWG Stranded Steel | PVC, 0.084" (2.13 mm) | One White |

Electrical & Optical Specifications

| Fiber Attenuation | Signal Conductor DCR | Power Conductor DCR | Shield DCR | Insulation Resistance (Power or Signal) | Dielectric Strength (Power or Signal) | Operating Temperature | SMPTE Standard |
|---------------------------|----------------------|---------------------|------------|---|---|--------------------------------------|----------------------------------|
| <0.70 dB/km @ 1310/1550nm | 23.8 Ω/Mft | 9.7 Ω/Mft | 5.4 Ω/Mft | >10M Ω/km | 3000 Volts RMS @ 20°C, 60 Hz for 1 min. | -40°C to +75°C (@ 0 to 95% humidity) | 311 Compliant (Meets or Exceeds) |

9.2 mm Portable, Extra-Flexible

Features

Machine Polished -55 dB RL (Typical)
Meets or Exceeds SMPTE 304/311 Standards



| Cable Type | Color | Standard Lengths | Overbody Boot | Connectors |
|---------------|----------|--|---------------|---|
| GHF92A | 0 | | OB | LEMO® SMPTE 304 Hybrid Connectors - 1 Plug, 1 Socket with Metal Dust Caps |
| HDC920 | Black | 50' 328' 100' 500' 164' 656' 250' | | |

9.2 mm Permanent Install

Features

Machine Polished -55 dB RL (Typical)
Meets or Exceeds SMPTE 304/311 Standards



| Cable Type | Color | Standard Lengths | LEMO® SMPTE 304 Hybrid Connector Format |
|---------------|----------|--|---|
| GHF92B | 0 | | |
| HDC920R | Black | 50' 328' 100' 500' 164' 656' 250' | *No suffix designates 1 Plug & 1 Socket PB = 1 Plug Bulkhead, 1 Socket SB = 1 Socket Bulkhead, 1 Plug SPB = 1 Plug Bulkhead, 1 Socket Bulkhead **All sockets have metal dust caps. |

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9.2 mm Hybrid Fiber Optic: Heavy Duty



Gepco® Brand extra-durable 9.2 mm hybrid fiber cable provides improved durability in high-definition camera-to-CCU interconnects. In addition to the steel strength member and nylon-based polymer fiber coating, each fiber optic element has a Kevlar® wrap and PVC jacket for greater strength and protection. For the power elements, HDC920HD utilizes two signal and four auxiliary conductors. All copper elements now feature heat-resistant PE insulation and are shielded by a dense 95% copper braid. For additional durability, the outer jacket is made with an extra-tough polyurethane compound that is exceptionally abrasion- and puncture-resistant.

Features & Benefits

- Ultra-Low Attenuation
- SMPTE 311 Compliant
- Single-Mode Optical Glass Fibers with Kevlar® & PVC Jackets
- Proprietary Fiber Coating for Increased Tensile Strength
- Six Copper Conductors
- Heat-Resistant
- Strength Member for Additional Durability
- Copper Braid Shield
- Heavy-Duty Polyurethane Jacket

Applications

- High-Definition Camera-to-CCU Interconnect
- Portable Cables
- Studio or Remote Environments

| Mechanical Specifications (General) | | | | |
|-------------------------------------|--|------------------------------|----------------|-------------------------|
| Part # | Nominal OD | Master Jacket (Type, Colors) | Overall Shield | Approx. Weight |
| HDC920HD | 9.2 mm | Polyurethane, Black | 95% TC Braid | 95 lbs/Mft (142 kg/km) |
| | Heavy-Duty 9.2 mm Hybrid Camera Cable | | | |
| HDC920HDG | 9.2 mm | Polyurethane, Black | 95% TC Braid | 100 lbs/Mft (149 kg/km) |
| | Glossy Heavy-Duty 9.2 mm Hybrid Camera Cable | | | |

| Mechanical Specifications (Components) | | | | |
|--|--------|--|--|----------------------|
| Component | Number | Type | Insulation (Type, OD) | Color Code |
| Optical | 2 | Single-Mode Fiber Optic (8.3µm Mode Field, 125µm Cladding) | CPE Fiber Coating, Kevlar® Wrap, Tight Tube PVC Jacket, 0.062" (1.58 mm) Finished O.D. | One Blue, One Yellow |
| Signal | 2 | 24 AWG (7x32) Stranded TC | PE, 0.045" (1.14 mm) | One Red, One Gray |
| Auxiliary | 4 | 20 AWG (19x32) Stranded TC | PE, 0.060" (1.52 mm) | Two White, Two Black |
| Strength Member | 1 | 16 AWG Stranded Steel | PVC, 0.084" (2.13 mm) | One White |

| Electrical & Optical Specifications | | | | | | | |
|-------------------------------------|----------------------|---------------------|------------|---|--|--------------------------------------|----------------------------------|
| Fiber Attenuation | Signal Conductor DCR | Power Conductor DCR | Shield DCR | Insulation Resistance (Power or Signal) | Dielectric Strength (Power or Signal) | Operating Temperature | SMPTE Standard |
| <0.70 dB/km @ 1310/1550nm | 23.8 Ω/Mft | 9.7 Ω/Mft | 5.4 Ω/Mft | >10M Ω/km | 3000 Volts RMS @ 20°C, 60Hz for 1 min. | -40°C to +75°C (@ 0 to 95% humidity) | 311 Compliant (Meets or Exceeds) |

9.2 mm Portable, Heavy-Duty

Features

Machine Polished -55 dB RL (Typical)
Meets or Exceeds SMPTE 304/311 Standards



| Cable Type | Color | Standard Lengths | Overbody Boot | Connectors |
|------------|-------|--|---------------|---|
| GHF92HD | 0 | | OB | LEMO® SMPTE 304 Hybrid Connectors - 1 Plug, 1 Socket with Metal Dust Caps |
| HDC920HD | Black | 50' 328' 100' 500' 164' 656' 250' | | |

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12 mm Heavy-Duty Hybrid Fiber Optic



Gepeco® Brand extra-durable 12 mm hybrid fiber cable provides improved durability in high-definition camera-to-CCU interconnects. In addition to the steel strength member and nylon-based polymer fiber coating, each fiber optic element has a Kevlar® wrap and PVC jacket for greater strength and protection. For the power elements, HDC120P utilizes two auxiliary conductors for streamlined termination, thereby reducing the possibility of electrical faults. All copper elements now feature heat-resistant PE insulation and are shielded by a dense 95% copper braid. For additional durability, the outer jacket is made with an extra-tough polyurethane compound that is exceptionally abrasion- and puncture-resistant.

Features & Benefits

- Ultra-Low Attenuation
- SMPTE 311 Compliant
- Single-Mode Optical Fibers with Kevlar® & PVC Jackets
- Proprietary Fiber Coating for Increased Tensile Strength
- Four Large-Gauge Copper Conductors
- Heat-Resistant
- Strength Member for Additional Durability
- Heavy-Duty Polyurethane Jacket

Applications

- High-Definition Camera-to-CCU Interconnect
- Portable Cables
- Studio or Remote Environments

Mechanical Specifications (General)

| Part # | Nominal OD | Master Jacket (Type, Colors) | Overall Shield | Approx. Weight |
|--|------------|------------------------------|----------------|-------------------------|
| HDC120P | 12.0 mm | Polyurethane, Black | 95% TC Braid | 135 lbs/Mft (201 kg/km) |
| Heavy-Duty 12 mm Hybrid Fiber Camera Cable | | | | |

Mechanical Specifications (Components)

| Component | Number | Type | Insulation (Type, OD) | Color Code |
|-----------------|--------|--|--|----------------------|
| Optical | 2 | Single-Mode Fiber Optic (8.3µm Mode Field, 125µm Cladding) | CPE Fiber Coating, Kevlar® Wrap, Tight Tube PVC Jacket, 0.062" (1.57 mm) Finished O.D. | One Blue, One Yellow |
| Signal | 2 | 24 AWG (19x36) Stranded TC | PE, 0.044" (1.11 mm) | One Red, One Gray |
| Auxiliary | 2 | 16 AWG (65x34) Stranded TC | PE, 0.084" (2.13 mm) | One White, One Black |
| Strength Member | 1 | 16 AWG Stranded Steel | PVC, 0.087" (2.21 mm) | One White |

Electrical & Optical Specifications

| Fiber Attenuation | Signal Conductor DCR | Power Conductor DCR | Shield DCR | Insulation Resistance (Power or Signal) | Dielectric Strength (Power or Signal) | Operating Temperature | SMPTE Standard |
|---------------------------|----------------------|---------------------|------------|---|--|--------------------------------------|----------------------------------|
| <0.70 dB/km @ 1310/1550nm | 23.8 Ω/Mft | 4.5 Ω/Mft | 2.6 Ω/Mft | >10M Ω/km | 3000 Volts RMS @ 20°C, 60Hz for 1 min. | -40°C to +75°C (@ 0 to 95% humidity) | 311 Compliant (Meets or Exceeds) |

12 mm Portable, Heavy-Duty

Features

Machine Polished -55 dB RL (Typical)
Meets or Exceeds SMPTE 304/311 Standards



| Cable Type | Color | Standard Lengths | Overbody Boot |
|---------------|----------|--|---------------|
| GHF12B | 0 | | OB |
| HDC120P | Black | 50' 328' 100' 500' 164' 656' 250' | |

Connectors

LEMO® SMPTE 304 Hybrid Connectors -
1 Plug, 1 Socket with Metal Dust Caps

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16 mm Heavy-Duty Hybrid Fiber Optic



Gepco® Brand fiber optic and copper conductor SMPTE 311 hybrid cable is available for high-definition video cameras. In the hybrid 311 format, the HD video signal is transmitted over two single-mode optical fibers to ensure accurate and extended-distance data transmission. To increase the durability, a special nylon-based polymer with increased tensile strength is used for the fiber coatings, and a 16 AWG steel strength member is cabled at the center of the cable core. All copper elements now feature heat-resistant PE insulation and are shielded by a dense 95% copper braid. The HDC160 features a double-jacket construction for extra durability and increased diameter.

Features & Benefits

- Ultra-Low Attenuation
- SMPTE 311 Compliant
- Single-Mode Optical Glass Fibers
- Proprietary Fiber Coating for Increased Tensile Strength
- Six Copper Conductors
- Heat-Resistant
- Strength Member for Additional Durability
- Copper Braid Shield
- Double (PU & PVC) Jackets

Applications

- High-Definition Camera-to-CCU Interconnect
- Portable Cables
- Studio or Remote Environments

Mechanical Specifications (General)

| Part # | Nominal OD | Inner Jacket (Type, Colors, Diameter) | Outer Jacket (Type, Colors) | Overall Shield | Approx. Weight |
|---|------------|---------------------------------------|-----------------------------|----------------|-------------------------|
| HDC160 | 16.0 mm | Flexible PVC, Black, 9.2 mm | Polyurethane, Black | 95% TC Braid | 195 lbs/Mft (291 kg/km) |
| <i>Extra-Flexible 16 mm Hybrid Camera Cable</i> | | | | | |

Mechanical Specifications (Components)

| Component | Number | Type | Insulation (Type, OD) | Color Code |
|-----------------|--------|--|--------------------------|----------------------|
| Optical | 2 | Single Mode 8.3µm Mode Field, 125µm Cladding | CPE Tight Buffer, 0.9 mm | One Blue, One Yellow |
| Signal | 2 | 24 AWG (7x32) Stranded TC | PE, 0.045" (1.14 mm) | One Red, One Gray |
| Auxiliary | 4 | 20 AWG (19x32) Stranded TC | PE, 0.060" (1.52 mm) | Two White, Two Black |
| Strength Member | 1 | 16 AWG Stranded Steel | PVC, 0.084" (2.13 mm) | One White |

Electrical & Optical Specifications

| Fiber Attenuation | Signal Conductor DCR | Power Conductor DCR | Shield DCR | Insulation Resistance (Power or Signal) | Dielectric Strength (Power or Signal) | Operating Temperature | SMPTE Standard |
|---------------------------|----------------------|---------------------|------------|---|---|--------------------------------------|----------------------------------|
| <0.70 dB/km @ 1310/1550nm | 23.8 Ω/Mft | 9.7 Ω/Mft | 5.4 Ω/Mft | >10M Ω/km | 3000 Volts RMS @ 20°C, 60 Hz for 1 min. | -40°C to +75°C (@ 0 to 95% humidity) | 311 Compliant (Meets or Exceeds) |

16 mm Portable, Heavy-Duty

Features

Machine Polished -55 dB RL (Typical)
Meets or Exceeds SMPTE 304/311 Standards



| Cable Type | Color | Standard Lengths | Overbody Boot | Connectors |
|---------------|----------|--|---------------|---|
| GHF16A | 0 | | OB | LEMO® SMPTE 304 Hybrid Connectors - 1 Plug, 1 Socket with Metal Dust Caps |
| HDC160 | Black | 50' 328' 100' 500' 164' 656' 250' | | |

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3-Channel Permanent-Installation Hybrid Fiber



Gepeco® Brand HDC3R 3-channel hybrid fiber cable is a unique solution for the distribution of up to three SMPTE hybrid fiber camera positions in a permanent installation application. Each channel within the HDC3R features a group of elements that consist of two single-mode fibers, two auxiliary copper conductors, two signal copper conductors and a foil shield with drain wire. The foil shields feature nonconductive backings and edges to provide electrical isolation between the three shields. The single-mode fiber elements feature a break-out-style Kevlar® and PVC jacket construction for added durability and secure connector termination. The PVC jacket is orange with a yellow stripe for easy identification and has a low-friction surface for easy installation through conduit.

Features & Benefits

- Unique Hybrid Composite Construction
- Low-Loss Single-Mode Optical Fiber
- Three Groups of Fiber and Copper Elements
- Interconnects up to Three SMPTE 304 Based HD Camera Systems
- Single Pull Installation
- UL Riser Rated

Applications

- High-Definition Camera-to-CCU Interconnect
- Permanent Installation

Mechanical Specifications (General)

| Part # | Nominal OD | Master Jacket (Type, Colors) | UL Type | Approx. Weight |
|--------|------------------|--------------------------------|---------|-------------------------|
| HDC3R | 0.600" (15.2 mm) | PVC, Orange with Yellow Stripe | CMR | 170 lbs/Mft (253 kg/km) |

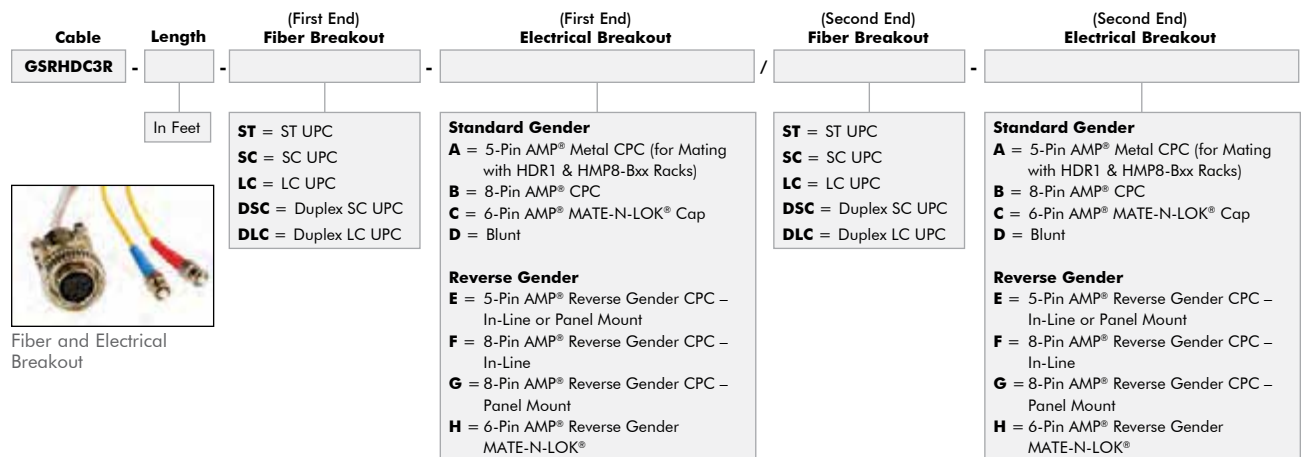
3-Channel Hybrid Fiber Camera Cable

Mechanical Specifications (Components)

| Component | Number | Type | Insulation (Type, OD) | Color Code |
|-----------|-------------------|--|--|--|
| Optical | 6 (3 Groups of 2) | Single-Mode Fiber Optic (8.3µm Mode Field, 125µm Cladding) | PVC Fiber Coating, Kevlar® Wrap, Tube PVC Jacket, 3 mm Finished O.D. | Yellow with Alphanumeric Print |
| Signal | 6 (3 Groups of 2) | 24 AWG (17x32) Stranded TC | PVC, 0.040" (1.02 mm) | One Red, One Gray (Solid or with Yellow or Orange Stripe) |
| Auxiliary | 6 (3 Groups of 2) | 18 AWG (19x30) Stranded TC | PVC, 0.082" (2.08 mm) | One White, One Black (Solid or with Yellow or Orange Stripe) |

Electrical & Optical Specifications

| Fiber Attenuation | Signal Conductor DCR | Power Conductor DCR | Insulation Resistance (Power or Signal) | Dielectric Strength (Power or Signal) | Operating Temperature |
|---------------------------|----------------------|---------------------|---|---|--------------------------------------|
| <0.70 dB/km @ 1310/1550nm | 23.8 Ω/Mft | 6.0 Ω/Mft | >10M Ω/km | 3000 Volts RMS @ 20°C, 60 Hz for 1 min. | -40°C to +75°C (@ 0 to 95% humidity) |



Fiber Breakout Connector Options

Angled polished versions are available by request.



Electrical Breakout Connector Options



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HD Camera Electrical



Unique Gepco® Brand electrical cables are constructed from only the copper elements utilized in the hybrid fiber camera cables. When used with single-mode fiber optic cables and Gepco hybrid fiber distribution systems, the HDP221 cable provides an alternative when permanently installing rack-to-rack infrastructure wiring. A number of Gepco's breakout systems allow for a hybrid fiber connector's elements to be distributed over separate copper and optical cables. This greatly simplifies on-site HD camera permanent installation cabling and termination.

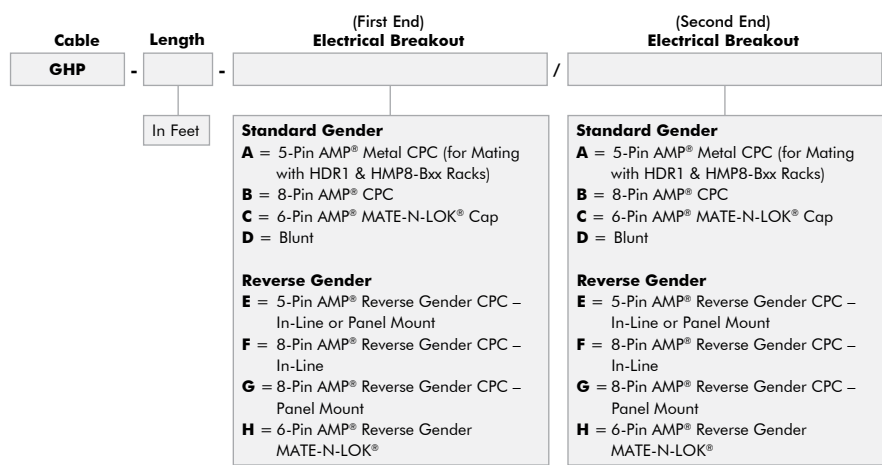
Features & Benefits

- Specialized Electrical-Only Design
- Four Large-Gauge Copper Conductors
- Heat-Resistant
- Tinned-Copper Braid Shield
- UL Riser Rated

Applications

- Interconnection of Electrical Contacts from CCUs to HD Cameras
- For Permanent Installation Environments
- Used in Conjunction with Single-Mode Indoor Fiber
- Ideal for Use with Gepco® Brand Hybrid Fiber Distribution Solutions

| Mechanical Specifications | | | | | | | | | | |
|---|-------------------------|-----------------|---|---|--------------------------------------|--|--------------|-----------------------|---------|------------------------|
| Part # | # of Conductors | Nominal OD | Auxiliary Conductors | Auxiliary Insulation (Type, OD) | Signal Conductors | Signal Insulation | Shield | Jacket (Type, Colors) | UL Type | Approx. Weight |
| HDP221 | 2 Auxiliary 2 Signal | 0.315" (8.0 mm) | 16 AWG (65x34) Stranded TC | PE, 0.020" (0.51 mm) | 22 AWG (19x34) Stranded TC | PE, 0.015" (0.38 mm) | 90% TC Braid | PVC, Black | CMR | 76 lbs/Mft (113 kg/km) |
| <i>Single-Channel HD Electrical Cable</i> | | | | | | | | | | |
| Electrical & Optical Specifications | | | | | | | | | | |
| Signal Conductor DCR | Power Conductor DCR | Shield DCR | Insulation Resistance (Power or Signal) | Dielectric Strength (Power or Signal) | Operating Temperature | SMPTE Standard | | | | |
| 15.3 Ω/Mft | 4.5 Ω/Mft | 2.6 Ω/Mft | >10M Ω/km | 3000 Volts RMS @ 20°C, 60 Hz for 1 min. | -40°C to +75°C (@ 0 to 95% humidity) | Compliant with Electrical Specifications for SMPTE 311 | | | | |



Electrical Breakout Connector Options



AMP and MATE-N-LOK are registered trademarks of Whitaker Corporation.



Single-Mode Fiber Optic: Tactical



Designed for portable applications in harsh environments, Gepco® Brand tactical single-mode fiber optic cables are exceptionally rugged and light-weight and are available in both distribution and breakout style constructions. All tactical cables feature an abrasion-, chemical- and cut-resistant outer polyurethane jacket. The 125 μ m single-mode fiber elements are coated with a 900 μ m, hard elastomeric, tight-buffer. Available in two series, the distribution series features an aramid strength member filler for exceptional strength, while the breakout series features aramid strength members within a tube elastomeric jacket for each fiber to provide additional strength and crush resistance.

Features & Benefits

- Exceptionally Rugged
- Crush-Resistant
- Low-Loss Single-Mode Fiber
- Distribution & Breakout Type Constructions
- Aramid Filler
- Heavy-Duty Polyurethane Outer Jacket
- Meets or Exceeds TIA/EIA (Military Requirements)

Applications

- Portable Applications
- Outdoor Broadcast
- Staging
- Hostile Environments
- Digital Video, Audio or Networking

Fiber Specifications

| Type | Mode Field Diameter | Cladding Diameter | Maximum Attenuation |
|-------------|---------------------|-------------------|---------------------------------|
| Single-Mode | 8.3 μ m | 125 μ m | \leq 0.50 dB/Km @ 1310/1550nm |

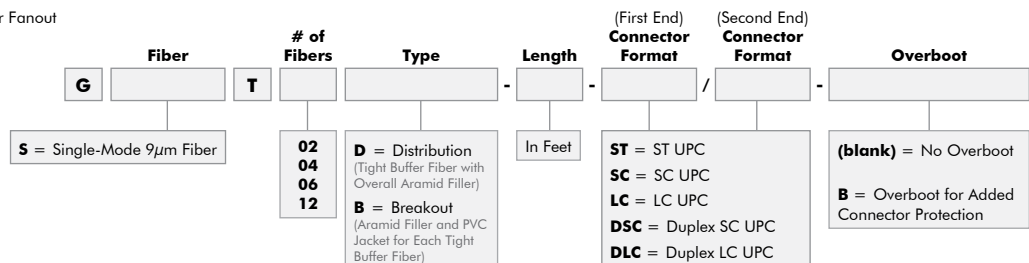
Mechanical Specifications

| Part # | Fiber Buffer | Outer Jacket | Crush Resistance | Impact Resistance | Flex Resistance | Operating Temp. | Storage Temp. | Number of Elements | Nominal OD | Tensile Load | | Minimum Bend Radius | | Weight |
|--|---|--------------|------------------|-------------------|-----------------|-----------------|----------------|--------------------|------------------|--------------|-----------|------------------------|--------------|-----------------------|
| | | | | | | | | | | Short Term | Long Term | Installation (Pulling) | Operating | |
| FSD**T * = Number of Elements | Acrylate Tight Buffer Coating (0.9 mm OD) with Overall Aramid Filler | PU, Black | 440 N/cm | 200 Impacts | 2000 Cycles | -55°C to +85°C | -70°C to +85°C | 2 | 0.200" (5.1 mm) | 1,800 lbs | 600 lbs | 3.2" (81 mm) | 1.6" (41 mm) | 15 lbs/Mft (22 kg/km) |
| | | | | | | | | 4 | 0.220" (5.6 mm) | 1,800 lbs | 600 lbs | 3.6" (91 mm) | 1.8" (46 mm) | 19 lbs/Mft (28 kg/km) |
| | | | | | | | | 6 | 0.240" (6.1 mm) | 1,800 lbs | 600 lbs | 3.8" (97 mm) | 1.9" (48 mm) | 19 lbs/Mft (28 kg/km) |
| | | | | | | | | 12 | 0.260" (6.6 mm) | 2,100 lbs | 700 lbs | 4.2" (107 mm) | 2.1" (53 mm) | 34 lbs/Mft (51 kg/km) |
| Tactical Single-Mode Fiber: Distribution | | | | | | | | | | | | | | |
| FSB**T * = Number of Elements | Acrylate Tight Buffer Coating (0.9 mm OD) with Aramid Filler & PVC Tube Jacket for Each Fiber | PU, Black | 440 N/cm | 200 Impacts | 2000 Cycles | -55°C to +85°C | -70°C to +85°C | 2 | 0.260" (6.6 mm) | 2,200 lbs | 550 lbs | 4.2" (107 mm) | 2.1" (53 mm) | 21 lbs/Mft (31 kg/km) |
| | | | | | | | | 4 | 0.290" (7.4 mm) | 2,200 lbs | 550 lbs | 4.6" (117 mm) | 2.3" (58 mm) | 28 lbs/Mft (43 kg/km) |
| | | | | | | | | 6 | 0.340" (8.6 mm) | 2,400 lbs | 600 lbs | 5.4" (137 mm) | 2.7" (69 mm) | 36 lbs/Mft (53 kg/km) |
| | | | | | | | | 12 | 0.480" (12.2 mm) | 4,800 lbs | 1,200 lbs | 7.6" (193 mm) | 3.8" (97 mm) | 65 lbs/Mft (97 kg/km) |
| Tactical Single-Mode Fiber: Breakout | | | | | | | | | | | | | | |

ST/SC/LC Tactical Snake Assemblies

Features

- Machine Polished -55 dB RL (Typical) UPC Quality
- 100% Tested & Verified
- Precision Fiber Connectors
- Optional Overboot Protects Connector Fanout



Multi-Mode Fiber Optic: Tactical



Designed for portable applications in harsh environments, Gepco® Brand tactical multi-mode fiber optic cables are exceptionally rugged and light-weight and are available in both distribution and breakout style constructions. All tactical cables feature an abrasion-, chemical- and cut-resistant outer polyurethane jacket. The 125µm multi-mode fiber elements are coated with a 900µm, hard elastomeric, tight buffer. Available in two series, the distribution series features an aramid strength member filler for exceptional strength, while the breakout series features aramid strength members within a tube elastomeric jacket for each fiber to provide additional strength and crush resistance.

Features & Benefits

- Exceptionally Rugged
- Crush-Resistant
- Low-Loss Multi-Mode Fiber
- Distribution & Breakout Type Constructions
- Aramid Filler
- Heavy-Duty Polyurethane Outer Jacket
- Meets or Exceeds TIA/EIA (Military Requirements)

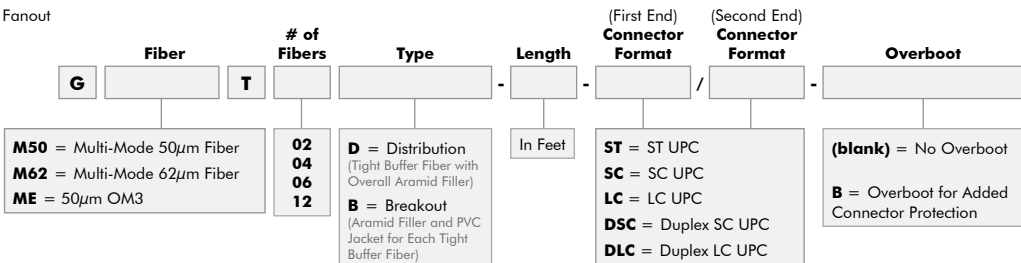
Applications

- Portable Applications
- Outdoor Broadcast
- Staging
- Hostile Environments
- Digital Video, Audio or Networking

| Fiber Specifications | | | | | | | | | | | | | | |
|---|---|--------------|------------------|-------------------|-------------------|-----------------|----------------|--------------------|--|------------|---------------------|------------------------|--------------|-----------------------|
| Type | Mode Field Diameter | | | | Cladding Diameter | | | | Maximum Attenuation | | | | | |
| Multi-Mode | 62.5µm | | | | 125µm | | | | ≤ 3.50 dB/Km @ 850nm, ≤ 1.00 dB/Km @ 1550nm | | | | | |
| Mechanical Specifications | | | | | | | | | | | | | | |
| Part # | Fiber Buffer | Outer Jacket | Crush Resistance | Impact Resistance | Flex Resistance | Operating Temp. | Storage Temp. | Number of Elements | Tensile Load | | Minimum Bend Radius | | Weight | |
| | | | | | | | | | Nominal OD | Short Term | Long Term | Installation (Pulling) | | Operating |
| FMD**T * = Number of Elements | Acrylate Tight Buffer Coating (0.9 mm OD) with Overall Aramid Filler | PU, Black | 440 N/cm | 200 Impacts | 2000 Cycles | -55°C to +85°C | -70°C to +85°C | 2 | 0.200" (5.1 mm) | 1,800 lbs | 600 lbs | 3.2" (81 mm) | 1.6" (41 mm) | 15 lbs/Mft (22 kg/km) |
| | | | | | | | | 4 | 0.220" (5.6 mm) | 1,800 lbs | 600 lbs | 3.6" (91 mm) | 1.8" (46 mm) | 19 lbs/Mft (28 kg/km) |
| | | | | | | | | 6 | 0.240" (6.1 mm) | 1,800 lbs | 600 lbs | 3.8" (97 mm) | 1.9" (48 mm) | 19 lbs/Mft (28 kg/km) |
| | | | | | | | | 12 | 0.260" (6.6 mm) | 2,100 lbs | 700 lbs | 4.2" (107 mm) | 2.1" (53 mm) | 34 lbs/Mft (51 kg/km) |
| Tactical Multi-Mode Fiber: Distribution | | | | | | | | | | | | | | |
| FMB**T * = Number of Elements | Acrylate Tight Buffer Coating (0.9 mm OD) with Aramid Filler & PVC Tube Jacket for Each Fiber | PU, Black | 440 N/cm | 200 Impacts | 2000 Cycles | -55°C to +85°C | -70°C to +85°C | 2 | 0.260" (6.6 mm) | 2,200 lbs | 550 lbs | 4.2" (107 mm) | 2.1" (53 mm) | 21 lbs/Mft (31 kg/km) |
| | | | | | | | | 4 | 0.290" (7.4 mm) | 2,200 lbs | 550 lbs | 4.6" (117 mm) | 2.3" (58 mm) | 28 lbs/Mft (43 kg/km) |
| | | | | | | | | 6 | 0.340" (8.6 mm) | 2,400 lbs | 600 lbs | 5.4" (137 mm) | 2.7" (69 mm) | 36 lbs/Mft (53 kg/km) |
| | | | | | | | | 12 | 0.480" (12.2 mm) | 4,800 lbs | 1,200 lbs | 7.6" (193 mm) | 3.8" (97 mm) | 65 lbs/Mft (97 kg/km) |
| Tactical Multi-Mode Fiber: Breakout | | | | | | | | | | | | | | |

ST/SC/LC Tactical Snake Assemblies

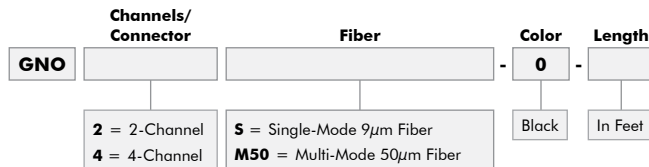
- Features**
 Machine Polished -55 dB RL (Typical) UPC Quality
 100% Tested & Verified
 Precision Fiber Connectors
 Optional Overboot Protects Connector Fanout



Neutrik® opticalCON® Fiber Optic Cable Assemblies



Neutrik® opticalCON® cable assemblies by Gepco provide a streamlined and ruggedized solution for the deployment and interfacing of optical fiber in commercial and professional A/V applications. The opticalCON connector features a ruggedized body design, high performance LC fiber contacts, and a unique shutter mechanism to protect against damage and contamination. Machine polished and terminated in the U.S.A., opticalCON assemblies by Gepco provide exceptionally low return-loss, low attenuation, and consistent end-face geometry. opticalCON assemblies are available in almost any length and are custom terminated to user specifications.



Also Available with Cable Reeler

Add reeler part number to suffix. Add "R" to end of part number. Standard configuration has cable mount connector on both ends. Optional bulkhead on reel is also available upon special request.



GT310-OFFEN



GT380-OFFEN



GT380-RM



GT450-RMFK

Features & Benefits

- Machine Polished
- Two or Four Fiber Channels per Connector
- Industry Standard LC Fiber Contacts
- Unique Shutter Mechanism Protects Contacts from Damage and Contamination
- 55 dB Return Loss (Typical)
- Ruggedized Body
- Tactical Optical Fiber Cable
- Additional Protection from Included Boot

Overall Specifications

of Channels: 2 or 4

Connectors: (2) Neutrik® opticalCON®, Black Chromium Plated Connector Body with Boot

Cable Type: Tactical, Polyurethane Jacket, 5 mm Diameter, Black

Available Lengths: 50', 100', 164', 250', 328', 500', 656', or Custom

Mechanical Performance Specifications

Cable Retention Force: 500N

Lifetime: >5000 Cycles

Insertion/Withdrawal Force: <45N

Operating Temperature: -40°C to +75°C

Minimum Bend Radius: 5 cm

Optical Performance Specifications

Type: LC-UPC (Straight Polish)

Fiber Type: 9µm Single-Mode Fiber or 50µm Multi-Mode Fiber

Cable Loss:

< 0.5 dB/km @ 1310/1550nm (Single-Mode)

< 3 dB/km @ 850nm (Multi-Mode)

< 1 dB/km @ 1300nm (Multi-Mode)

Connector Loss: <0.5 dB (per Connection)

Connector Back Reflection: -55 dB RL (Typical), -45 dB RL (Max)

Neutrik® opticalCON® Panel Mount Connectors & Accessories



CAS-FOCD opticalCON® Cleaning Kit

*Sold only to Neutrik-certified field assemblers; certification number required when ordering.

- Hand Microscope (400x Magnification) with Microscope Adapters for opticalCON® and 2.5 mm Ferrules
- opticalCON Cleaning Box (Contains lint-free wipes; optimized for opticalCON fiber cleaning.)
- DRY Cleaners for 1.25 mm and 2.5 mm
- Fiber Optic Cleaning Fluid (Non-Flammable)

Neutrik® Connector Specifications

| Part Number | Connector Description | Fiber | Shell Ground Contact | Mating |
|---------------------|----------------------------|------------------------------|----------------------|---|
| NO2-4FDW-A | Panel Mount opticalCON® | 2 | — | Mates with In-Line 2-Channel Neutrik® opticalCON® or Standard Duplex LC |
| NO2-4FDW-1-A | Panel Mount opticalCON® | 2 | 1 | Mates with In-Line 2-Channel Neutrik® opticalCON® or Standard Duplex LC |
| NO4FDW-A | Panel Mount opticalCON® | 4 | — | Mates with In-Line 4-Channel Neutrik® opticalCON® or Standard LC |
| NAO2M-H1W-A | Coupler opticalCON®, Black | 2 x LC-Duplex Multi-Mode PC | — | Mates with In-Line 2-Channel Neutrik® opticalCON® or Standard Duplex LC |
| NAO2S-H1W-A | Coupler opticalCON®, Blue | 2 x LC-Duplex Single-Mode PC | — | Mates with In-Line 2-Channel Neutrik® opticalCON® or Standard Duplex LC |
| NAO2SA-H1W-A | Coupler opticalCON®, Green | 2 x LC-Duplex Single-Mode PC | — | Mates with In-Line 2-Channel Neutrik® opticalCON® or Standard Duplex LC |
| NAO4MW-A | Coupler opticalCON®, Black | 4 x Multi-Mode PC | — | Mates with In-Line 4-Channel Neutrik® opticalCON® or Standard LC |
| NAO4SW-A | Coupler opticalCON®, Blue | 4 x Single-Mode PC | — | Mates with In-Line 4-Channel Neutrik® opticalCON® or Standard LC |
| NAO4SAW-A | Coupler opticalCON®, Green | 4 x Single-Mode APC | — | Mates with In-Line 4-Channel Neutrik® opticalCON® or Standard LC |
| NAO4SAW-AX | Coupler opticalCON®, Red | 4 x Single-Mode APC | — | Mates with In-Line 4-Channel Neutrik® opticalCON® or Standard LC |

Neutrik and opticalCON are registered trademarks of Neutrik AG.

TFOCA-II® and Pierside Assemblies



TFOCA-II® and Pierside cable assemblies are built for signal transmission over multiple optical fiber elements in hostile and portable applications. Each connector contains two, four or 12 elements in an extra-rugged, hermaphroditic connector shell. The hermaphroditic design enables cables to be mated to either TAC-2/4/12 panel connectors or other TAC-2/4/12 cables in any direction providing flexibility for cable link expansion and eliminating cables from being directionally misdeployed. Machine polished, these cables have exceptionally low return-loss and attenuation with consistent end-face geometry. TFOCA-II and Pierside cables are available in almost any length and are custom terminated to user specifications.

| Connector | Fiber Type | # of Fibers | Construction Type | Color | Length |
|---------------------------------------|-------------------------------------|----------------|----------------------------------|------------|---------|
| TFATT = TFOCA-II® TFATP = Pierside | S = Single-Mode M50 = Multi-Mode | 02 04 12 | B = Breakout D = Distribution | 0 Black | In Feet |

TACBeam™ Expanded Beam Assemblies



TACBeam™ cable assemblies are built for signal transmission over multiple optical fiber elements in hostile and portable applications. Each connector contains two or four elements in an extra-rugged, hermaphroditic connector shell. The hermaphroditic design enables cables to be mated in any direction, providing flexibility for cable link expansion and eliminating cables from being directionally misdeployed. Machine polished, TACBeam assemblies have exceptionally low return-loss and attenuation. TACBeam assemblies are available in almost any length and are custom terminated to user specifications.

| Fiber Type | # of Fibers | Length |
|-------------------------------------|-------------|---------|
| S = Single-Mode M50 = Multi-Mode | 02 04 | In Feet |

Features & Benefits

- Machine Polished
- 2, 4 or 12 Channels per Connector
- Hermaphroditic Design Enables Mating to Cable or Panel Mount Connectors in Either Direction
- Extra-Rugged Metal Shell with Dust Cap
- For Mobile Production Applications

Overall Specifications

of Channels: 2, 4, or 12

Connectors: (2) Amphenol® TFOCA-II® or (2) Pierside109 Series; Hermaphroditic, Zinc or Nickel Plating, Removable End-Cap Included

Cable Type: Tactical Single-Mode 9.2µm or Tactical Multi-Mode 50µm

Available Lengths: 50', 100', 164', 250', 328', 500', 656' or Custom

Mechanical Performance Specifications

Operating Temperature: -40°C to 71°C

Minimum Bend Radius: 4 cm

Optical Performance Specifications

Fiber Type: OS1 Single-Mode, OM3 Multi-Mode

Cable Loss: <0.5 dB/Km

Connector Loss:
0.30 dB Typical, 0.75 dB Maximum (Multi-Mode)
0.40 dB Typical, 0.75 dB Maximum (Single-Mode)

Connector Back Reflection: >55 dB

Features & Benefits

- Machine Polished
- 2 or 4 Channels per Connector
- Hermaphroditic Design Enables Mating to Cable or Panel Mount Connectors in Either Direction
- Extra-Rugged Metal Shell with Dust Cap
- For Mobile Production Applications
- Expanded Beam Technology is Less Susceptible to Dust and Debris
- Monolithic Insert Design Facilitates Cleaning
- Non-Contacting Interface Allows Thousands of Mating Cycles

Overall Specifications

of Channels: 2 or 4

Connectors: (2) Amphenol® TACBeam™

Cable Type: Tactical Single-Mode 9.2µm or Tactical Multi-Mode 50µm/125µm

Available Lengths: 50', 100', 164', 250', 328', 500', 656' or Custom

Mechanical Performance Specifications

Operating Temperature: -20°C to 80°C

Minimum Bend Radius: 4 cm

Optical Performance Specifications

Fiber Type: OS2, Single-Mode or OM3 Multi-Mode

Cable Loss: Single-Mode <0.5 dB/Km, Multi-Mode 2.5 dB/Km

Connector Loss: ≤1.5 dB

Connector Back Reflection: >55 dB

Amphenol, TFOCA-II and TACBeam are trademarks of Amphenol Corporation.



Single-Mode Fiber Optic: Permanent Installation



Gepco® Brand low-loss, single-mode, fiber optic cable is available in breakout and distribution types, in either UL plenum or riser rated versions. The modal dispersion characteristics of single-mode glass enable transmission of high bit-rate data, thereby making this fiber type ideal, and the standard, for HD video signal transmission. When used in conjunction with Gepco electrical HD cables and hybrid fiber breakout systems, FS Series fiber can be used for the optical interconnect between camera positions.

Features & Benefits

- Low-Loss, Single-Mode Optical Glass Fibers
- Distribution & Breakout Type Constructions
- Aramid Filler
- 1 Through 144 Elements
- PVC or PVDF Jacket
- UL Riser or Plenum Rated

Applications

- Interconnection of Video & Audio Data for Multiple HD Cameras
- For Permanent Installation
- Indoor/Outdoor Use

Fiber Specifications

| Type | Mode Field Diameter | Cladding Diameter | Maximum Attenuation |
|-------------|---------------------|-------------------|----------------------------|
| Single-Mode | 8.3μm | 125μm | ≤ 0.70 dB/Km @ 1310/1550nm |

Mechanical Specifications

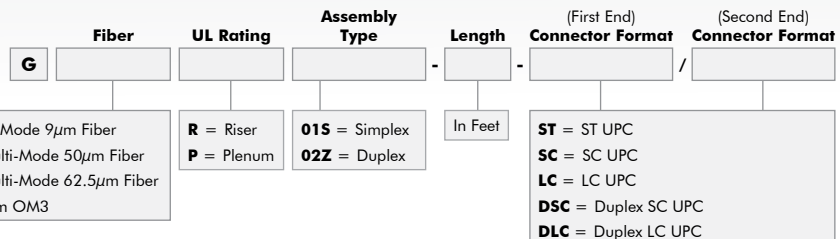
| Part # | Fiber Buffer | Number of Elements | Nominal OD | Outer Jacket | Maximum Tension | | Minimum Bend Radius | | Weight | UL Type |
|--|--|--------------------|-----------------------------------|--------------|------------------------|---------------|-------------------------|---------------|-----------------------|---------|
| | | | | | Installation (Pulling) | Operating | Installation (Pulling) | Operating | | |
| FSD**R | Acrylate Tight Buffer Coating (0.9 mm OD) with Overall Aramid Filler | 2 | 0.180" (4.6 mm) | PVC | 310 lbs | 100 lbs | 2.7" (69 mm) | 1.8" (46 mm) | 14 lbs/Mft (21 kg/km) | OFNR |
| | | 4 | 0.200" (5.1 mm) | PVC | 310 lbs | 100 lbs | 3.0" (76 mm) | 2.0" (51 mm) | 17 lbs/Mft (25 kg/km) | |
| | | 6 | 0.220" (5.6 mm) | PVC | 310 lbs | 100 lbs | 3.3" (84 mm) | 2.2" (56 mm) | 19 lbs/Mft (28 kg/km) | |
| | | 12 | 0.260" (6.6 mm) | PVC | 600 lbs | 135 lbs | 3.9" (99 mm) | 2.6" (66 mm) | 25 lbs/Mft (37 kg/km) | |
| Single-Mode Distribution: Riser Rated | | | | | | | | | | |
| FSD**P | Acrylate Tight Buffer Coating (0.9 mm OD) with Overall Aramid Filler | 2 | 0.160" (4.1 mm) | Plenum PVC | 270 lbs | 90 lbs | 2.4" (61 mm) | 1.6" (41 mm) | 9 lbs/Mft (13 kg/km) | OFNP |
| | | 4 | 0.180" (4.6 mm) | Plenum PVC | 270 lbs | 90 lbs | 2.7" (69 mm) | 1.8" (46 mm) | 11 lbs/Mft (16 kg/km) | |
| | | 6 | 0.200" (5.1 mm) | Plenum PVC | 310 lbs | 100 lbs | 3.0" (76 mm) | 2.0" (51 mm) | 15 lbs/Mft (22 kg/km) | |
| | | 12 | 0.220" (5.6 mm) | Plenum PVC | 400 lbs | 135 lbs | 3.3" (84 mm) | 2.2" (56 mm) | 19 lbs/Mft (28 kg/km) | |
| Single-Mode Distribution: Plenum Rated | | | | | | | | | | |
| FSB**R | Acrylate Tight Buffer Coating (0.9 mm OD) with Aramid Filler & PVC Tube Jacket for Each Fiber | 1 (Simplex) | 0.110" (2.8 mm) | PVC | 110 lbs | 70 lbs | 2.0" (51 mm) | 1.2" (30 mm) | 5 lbs/Mft (7 kg/km) | OFNR |
| | | 2 (Duplex) | 0.110" x 0.230" (2.8 mm x 5.8 mm) | PVC | 220 lbs | 110 lbs | 2.0" (51 mm) | 1.2" (30 mm) | 11 lbs/Mft (16 kg/km) | |
| | | 2 | 0.280" (7.1 mm) | PVC | 270 lbs | 110 lbs | 4.2" (107 mm) | 2.8" (71 mm) | 34 lbs/Mft (51 kg/km) | |
| | | 4 | 0.310" (7.9 mm) | PVC | 450 lbs | 180 lbs | 4.7" (119 mm) | 3.1" (79 mm) | 44 lbs/Mft (66 kg/km) | |
| | | 6 | 0.370" (9.4 mm) | PVC | 670 lbs | 270 lbs | 5.6" (142 mm) | 3.7" (94 mm) | 55 lbs/Mft (82 kg/km) | |
| 12 | 0.490" (12.4 mm) | PVC | 1350 lbs | 560 lbs | 7.4" (188 mm) | 4.9" (124 mm) | 101 lbs/Mft (150 kg/km) | | | |
| Single-Mode Breakout: Riser Rated | | | | | | | | | | |
| FSB**P | Acrylate Tight Buffer Coating (0.9 mm OD) with Aramid Filler & Plenum PVC or PVDF Tube Jacket for Each Fiber | 1 (Simplex) | 0.110" (2.8 mm) | Plenum PVC | 110 lbs | 70 lbs | 2.0" (51 mm) | 1.2" (30 mm) | 6 lbs/Mft (9 kg/km) | OFNP |
| | | 2 (Duplex) | 0.110" x 0.230" (2.8 mm x 5.8 mm) | Plenum PVC | 220 lbs | 110 lbs | 2.0" (51 mm) | 1.2" (30 mm) | 12 lbs/Mft (18 kg/km) | |
| | | 2 | 0.240" (6.1 mm) | PVDF | 360 lbs | 90 lbs | 3.6" (91 mm) | 3.6" (91 mm) | 23 lbs/Mft (34 kg/km) | |
| | | 4 | 0.240" (6.1 mm) | PVDF | 360 lbs | 90 lbs | 3.6" (91 mm) | 3.6" (91 mm) | 23 lbs/Mft (34 kg/km) | |
| | | 6 | 0.280" (7.1 mm) | PVDF | 540 lbs | 130 lbs | 4.2" (107 mm) | 4.2" (107 mm) | 32 lbs/Mft (48 kg/km) | |
| 12 | 0.390" (9.9 mm) | PVDF | 1080 lbs | 270 lbs | 5.9" (150 mm) | 5.9" (150 mm) | 63 lbs/Mft (94 kg/km) | | | |
| Single-Mode Breakout: Plenum Rated | | | | | | | | | | |

Other fiber counts available up to 144 elements. Please consult Gepco for details and color availability. Please see fiber buffer color code chart #4 on page 142.

Permanent Installation Single-Mode & Multi-Mode Fiber ST/SC/LC Simplex & Duplex Assemblies

Features

Machine Polished -55 dB RL (Typical) UPC Quality
100% Tested & Verified
Precision Fiber Connectors



Multi-Mode Fiber Optic: Permanent Installation



The Gepco® Brand indoor/outdoor distribution multi-mode fiber series for audio, video or data networking applications is available in both breakout and distribution type constructions. Distribution types feature individually coated fibers with an overall aramid filler and jacket. Breakout types have individual aramid fillers and tube jackets over each individual fiber for added strength and durability when breaking out the individual fibers. Both types are available in plenum and riser constructions for permanent installation in almost any environment.

Features & Benefits

- Low-Loss, Multi-Mode Optical Glass Fibers
- Distribution & Breakout Type Constructions
- Aramid Filler
- 1 Through 144 Elements
- PVC or PVDF Jacket
- UL Riser or Plenum Rated

Applications

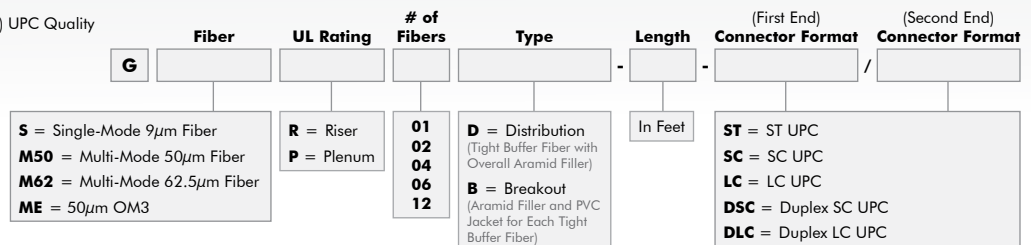
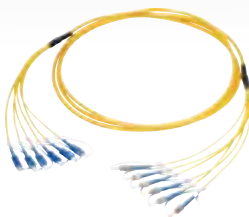
- For Permanent Installation
- Indoor/Outdoor Use

| Fiber Specifications | | | | | | | | | | |
|--|--|--------------------|-----------------------------------|---|------------------------|---------------|-------------------------|---------------|-----------------------|---------|
| Type | Mode | Field Diameter | Cladding Diameter | Maximum Attenuation | | | | | | |
| Multi-Mode | | 62.5µm | 125µm | 3.50 dB/Km @ 850nm, 1.00 dB/Km @ 1550nm | | | | | | |
| Mechanical Specifications | | | | | | | | | | |
| Part # | Fiber Buffer | Number of Elements | Nominal OD | Outer Jacket | Maximum Tension | | Minimum Bend Radius | | Weight | UL Type |
| | | | | | Installation (Pulling) | Operating | Installation (Pulling) | Operating | | |
| FMD**R | Acrylate Tight Buffer Coating (0.9 mm OD) * = Number of Elements with Overall Aramid Filler | 2 | 0.180" (4.6 mm) | PVC | 310 lbs | 100 lbs | 2.7" (69 mm) | 1.8" (46 mm) | 14 lbs/Mft (21 kg/km) | OFNR |
| | | 4 | 0.200" (5.1 mm) | PVC | 310 lbs | 100 lbs | 3.0" (76 mm) | 2.0" (51 mm) | 17 lbs/Mft (25 kg/km) | |
| | | 6 | 0.220" (5.6 mm) | PVC | 310 lbs | 100 lbs | 3.3" (84 mm) | 2.2" (56 mm) | 19 lbs/Mft (28 kg/km) | |
| | | 12 | 0.260" (6.6 mm) | PVC | 600 lbs | 135 lbs | 3.9" (99 mm) | 2.6" (66 mm) | 25 lbs/Mft (37 kg/km) | |
| <i>Multi-Mode Distribution: Riser Rated</i> | | | | | | | | | | |
| FMD**P | Acrylate Tight Buffer Coating (0.9 mm OD) * = Number of Elements with Overall Aramid Filler | 2 | 0.160" (4.1 mm) | Plenum PVC | 270 lbs | 90 lbs | 2.4" (61 mm) | 1.6" (41 mm) | 9 lbs/Mft (13 kg/km) | OFNP |
| | | 4 | 0.180" (4.6 mm) | Plenum PVC | 270 lbs | 90 lbs | 2.7" (69 mm) | 1.8" (46 mm) | 11 lbs/Mft (16 kg/km) | |
| | | 6 | 0.200" (5.1 mm) | Plenum PVC | 310 lbs | 100 lbs | 3.0" (76 mm) | 2.0" (51 mm) | 15 lbs/Mft (22 kg/km) | |
| | | 12 | 0.220" (5.6 mm) | Plenum PVC | 400 lbs | 135 lbs | 3.3" (84 mm) | 2.2" (56 mm) | 19 lbs/Mft (28 kg/km) | |
| <i>Multi-Mode Distribution: Plenum Rated</i> | | | | | | | | | | |
| FMB**R | Acrylate Tight Buffer Coating (0.9 mm OD) with Aramid Filler & PVC Tube Jacket for Each Fiber * = Number of Elements | 1 (Simplex) | 0.110" (2.8 mm) | PVC | 110 lbs | 70 lbs | 2.0" (51 mm) | 1.2" (30 mm) | 5 lbs/Mft (7 kg/km) | OFNR |
| | | 2 (Duplex) | 0.110" x 0.230" (2.8 mm x 5.8 mm) | PVC | 220 lbs | 110 lbs | 2.0" (51 mm) | 1.2" (30 mm) | 11 lbs/Mft (16 kg/km) | |
| | | 2 | 0.280" (7.1 mm) | PVC | 270 lbs | 110 lbs | 4.2" (107 mm) | 2.8" (71 mm) | 34 lbs/Mft (51 kg/km) | |
| | | 4 | 0.310" (7.9 mm) | PVC | 450 lbs | 180 lbs | 4.7" (119 mm) | 3.1" (79 mm) | 44 lbs/Mft (66 kg/km) | |
| | | 6 | 0.370" (9.4 mm) | PVC | 670 lbs | 270 lbs | 5.6" (142 mm) | 3.7" (94 mm) | 55 lbs/Mft (82 kg/km) | |
| 12 | 0.490" (12.4 mm) | PVC | 1350 lbs | 560 lbs | 7.4" (188 mm) | 4.9" (124 mm) | 101 lbs/Mft (150 kg/km) | | | |
| <i>Multi-Mode Breakout: Riser Rated</i> | | | | | | | | | | |
| FMB**P | Acrylate Tight Buffer Coating (0.9 mm OD) with Aramid Filler & Plenum PVC or PVDF Tube Jacket for Each Fiber * = Number of Elements | 1 (Simplex) | 0.110" (2.8 mm) | Plenum PVC | 110 lbs | 70 lbs | 2.0" (51 mm) | 1.2" (30 mm) | 6 lbs/Mft (9 kg/km) | OFNP |
| | | 2 (Duplex) | 0.110" x 0.230" (2.8 mm x 5.8 mm) | Plenum PVC | 220 lbs | 110 lbs | 2.0" (51 mm) | 1.2" (30 mm) | 12 lbs/Mft (18 kg/km) | |
| | | 2 | 0.240" (6.1 mm) | PVDF | 360 lbs | 90 lbs | 3.6" (91 mm) | 3.6" (91 mm) | 23 lbs/Mft (34 kg/km) | |
| | | 4 | 0.240" (6.1 mm) | PVDF | 360 lbs | 90 lbs | 3.6" (91 mm) | 3.6" (91 mm) | 23 lbs/Mft (34 kg/km) | |
| | | 6 | 0.280" (7.1 mm) | PVDF | 540 lbs | 130 lbs | 4.2" (107 mm) | 4.2" (107 mm) | 32 lbs/Mft (48 kg/km) | |
| 12 | 0.390" (9.9 mm) | PVDF | 1080 lbs | 270 lbs | 5.9" (150 mm) | 5.9" (150 mm) | 63 lbs/Mft (94 kg/km) | | | |
| <i>Multi-Mode Breakout: Plenum Rated</i> | | | | | | | | | | |

Other fiber counts available up to 144 elements. Please consult Gepco for details and color availability. Please see fiber buffer color code chart #4 on page 142.

Permanent Installation Single-Mode & Multi-Mode Fiber ST/SC/LC Snake Assemblies

- Features**
 Machine Polished -55 dB RL (Typical) UPC Quality
 100% Tested & Verified
 Precision Fiber Connectors



HSB Fusion Splice Box



Optional Rack Panel and Base

The Gepco® Brand HSB Fusion Splice Box provides a field terminatable solution for the deployment of hybrid fiber cable in a compact chassis. Specifically designed for hybrid camera applications, the HSB features configurable cable ports and a custom fusion splice tray specifically designed for use with 9.2 mm SMPTE hybrid cable, discrete electrical and fiber cables or the HDC3R 3-channel hybrid cable.

Internally, the optical fibers terminate within the HSB's custom fusion splice tray—using the included splice heat shrink and cable management accessories—while the electrical elements terminate with quick-disconnect, 6-position, plastic AMP® connectors. For the external component breakout, the HSB series utilizes metal, twist-and-lock ST and 5-pin connectors for a secure and reliable exterior mating interface.

To permanently install the HSB splice box, an optional base kit can be added to mount the HSB splice box to a wall or floor, or it can be rack mounted with an optional rack panel. For up to eight channels for splicing, two HSBs can be mounted in a single 3RU rack panel.



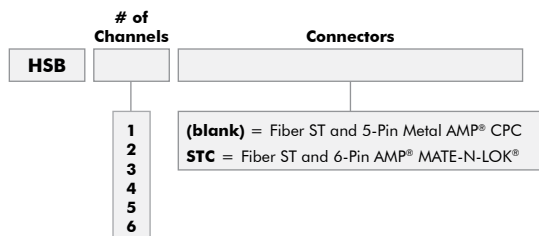
Rugged, Twist-and-Lock, 5-Pin Electrical and ST Fiber Breakout



Configurable Ports for Multiple Cable-Type Compatibility



Custom Fusion Splice Tray with Cable Management



Features & Benefits

- Custom Fusion Splice Tray for Hybrid Cables
- Internal Cable Management for Security and Streamlined Breakout
- Configurable Cable Ports for Strain Relief of Multiple Cable Formats
- Field Installable and Terminatable
- Can Be Spliced with Any Type of Fusion Splicer
- Twist-and-Lock, Metal-Body, External Connectors for Exceptional Durability
- Expandable up to Four Channels

Mechanical Specifications

Dimensions: 11.5" L x 5.5" W x 2.5" H

Optical Connector Specifications:

- ST Female (2 per Channel)
- 55 dB Typical RL, 0.2 dB Max IL Connector End
- Opposite End Blunt for Fusion Splicing

Electrical Breakout:

- 6-Pin AMP® MATE-N-LOK® Connector (Internal)
- 5-Pin AMP® CPC (External)

Rear Panel Cable Management:

- (6) Ports for Electrical/Hybrid Fiber Cable
- (2) Ports for Fiber/3-Channel Hybrid Fiber Cable

Panel Cable Management Ports:

- (1-4) Ports for Electrical/Hybrid Fiber Cable
- (1) Port for Fiber/3-Channel Hybrid Fiber Cable

Included Accessories:

- Mating AMP® MATE-N-LOK® Connector(s)
- Gland Seals for HDP221, HDC920 or HDC920R
- Gland Seals for 2- to 4-Channel Distribution Fiber
- Gland Seals for 6- to 12-Channel Distribution Fiber

Optional Accessories

| Part Number | Description |
|--|--|
| <i>Compatibility Note: Kits for One Strain Relief</i> | |
| GSKIT-BKFBR-S | Gland Seal Kit for Breakout Fiber: 2-, 4- or 6-Channel Riser or Plenum, 8-Channel Plenum |
| GSKIT-BKFBR-L | Gland Seal Kit for Breakout Fiber: 8-Channel Riser, 12-Channel Riser or Plenum |
| GSKIT-HDC3R | Gland Seal Kit for HDC3R 3-Channel Hybrid Cable |
| GSKIT-HDP221P | Gland Seal Kit for HDP221P Plenum Electrical Cable |
| <i>Compatibility Note: For HSB Splice Boxes</i> | |
| HSB-EKIT | Expansion Splice Kit for 1 Hybrid Channel |
| HSB-BASE | Base Feet for Floor or Wall Mounting |
| HSB-RP1 | 2RU Panel for Rack Mounting One HSB Box |
| HSB-RP2 | 3RU Panel for Rack Mounting Two HSB Boxes |
| <i>Compatibility Note: For HMP8 Panels and HSB Boxes</i> | |
| GHFBK-3-PB/STA | Plug Pigtail Breakout Cable with ST and AMP® 5-Pin |
| GHFBK-3-SB/STA | Socket Pigtail Breakout Cable with ST and AMP® 5-Pin |

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SMPT E Field and Studio Boxes



Painted Indoor Box Available

Features & Benefits

- Field Box for SMPT E 304 & Triax Interconnects
- Weather-Proof Stainless Steel or Indoor-Rated Steel Versions
- Hinged Top Panel with Clamps
- Internal SC Breakout or Fusion Splice Tray
- Configurable Cord Grips/Cable Management
- Distributes Hybrid Connector Over Fiber and Copper Distribution, SMPT E 311 or 3-Channel Hybrid Cables
- Available in 1-, 2- or 3-Channel Configurations

Mechanical Specifications

Dimensions:

8" L x 6" W x 4" D Standard 1-, 2- or 3-Channel and 1-Channel Fusion Splice Models: Stainless Steel
 8" L x 6" W x 3.5" D Standard 1-, 2- or 3-Channel and 1-Channel Fusion Splice Models: Indoor Painted Steel
 10" L x 8" W x 4" D Fusion Splice 2- and 3-Channel Models: Stainless Steel or Indoor Painted Steel

0.75" Flanged Base with Mounting Holes

Optical Connector Specifications:

SMPT E 304 LEMO® Stainless Steel Connector (Plug or Socket)
 SMPT E 304 Dust Cap with Weather Seal and Coated Lanyard
 SC-PC Single-Mode Breakout (Internal Breakout Version Only - 2 per Channel)

Fiber Contacts: 2 per Channel

-55 dB Typical RL, 0.4 dB Max IL (SMPT E and SC Contacts)

Triax Connector Specifications

Kings® Tri-Loc® (Male or Female)
 ADC® Pro-Ax™ (Male or Female)

Electrical Breakout Specifications:

6-Pin AMP® MATE-N-LOK® Cap: 3 Pins, 2 Sockets

Cord Grips: 1-, 2- or 3-Channel Models:

Electrical Only/Hybrid Fiber Ports - (1 per Channel):
 Cable OD 0.310" - 0.380": HDP221, HDC920 or HDC920R

Fiber Ports - (1 per Channel):

Cable OD 0.130" - 0.190", 2-Strand Distribution

Cable OD 0.250" - 0.310", 2-Strand Breakout

Note: Secondary Cord Grip Can Be Replaced with Included Weather-Proof Hole Plug

Cord Grips: 3M Models for HDC3R 3-Way Cable:

Single Cord Grip for 3-Way Hybrid Cable
 Cable OD 0.500" - 0.630"

Standard Model

- Internal SC Fiber and AMP® Electrical Breakout
- Field-Installed Cables Can Be Terminated by Polishing, Field Term Gel, or Fusion Splicing SC Connectors
- Includes Splice Holder for SC Spliced Connector

Fusion Splice Model

- Internal Fusion Splice Tray for Full Figure-8 Cable Management
- AMP® Electrical Breakout Panel
- Used for Splicing SMPT E Connector Directly to Field-Installed Cable Without SC Breakout

Included Accessories

Gland Seals for 9.2 mm Hybrid/HDP221 Electrical Cable, 2-Strand Distribution Fiber, and 2-Strand Breakout Fiber (1-, 2- and 3-Channel Models Only)

Gland Seals for HDC3R 3-Way Fiber Cable (3M Models Only)

Mating AMP® Connectors for Electrical Breakout

Optional Accessories

GSKIT-HDP221P - Gland Seal Kit or HDP221P Plenum Electrical Cable: Kit for One Strain Relief

FSC-SC - Factory Polished Connector with 12" Tight Buffer 900µm SM Fiber for Fusion Splicing

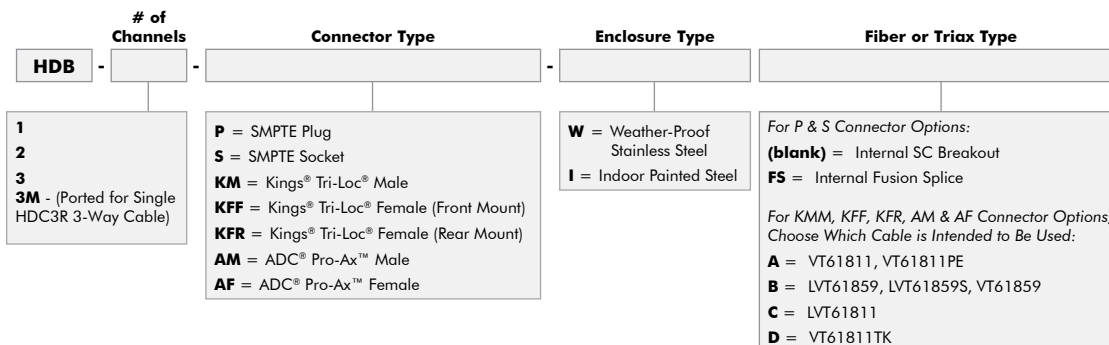
318-191-627 - Field Term SC Connector for 900µm - Quick Cleave with IM Gel



Top Cable Ports



Internal Breakout



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HMD Modular Distribution Rack



The Gepco® Brand HMD Modular Distribution Rack provides a field terminatable solution for the deployment of hybrid fiber connectors in an expandable chassis system. With internal cable management and component SC plus electrical element breakout, the HMD allows for all electrical and fiber termination to occur within the chassis, streamlining and protecting the cable breakout.

Unique to the HMD, the SC breakout at each position allows for the hybrid connectors to be replaced, serviced or expanded via a quick disconnect. The SC termination of the interconnecting cable between HMD racks can be field terminated with epoxy and polish, quick cleave, or fusion splice SC fiber connectors. To facilitate cable management of SC fusion spliced connectors, each breakout position also features an additional splice holder clip within the HMD chassis.

For flexibility in cable options, the HMD features configurable rear cable ports (six plus two) that accommodate a wide range of cable types and combinations. The HMD can be terminated to a variety of combinations of HDC920 9.2 mm hybrid fiber, discrete electrical and fiber cables, or up to two HDC3R 3-channel hybrid cables.

All HMD configurations come with six electrically isolated connector positions for expandability. Each position can be ordered or expanded with SMPTE 304 plug, SMPTE 304 socket, or Neutrik® opticalCON® format connectors, with future connector modules available as they are released.



Expandable, Electrically Isolated Connector Modules



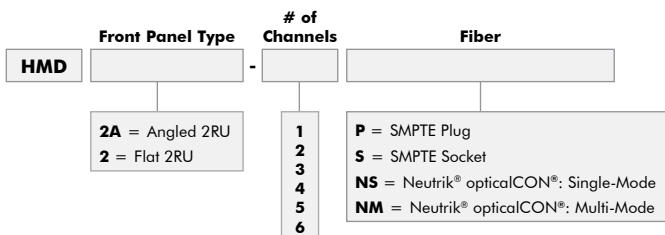
Terminate Mating Cable with SC Connector Options



Rear Cable Ports



Internal SC and Electrical Breakout



Features & Benefits

Internal SC and Electrical Breakout Distribution

Internal Cable Management for Security and Streamlined Breakout

Field Installable

Mating Fiber Can Be Terminated with Polish, Quick Cleave, or Fusion Splice SC Connectors

Can Be Spliced with Any Type of Fusion Splicer (with SC Splice Connector Option)

Electrically Isolated Connector Mounts

Rear Cable Ports for Maximum Cable Strain Relief

Easy to Expand, 6-Channel Frame

Connector Modules for SMPTE 304 and Neutrik® opticalCON® Format Connectors

Mechanical Specifications

Dimensions: 2RU-3.5" H x 19" W x 5.75" D

Optical Connector Specifications:

LEMO® SMPTE 304 or Neutrik® opticalCON®: 1 per Channel (2 Fibers)
 SC-PC Duplex Breakout: 1 per Channel (2 Fibers)
 -55 dB Typical RL, 0.4 dB Max IL Connector End

Electrical Breakout:

6-Pin AMP® MATE-N-LOK® Connector

Rear Panel Cable Management:

(6) Ports for Electrical/Hybrid Fiber Cable
 (2) Ports for Fiber/3-Channel Hybrid Fiber Cable

Included Accessories:

Mating AMP® MATE-N-LOK® Connector(s)
 Gland Seals for HDP221, HDC920 or HDC920R
 Gland Seals for 2- to 4-Channel Distribution Fiber
 Gland Seals for 6- to 12-Channel Distribution Fiber

Optional Accessories

| Part Number | Description |
|---|--|
| <i>Compatibility Note: Kits for One Strain Relief</i> | |
| GSKIT-BKFBR-S | Gland Seal Kit for Breakout Fiber: 2-, 4- or 6-Channel Riser or Plenum, 8-Channel Plenum |
| GSKIT-BKFBR-L | Gland Seal Kit for Breakout Fiber: 8-Channel Riser, 12-Channel Riser or Plenum |
| GSKIT-HDC3R | Gland Seal Kit for HDC3R 3-Channel Hybrid Cable |
| GSKIT-HDP221P | Gland Seal Kit for HDP221P Plenum Electrical Cable |
| <i>Compatibility Note: For HMD and HMS Frames</i> | |
| HMD-EKIT-P | SMPTE Plug Expansion Module Kit |
| HMD-EKIT-S | SMPTE Socket Expansion Module Kit |
| HMD-EKIT-NS | Neutrik® opticalCON® Single-Mode Expansion Module Kit |
| HMD-EKIT-NM | Neutrik® opticalCON® Multi-Mode Expansion Module Kit |

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HMS Modular Fusion Splice Rack



The Gepco® Brand HMS Modular Fusion Splice Rack provides a field terminatable solution for the deployment of hybrid fiber connectors in an expandable chassis system. With an internal cable management and fusion splice tray system, the HMS allows for all electrical and fiber termination to occur within the chassis, streamlining and protecting the cable breakout. Because the fusion splice occurs within the chassis, not in the connector, almost any type of hybrid connector can be terminated with any type of fusion splicer.

For flexibility in cable options, the HMS features configurable rear cable ports (six plus two) that accommodate a wide range of cable types and combinations. The HMS can be terminated to a variety of combinations of HDC920 9.2 mm hybrid fiber, discrete electrical and fiber cables, or up to two HDC3R 3-channel hybrid cables.

All HMS configurations come with six electrically isolated connector positions for expandability. Each position can be ordered or expanded with SMPTE 304 Plug, SMPTE 304 Socket, or Neutrik® opticalCON® format connectors, with future connector modules available as they are released.



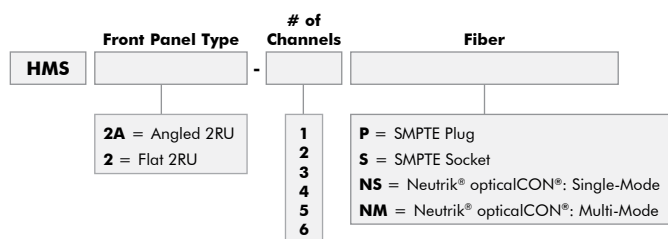
Rear Ports with Integrated Cable Strain Relief and Seal



Internal Fusion Splice Tray with Cable Management



Quick Disconnect Electrical Breakout



Features & Benefits

- Internal Fusion Splice Tray
- Internal Cable Management for Security and Streamlined Breakout
- Field Installable and Terminatable
- Splice with Any Type of Fusion Splicer
- Electrically Isolated Connector Mounts
- Rear Cable Ports for Maximum Cable Strain Relief
- Easy to Expand, 6-Channel Frame
- Connector Modules for SMPTE 304 and Neutrik® opticalCON® Format Connectors

Mechanical Specifications

Dimensions: 2RU-3.5" H x 19" W x 6.5" D

Optical Connector Specifications:

LEMO® SMPTE 304 or Neutrik® opticalCON®: 1 per Channel (2 Fibers)
-55 dB Typical RL, 0.2 dB Max IL Connector End
Opposite End Blunt for Fusion Splicing

Electrical Breakout:

6-Pin AMP® MATE-N-LOK® Connector

Rear Panel Cable Management:

(6) Ports for Electrical/Hybrid Fiber Cable
(2) Ports for Fiber/3-Channel Hybrid Fiber Cable

Included Accessories:

Mating AMP® MATE-N-LOK® Connector(s)
Gland Seals for HDP221, HDC920 or HDC920R
Gland Seals for 2- to 4-Channel Distribution Fiber
Gland Seals for 6- to 12-Channel Distribution Fiber

Optional Accessories

| Part Number | Description |
|---|--|
| <i>Compatibility Note: Kits for One Strain Relief</i> | |
| GSKIT-BKFB-R-S | Gland Seal Kit for Breakout Fiber: 2-, 4- or 6-Channel Riser or Plenum, 8-Channel Plenum |
| GSKIT-BKFB-R-L | Gland Seal Kit for Breakout Fiber: 8-Channel Riser, 12-Channel Riser or Plenum |
| GSKIT-HDC3R | Gland Seal Kit for HDC3R 3-Channel Hybrid Cable |
| GSKIT-HDP221P | Gland Seal Kit for HDP221P Plenum Electrical Cable |
| <i>Compatibility Note: For HMD and HMS Frames</i> | |
| HMD-EKIT-P | SMPTE Plug Expansion Module Kit |
| HMD-EKIT-S | SMPTE Socket Expansion Module Kit |
| HMD-EKIT-NS | Neutrik® opticalCON® Single-Mode Expansion Module Kit |
| HMD-EKIT-NM | Neutrik® opticalCON® Multi-Mode Expansion Module Kit |

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HDR1 High-Density, Hybrid Fiber Distribution Rack



The Gepco® Brand HDR1 High-Density Distribution Rack delivers a hybrid fiber breakout or patching solution in a compact 1RU frame. With the highest density available, the HDR1 can deliver up to six positions in a 1RU space, or up to 12 positions in a 2RU space (with two HDR1 units). Commonly used for machine room patching of multiple camera positions to available CCU control units, the HDR1 provides a streamlined cross-connect or general purpose hybrid breakout system.

Each hybrid connector position of the HDR1 externally breaks out to separate fiber and electrical connectors on the rear of the panel. To provide rugged external connector interfacing, the HDR1 utilizes ST fiber and metal circular, 5-pin electrical connectors. These connector breakout formats can easily be terminated onsite without the need for specialized hybrid connector tooling.

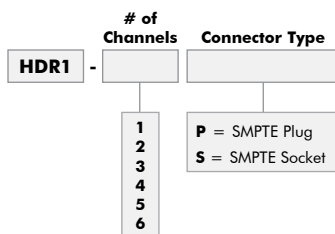
All positions on the HDR1 are completely electrically isolated by nonconductive connector mounts on the front, and the hybrid connector shells are wired to isolated pins on the rear of the chassis. For custom user-labeling and identification, each position features a designation strip. Available with SMPTE 304 plug or SMPTE 304 socket connectors, every configuration comes loaded in a standard frame that can be expanded up to six channels with pre-terminated connector modules.



Electrically Isolated Connector Modules



Rear Panel with Fiber and Electrical Component Breakout



Features & Benefits

- High-Density 1RU Chassis
- External ST Fiber and Metal Circular Electrical Breakout
- Electrically Isolated Connector Mounts
- Designation Strip for Each Position
- Ideal for Machine Room Patching
- Field Installable and Terminatable
- Expandable 6-Channel Frame
- Connector Modules for SMPTE 304 Connectors

Mechanical Specifications

Dimensions: 1RU-1.75" H x 19" W x 3" D

Optical Connector Specifications:

LEMO® SMPTE 304: 1 per Channel (2 Fibers)
ST Breakout: 2 per Channel (2 Fibers)
-55 dB Typical RL, 0.4 dB Max IL

Electrical Breakout:

5-Pin Metal AMP® CPC

Included Accessories:

Mating AMP® 5-Pin CPC Connectors

Optional Accessories

Part Number Description

Compatibility Note: For HDR1 Frames

HDR1-EKIT-P SMPTE Plug Expansion Module Kit

HDR1-EKIT-S SMPTE Socket Expansion Module Kit

NDR1 High-Density, Distribution Rack



The Gepco® Brand NDR1 High-Density Distribution Rack delivers hybrid fiber breakout or patching solutions in compact 1RU frames. With the highest density available, these High-Density Distribution Racks can deliver up to 10 Neutrik® opticalCON® Duo positions in a 1RU space, or up to 20 positions in a 2RU space (with two NDR1 units). Commonly used for machine room patching of multiple camera positions to available CCU control units, the NDR1 provide streamlined cross-connections or general purpose hybrid breakout systems.

Each hybrid connector position of the NDR1 frames externally breaks out to separate fiber and electrical connectors on the rear of the panel. To provide rugged external connector interfacing, the NDR1 frames utilize ST fiber and 6-pin electrical connectors. These connector breakout formats can easily be terminated onsite without the need for specialized hybrid connector tooling.



Isolated Connectors



Rear Panel with Fiber and Electrical Component Breakout

Features & Benefits

- High-Density 1RU Chassis
- External ST Fiber and Electrical Breakout
- Custom Engraving Optional
- Ideal for Machine Room Patching
- Field Installable and Terminatable
- Expandable 10-Channel Frame
- Neutrik® opticalCON® Connectors

Mechanical Specifications

Dimensions: 1RU-1.75" H x 19" W x 3" D

Optical Connector Specifications:

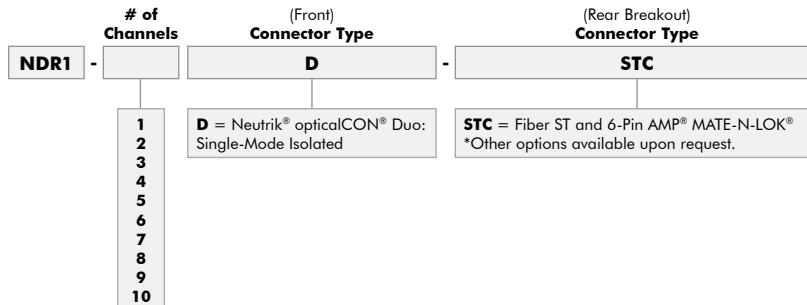
Neutrik® opticalCON®: Single-Mode Isolated
ST Breakout: 2 per Channel (2 Fibers)
-55 dB Typical RL, 0.4 dB Max IL

Electrical Breakout:

6-Pin AMP® MATE-N-LOK®

Included Accessories:

Mating 6-Pin AMP® MATE-N-LOK® Connectors



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HMP8-Bxx SMPTE 304 Breakout Rack



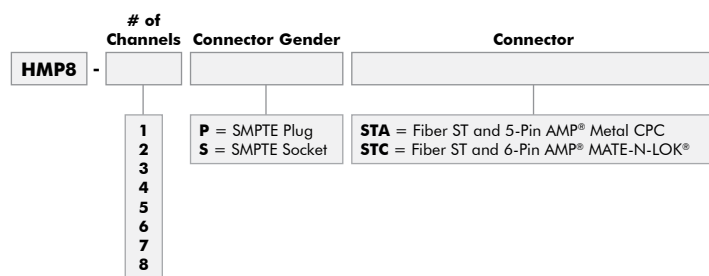
The Gepco® Brand HMP8-Bxx is a completely terminated and loaded version of the HMP8 Modular Panel (opposite page). Positions are loaded with factory terminated SMPTE 304 connectors, which break out to ST fiber and electrical connectors that are mounted in the rear connector panel attachment. Choose from one to eight loaded positions in socket or plug gender configurations. Unused positions are filled with blank modules that can later be removed and expanded with additional SMPTE 304 breakout cable modules.



Top View



Rear View



Features & Benefits

- Loaded and Terminated HMP8 Breakout Rack
- SMPTE 304 Plug or Socket to 5-Pin/ST Breakout
- Angled Front Panel
- Electrically Isolated Connectors
- Available with One to Eight Breakout Positions
- Expandable
- Custom Engraving Optional

Mechanical Specifications

Frame Dimensions: 2RU-3.5" H x 19" W x 3" D

Optical Connector Specifications:

Two Fiber Contacts per Channel
 -55 dB Typical RL
 0.4 dB Max IL (Both Ends in Closed Loop)

Front Panel:

1 LEMO® SMPTE 304 Connector per Channel
 Stainless Steel Connector Body with Stainless Steel Dust Cap

Rear Panel:

Electrical Breakout: 1 AMP® 5-Pin Connector per Channel or 1 AMP® 6-Pin MATE-N-LOK® Connector per Channel
 Optical Breakout: 2 ST Connectors per Channel

Optional Accessories

| Part Number | Description |
|--|--|
| <i>Compatibility Note: For HMP8 Frames</i> | |
| HMP8-EKIT-P | LEMO® SMPTE 304 Plug Expansion Kit |
| HMP8-EKIT-S | LEMO® SMPTE 304 Socket Expansion Kit |
| <i>Compatibility Note: For HMP8 Panels and HSB Boxes</i> | |
| GHFBK-3-PB/STA | Plug Pigtail Breakout Cable with ST and AMP® 5-Pin |
| GHFBK-3-SB/STA | Socket Pigtail Breakout Cable with ST and AMP® 5-Pin |

HMP8 Modular Hybrid Fiber and Triax Panel



The Gepeco® Brand HMP8 modular panel system provides a completely configurable and electrically isolated connector-mounting solution in an angled 2RU rack unit system. With the HMP8 frame, up to eight triax and/or hybrid fiber connectors can be mounted in various combinations to customize the interface panel for each system. Available in six types, the nonconductive plastic HMP8 modules provide electrical isolation between connectors and are available in SMPTE 304, Neutrik® opticalCON®, ADC® ProAx®, Kings® Tri-Loc® and blank versions. In addition, optional rear cable management breakout or lacing bar panels can be attached to the HMP8 frame to provide additional security and strain relief for hybrid fiber pigtail breakout cables.



HMP8-F
8-Position Modular Panel



HMP8-RP
Rear Panel for (8) AMP® 5-Pin and (16) ST Feedthrough Connectors



HMP8-LB
Lacing Bar



HMP8-S SMPTE Universal Mount
HMP8-N Neutrik® opticalCON® Mount
HMP8-AP ADC® ProAx® Plug Mount
HMP8-AJ ADC® ProAx® Jack Mount
HMP8-T Kings® Triax Mount
HMP8-B Blank Module

Ideal for Use With Bulkhead or Breakout Hybrid Fiber Cable Assemblies:



Bulkhead Hybrid (See 64)



In-Line Breakout (See 86)



Internal Breakout (See 86)

Features & Benefits

- Custom Configurable 8-Position Frame
- Angled Front Panel Reduces Cable Bend Radius
- Electrically Isolated Connectors
- All-Metal Frame
- Nonconductive Plastic Modules
- Optional Rear Connector or Lacing Bar Panel Attachments
- ADC® ProAx®, Kings® Tri-Loc®, SMPTE 304, and Neutrik® opticalCON® Mounts
- Custom Engraving Optional

Mechanical Specifications

HMP8-F Dimensions:

2RU-3.5" H x 19" W x 1.31" D

HMP8-RP Dimensions:

2.1" H x 17.1" W x 3" D

HMP8-LB Dimensions:

1.1" H x 17.1" W x 5" D

Neutrik and opticalCON are registered trademarks of Neutrik AG. ADC and ProAx are registered trademarks of ADC Telecommunication, Inc. Kings and Tri-Loc are registered trademarks of Kings Electronics Company, Inc. AMP is a registered trademark of Whitaker Corporation.

Modular Isolation Panel System



Gepco® Brand's modular isolation panel system is designed to provide flexibility and expansion capabilities for the mounting of hybrid fiber and triax connectors in a 19-inch rack format. The all-metal HMPF frame provides seven positions for the connector module mounts and is angled to reduce the bend radius and clearance required for the interfacing cables. Available in four types, the nonconductive plastic HMP modules provide electrical isolation between connectors and are available in SMPTE 304, Kings® Tri-Loc®, Neutrik® opticalCON® and blank versions. In addition, optional rear cable management breakout or lacing bar panels can be attached to the HMPF frame to provide additional security and strain relief for hybrid fiber pigtail breakout cables.



HMPF
7-Position Modular Panel



HMPR
Rear Panel for (7) AMP® 5-Pin and (14) ST Feedthrough Connectors



HMP8-LB
Lacing Bar



HMP-S
SMPTE Universal Mount



HMP-N
Neutrik® opticalCON® Mount



HMP-T
Kings® Triax Mount



HMP-B
Blank Module

Ideal for Use With Bulkhead or Breakout Hybrid Fiber Cable Assemblies:



Bulkhead Hybrid (See 64)



In-Line Breakout (See 86)



Internal Breakout (See 86)

Features & Benefits

- Custom Configurable 7-Position Frame
- Angled Front Reduces Cable Bend Radius
- Electrically Isolates Connectors
- All-Metal Frame
- Nonconductive Plastic Modules
- Optional Rear Connector or Lacing Bar Panel Attachments
- SMPTE 304, Kings® Tri-Loc® and Neutrik® opticalCON® Connector Mounts

Mechanical Specifications

HMPF Dimensions:

2RU-3.5" H x 19" W

HMPR Dimensions:

1.36" H x 17.1" W x 3.7" D

HMP8-LB Dimensions:

1.1" H x 17.1" W x 5" D

Module Dimensions

2" H x 2" W

Hybrid Fiber Blank Panels

Gepco® Brand HBP panels offer a pre-engineered solution for the mounting of SMPTE 304 hybrid fiber connectors in a 19" rack. Available in 1RU, 2RU, and angled 2RU versions, all panels feature Gepco's unique Universal Punch Mount that allows for plug or socket connectors to be mounted in any position. Each position also features a hole for mounting the dust cap lanyard eyelets directly to the panel.

The HBP panels are used in the Direct Cable Termination method as well as in the the Distribution Rack method as a patching option (see pages 88 and 89 for system configuration details). When using HBP panels with pre-terminated cable assemblies, the connector body of the cable assembly can be removed, allowing for the assembly to be passed through the panel hole punch from the rear and reassembled from the front.

Note: These panels do not provide connector ground isolation. Long cable runs (>300') will require the HMP8-F and the ABS isolation plates to ensure proper isolation. Does not accommodate PEW connectors.

Features & Benefits

1RU, 2U or Angled 2RU Versions

Universal Punch Mount Accommodates Plug or Socket Connectors

Works with LEMO® Brand Connectors

Additional Hole for Dust Cap Lanyard Mounting

Can Be Loaded with Pre-terminated Cable Assemblies

Angled 2RU Panel

PART NUMBER: HBPA-*U *Designates Number of Holes (1-6)



Straight 2RU Panel

PART NUMBER: HBP2-*U *Designates Number of Holes (1-6)



Straight 1RU Panel

PART NUMBER: HBP1-*U *Designates Number of Holes (1-6)



Ideal for Use With Bulkhead or Breakout Hybrid Fiber Cable Assemblies:



Bulkhead Hybrid (See 64)



In-Line Breakout (See 86)



Internal Breakout (See 86)

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Hybrid Fiber Breakout: In-Line Cable and Internal Distribution



Gepeco® Brand hybrid fiber breakout cables offer an in-line solution for breaking out SMPTE 304 hybrid fiber connectors to separate optical and electrical connectors. This solution allows for the interfacing of SMPTE hybrid camera devices, such as CCUs, directly to the back of a Gepeco HDR1 or HMP8-Bxx distribution rack.

Gepeco® Brand hybrid fiber internal distribution cables do not use conventional hybrid 311 cables and are intended for internal equipment or panel wiring only. The SMPTE 304 end uses OEM style, panel-mount hybrid connectors and is terminated to insulated copper wire and individual, simplex breakout fibers. The component breakout end has ST, SC, or LC optical connectors, while the copper elements feature AMP® or blunt ends.

As with all Gepeco GHF cables, the breakout series is machine polished to meet or exceed all SMPTE 304/311 standards. Terminated with HDC920R riser rated 9.2 mm cable, breakout cables can be used in most permanent installation environments.

Overall Features & Benefits

- ST/SC/LC Optical Breakout
- AMP® Electrical Breakout
- Machine Polished to -55 dB RL (Typical)
- Custom Lengths Available

In-Line Cable Features & Benefits

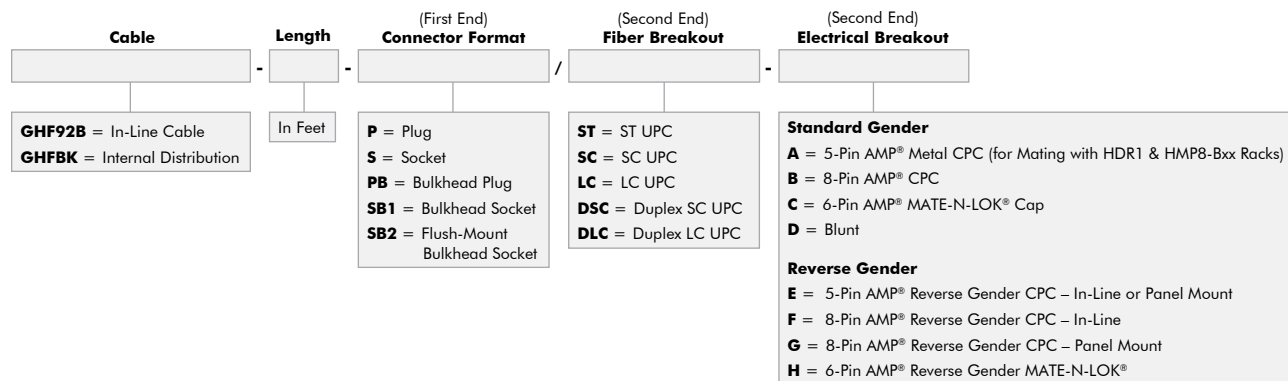
Riser Rated 311 Hybrid Cable for Permanent Installation

For Interfacing SMPTE Hybrid Devices with the Back Panel of Distribution Panels or Other Component Level Devices

Internal Distribution Features & Benefits

Uses Short-Length Fiber and Electrical Elements

For Panel Mounting in Blank Panels or as a Replacement in Hybrid Devices



Hybrid Fiber Connector Options



Fiber Breakout Connector Options

Angled polished versions are available by request.



Electrical Breakout Connector Options



AMP and MATE-N-LOK are registered trademarks of Whitaker Corporation.

Feedthrough Panels & Chassis



Gepco® Brand's series of feedthrough panels provides a convenient, pre-engineered solution for bulkhead interfacing of general-purpose ST, SC or LC optical fiber formats. Utilizing premium-grade, zirconia sleeve connectors, Gepco feedthrough panels deliver precision optical alignment and low insertion loss. Available in two configurations, the flanged panel series provides extra rigidity to minimize panel flexing, while the chassis series provides a complete rear enclosure for cable management.

Features & Benefits

- Precision, Zirconia Sleeve Connectors
- Available with ST, SC, or LC Format Connectors
- Flanged Panel Series for Extra Rigidity
- Chassis Series for Integrated Cable Management
- Black Anodized and Engraved

Specifications

| Part Number | Panel Type | Connector Format | Number of Positions | Dimensions | Additional Features |
|----------------------|------------|-----------------------|---------------------|--------------------------|---------------------|
| FP1-xxST | Flat | ST Feedthrough | 6, 8, 10, or 12 | 1RU: 1.75"H x 19"W | Metal Dust Caps |
| FC1-xxST | Chassis | ST Feedthrough | 6, 8, 10, or 12 | 1RU: 1.75"H x 19"W x 3"D | Metal Dust Caps |
| FP1-xx-SCD-IS | Flat | SC Duplex Feedthrough | 4, 6 or 8 | 1RU: 1.75"H x 19"W | Internal Shutter |
| FC1-xx-SCD-IS | Chassis | SC Duplex Feedthrough | 4, 6 or 8 | 1RU: 1.75"H x 19"W x 3"D | Internal Shutter |
| FP1-xx-LCD-IS | Flat | LC Duplex Feedthrough | 6, 8, 10, or 12 | 1RU: 1.75"H x 19"W | Internal Shutter |
| FC1-xx-LCD-IS | Chassis | LC Duplex Feedthrough | 6, 8, 10, or 12 | 1RU: 1.75"H x 19"W x 3"D | Internal Shutter |

Custom Versions Available: Call Sales for More Information.




Panel Mount Feedthrough Connectors

Panel mount feedthrough connectors provide precision alignment and mating between two cable mount connectors. These connectors do not contain a ceramic ferrule or optical fiber elements. Terminated cables must be mated to both sides of the panel mount feedthrough to complete the interconnect. General purpose, industry standard ST and internal-shuttered SC and LC formats are available.

Features & Benefits

- Panel Mount Configurations
- ST and Internal-Shuttered SC and LC Formats
- Zirconia Sleeves
- Precision Optical Alignment

Specifications

| Connector Format | Part Number | Alignment Sleeve | Manufacturer | Mating |
|--|-------------------|--------------------|--------------|------------------------------------|
|  ST Feedthrough | 216-101-E | Zirconia (Ceramic) | SENKO® | Couples Two Male, Cable Mount STs |
|  SC Feedthrough - Duplex | 242-201-1A | Zirconia (Ceramic) | SENKO® | Couples Four Male, Cable Mount SCs |
|  LC Feedthrough - Duplex (SC Footprint) | 988-3511-A | Zirconia (Ceramic) | SENKO® | Couples Four Male, Cable Mount LCs |

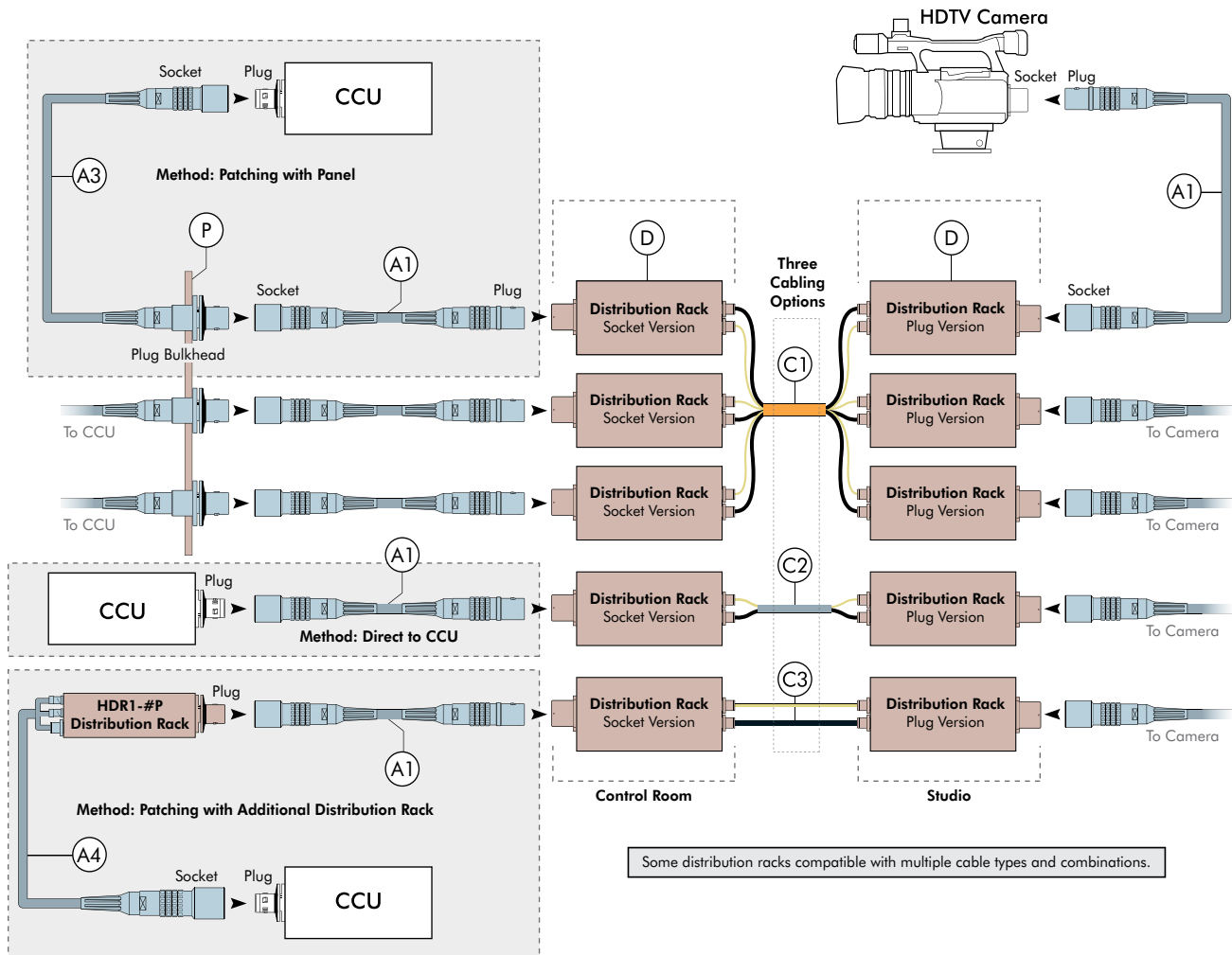
Senko is a registered trademark of SENKO Advanced Components, Inc.

SMPT 304/311 Hybrid Fiber Distribution Rack Workflow

Gepco® Brand distribution racks offer an exceptionally flexible and modular solution to the field deployment and installation of permanent installation SMPTE 304 hybrid camera cables. With the Distribution Rack method, SMPTE 304 connectors are broken out to separate electrical and optical elements on the back of the distribution rack. These separate elements can then be readily terminated to fiber and electrical cable.

Features & Benefits

- Easy to Field-Install and Terminate
- Modular Channels Can Be Reconfigured Onsite
- Replaceable Contact Jumpers for Field Serviceability
- Uses Cost-Effective, General Purpose Fiber and Electrical Cables



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NETWORK, AUTOMATION & LIGHTING CONTROL CABLES

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- Enhanced Category 6 Network
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- Enhanced Category 5e Network
- Heavy-Duty, Tactical Cat 5e Network
- Multimedia Cat 6A for Use with Crestron® Systems
- Multimedia Cat 5e for Use with Crestron® Systems
- Control Cable for Use with Crestron® Systems
- Hybrid Cable for Use with Crestron® Systems
- Control Cable for Use with AMX® Systems
- Keypad & Volume Control
- Power Cable for Use with Lutron® Homeworks® Systems
- Keypad Cable for Use with Lutron® Homeworks® Systems
- Control Cable for Use with Lutron® GRAFIK Eye® Systems
- Hybrid Cable for Use with Lutron® Sivoia® Systems
- Power and Data Cable for Use with Vantage® Systems
- Control Station Cable for Use with LiteTouch® Systems
- Enclosure & Module Cable for Use with LiteTouch® Systems
- DMX Lighting Control

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Vantage is a registered trademark of Legrand Home Systems, Inc.

LiteTouch is a registered trademark of LiteTouch, Inc.

SYSTEM-SPECIFIC DESIGNS THAT DELIVER COMPLETE DATA & CONTROL SOLUTIONS



Low-Loss, Data-Grade Dielectric

Data transmission requires exceptional bandwidth compared to conventional cable types. To achieve the required bandwidth and impedance characteristics, Gepco® Brand data cables utilize only low-loss, data-grade nitrogen/polymer, polyethylene or PVC dielectrics.

Precision Impedance

To ensure proper transmission, most data cables have specific impedance requirements to ensure matching and signal transfer. Each data cable type is designed to meet the specific impedance requirement for its application.

Easy to Terminate

Each cable has time-saving features such as color coded jackets, optimized conductor stranding, drain wires and easy-to-strip compounds.

High-Purity Copper

Cable conductors are made from stranded, tinned copper; 99.99% oxygen-free copper; or precision-drawn solid copper. These conductor types provide maximum conductivity for high-frequency data signal transmission.

Extended Bandwidth for High-Speed Data Applications

Gepco Brand network, automation and lighting cables feature the bandwidth and precision required for high-speed data applications such as Gigabit Ethernet, video over twisted-pair, and specialized system formats.

System-Specific Designs

Gepco Brand network, automation and lighting cables are produced in a variety of specific designs to provide complete solutions for almost every type of control and data system.

Electrical Characteristics & Specifications

Meets or Exceeds Industry Standards

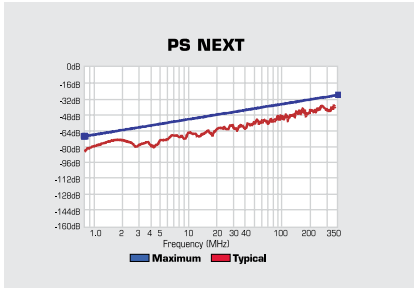
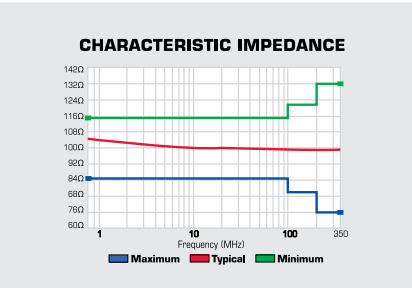
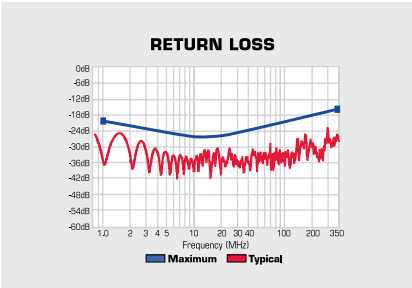
Each cable is designed to meet or exceed all relevant industry or manufacturer standards. This ensures compatibility and consistent performance in networking, touch panel, audio and video systems.

Precision Characteristic Impedance

Gepco Brand data cables feature a precision characteristic impedance. Impedance matching ensures low attenuation and minimal signal reflection which can result in bit-errors or jitter.

Tested & Verified

All reels are 100% tested and verified to ensure consistent and reliable performance in every application. Category 5e and 6 cables are ETL verified to ensure compliance with all ANSI/TIA 568-C.2 performance standards.



NETWORK
Category 6 Network



Gepeco® Brand CT604/STD Category 6 Cables feature extended bandwidths and precision tolerances to meet the latest ANSI/TIA and ISO standards. Designed to deliver reliability in leading-edge networking, data and video applications, every reel is ETL listed and UL verified to ensure consistent performance. The TRU-Mark® Marking System sequentially marks every two feet of cable in descending order. Available in plenum and riser constructions, Gepeco Category 6 cables may be installed in a variety of applications and environments.

Features & Benefits

Designed to Meet ANSI/TIA 568-C.2 Standards at a Value to Fit in Your Network Budget

Tighter Twists Over Category 5e, Reducing Network Errors

Increased Pair Separation with Thin Tape Design Minimizing Crosstalk

TRU-Mark® Print Legend with Sequential Footage

Applications

Digital Video

Broadband and Baseband Analog Video

IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T

155 Mp/s, 622 Mp/s ATM

ANSI X3.263: 100 Mb/s

4/16 Mb/s Token Ring

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Cond. | Insulation | Pair Color Code | Separator | Jacket | Jacket Color Code | Min. Bend Radius | Max. Pulling Force | UL Type | Weight |
|--------------------------------------|------------|------------------|-----------------|---------------|--|-----------|------------|--|------------------|--------------------|---------|-----------------------|
| CT604/STD | 4 | 0.205" (5.21 mm) | 23 AWG Solid BC | Polyolefin | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Divider | PVC | Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple | 1.0" | 32 lbs | CMR | 28 lbs/Mft (42 kg/km) |
| Category 6 Four-Pair 250 MHz | | | | | | | | | | | | |
| CT604/STDP | 4 | 0.200" (5.08 mm) | 23 AWG Solid BC | Fluoropolymer | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Divider | Plenum PVC | Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple | 1.0" | 32 lbs | CMP | 28 lbs/Mft (42 kg/km) |
| Category 6 Four-Pair 250 MHz: Plenum | | | | | | | | | | | | |

Electrical Specifications

| Part # | DCR Max @ 20°C | DCR Unbal. Max | Char. Imped. | Prop. Delay (Skew) Max | Vel. of Prop. (Plenum, Non-Plenum) | Temp. Rating (Installation, Operating) | Standards |
|-------------------------------------|----------------------|----------------|---------------|------------------------|------------------------------------|--|--|
| CT604/STD Series | 8.9 Ω/100 m (328 ft) | 3.0% | 100 Ω (+/-15) | 45 ns/100 m | 68%, 70% | 0°C to +60°C, -20°C to +75°C | Meets ANSI/TIA 568-C.2, Cat 6, ISO/IEC 11801 Ed. 2.0 |
| ANSI/TIA 568-C.2 Performance | | | | | | | |
| Freq. (MHz) | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 100 150 200 250 350 400 500 |
| Insertion Loss (dB/100 m) (max) | 2.0 | 3.8 | 6.0 | 7.6 | 8.5 | 10.7 | 15.4 19.8 24.7 29.0 32.8 39.8 43.0 48.9 |
| PSACR (dB/100 m) (min) | 70.3 | 59.3 | 51.3 | 46.7 | 44.3 | 39.2 | 29.9 22.5 14.9 8.8 3.5 — — — |
| ACR (dB/100 m) (min) | 72.3 | 61.5 | 53.3 | 48.7 | 46.3 | 41.2 | 32.0 24.5 16.9 10.8 5.5 — — — |
| PSNEXT (dB/100 m) (min) | 72.3 | 63.3 | 57.3 | 54.2 | 52.8 | 49.9 | 45.4 42.3 39.7 37.8 36.3 34.1 33.3 31.8 |
| NEXT (dB/100 m) (min) | 74.3 | 65.3 | 59.3 | 56.2 | 54.8 | 51.9 | 47.4 44.3 41.7 39.8 38.3 36.1 35.3 33.8 |
| PSACRF (dB/100 m) (min) | 64.8 | 52.8 | 44.8 | 40.7 | 38.8 | 34.9 | 28.9 24.8 21.3 18.8 16.8 13.9 12.8 10.8 |
| ACRF (dB/100 m) (min) | 67.8 | 55.7 | 47.8 | 43.7 | 41.7 | 37.9 | 31.8 27.8 24.3 21.8 19.8 16.9 15.8 13.8 |
| Return Loss (dB) (min) | 20.0 | 23.0 | 25.0 | 25.0 | 25.0 | 23.6 | 21.5 20.1 18.9 18.0 17.3 16.3 15.9 15.2 |
| TCL (dB/100 m) (min) | 40.0 | 40.0 | 40.0 | 38.0 | 37.0 | 35.1 | 32.0 30.0 28.2 27.0 26.0 — — — |
| ELTCL (dB/100 m) (min) | 35.0 | 23.0 | 15.0 | 10.9 | 9.0 | — | — — — — — — — — |

*PSACR & ACR not specified in ANSI/TIA 568-C.2

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NETWORK

Enhanced Category 6 Network



Gepco® Brand CT604/250 Enhanced Category 6 Cables feature extended bandwidths and precision tolerances to meet or exceed the latest ANSI/TIA and ISO standards. The innovative cross-web design allows for maximum pair separation, increasing key electrical performance parameters. Designed to deliver reliability in leading-edge networking, data and video applications, every reel is ETL listed and UL verified to ensure consistent performance. The TRU-Mark® Marking System sequentially marks every two feet of cable in descending order. Available in plenum and riser constructions, Gepco Enhanced Category 6 cables may be installed in a variety of applications and environments.

Features & Benefits

- Innovative Cross-Web Design
- TRU-Mark® Print Legend with Sequential Footage
- Characterized up to or Beyond ANSI/TIA Standards
- Third Party Verified for Guaranteed Performance
- Rip Cord Under Jacket

Applications

- Digital Video
- Broadband and Baseband Analog Video
- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Conductors | Insulation | Pair Color Code | Separator | Jacket | Jacket Color Code | Min. Bend Radius | Max. Pulling Force | UL Type | Weight |
|--------------------------------------|------------|------------------|-----------------|---------------|--|-----------|------------|--|------------------|--------------------|---------|-----------------------|
| CT604/250 | 4 | 0.235" (5.97 mm) | 23 AWG Solid BC | Polyolefin | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Cross-Web | PVC | Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple | 1.0" | 32 lbs | CMR | 28 lbs/Mft (42 kg/km) |
| Category 6 Four-Pair 250 MHz | | | | | | | | | | | | |
| CT604/250P | 4 | 0.225" (5.72 mm) | 23 AWG Solid BC | Flouropolymer | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Cross-Web | Plenum PVC | Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple | 1.0" | 32 lbs | CMP | 31 lbs/Mft (46 kg/km) |
| Category 6 Four-Pair 250 MHz: Plenum | | | | | | | | | | | | |

Electrical Specifications

| Part # | DCR Max @ 20°C | DCR Unbal. Max | Char. Imped. | Prop. Delay (Skew) Max (Non-Plenum, Plenum) | Vel. of Prop. (Non-Plenum, Plenum) | Temp. Rating (Installation, Operating) | Standards |
|------------------|-----------------------|----------------|---------------|---|------------------------------------|--|--|
| CT604/250 Series | 9.38 Ω/100 m (328 ft) | 4.0% | 100 Ω (+/-15) | 45 ns/100 m | 68%, 70% | 0°C to +60°C, -20°C to +75°C | Meets or Exceeds ANSI/TIA 568-C.2 Cat 6, ISO/IEC 11801 Ed. 2.0 |

| Freq. (MHz) | ANSI/TIA 568-C.2 Performance (Gray Column) | | | | | | | | | | | | Guaranteed Performance (White Column) | | | | | | | | | | | | | |
|---------------------------------|--|------|------|------|------|-------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|------|------|------|------|------|---|------|---|------|
| | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 | 150 | 200 | 250 | 350 | 500 | | | | | | | | | | | | | |
| Insertion Loss (dB/100 m) (max) | 2.0 | 2.0 | 3.8 | 3.8 | 6.0 | 5.9 | 7.6 | 7.5 | 8.5 | 8.4 | 10.7 | 10.6 | 15.4 | 15.3 | 19.8 | 19.7 | 24.7 | 24.7 | 29.0 | 29.0 | 32.8 | 32.6 | — | 39.5 | — | 48.6 |
| PSACR* (dB/100 m) (min) | 70.3 | 75.3 | 59.3 | 64.5 | 51.3 | 56.4 | 46.7 | 51.7 | 44.3 | 49.4 | 39.2 | 44.3 | 29.9 | 35.1 | 22.5 | 27.6 | 14.9 | 20.0 | 8.8 | 13.8 | 3.5 | 8.7 | — | — | — | — |
| ACR* (dB/100 m) (min) | 72.3 | 77.3 | 61.5 | 66.5 | 53.3 | 58.4 | 48.7 | 53.8 | 46.3 | 51.4 | 41.2 | 46.3 | 32.0 | 37.1 | 24.5 | 29.6 | 16.9 | 22.0 | 10.8 | 15.8 | 5.5 | 10.7 | — | 1.7 | — | — |
| PSNEXT (dB/100 m) (min) | 72.3 | 77.3 | 63.3 | 68.3 | 57.3 | 62.3 | 54.2 | 59.3 | 52.8 | 57.8 | 49.9 | 54.9 | 45.4 | 50.4 | 42.3 | 47.3 | 39.7 | 44.7 | 37.8 | 42.8 | 36.3 | 41.3 | — | 39.2 | — | 36.8 |
| NEXT (dB/100 m) (min) | 74.3 | 79.3 | 65.3 | 70.3 | 59.3 | 64.3 | 56.2 | 61.3 | 54.8 | 59.8 | 51.9 | 56.9 | 47.4 | 52.4 | 44.3 | 49.3 | 41.7 | 46.7 | 39.8 | 44.8 | 38.3 | 43.3 | — | 41.2 | — | 38.8 |
| PSACRF (dB/100 m) (min) | 64.8 | 69.8 | 52.8 | 57.7 | 44.8 | 49.8 | 40.7 | 45.7 | 38.8 | 43.7 | 34.9 | 39.9 | 28.9 | 33.8 | 24.8 | 29.8 | 21.3 | 26.3 | 18.8 | 23.8 | 16.8 | 21.8 | — | 18.9 | — | 15.8 |
| ACRF (dB/100 m) (min) | 67.8 | 72.8 | 55.7 | 60.7 | 47.8 | 52.8 | 43.7 | 48.7 | 41.7 | 46.7 | 37.9 | 42.9 | 31.8 | 36.8 | 27.8 | 32.8 | 24.3 | 29.3 | 21.8 | 26.8 | 19.8 | 24.8 | — | 21.9 | — | 18.8 |
| Return Loss (dB) (min) | 20.0 | 20.0 | 23.0 | 23.6 | 25.0 | 26.0 | 25.0 | 26.0 | 25.0 | 26.0 | 23.6 | 25.0 | 21.5 | 23.5 | 20.1 | 22.5 | 18.9 | 21.6 | 18.0 | 21.0 | 17.3 | 20.5 | — | 19.8 | — | 19.0 |
| TCL (dB/100 m) (min) | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 38.0 | 38.0 | 37.0 | 37.0 | 35.1 | 35.1 | 32.0 | 32.0 | 30.0 | 30.0 | 28.2 | 28.2 | 27.0 | 27.0 | 26.0 | 26.0 | — | — | — | — |
| ELTCTL (dB/100 m) (min) | 35.0 | 35.0 | 23.0 | 23.0 | 15.0 | 15.0 | 10.9 | 10.9 | 9.0 | 9.0 | 5.1 | 5.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | — | — | — | — |

*PSACR & ACR not specified in ANSI/TIA 568-C.2

NETWORK

Premium Category 6 Network



Gepeco® Brand CT604/500 Premium Category 6 Cables feature extended bandwidths and precision tolerances to meet or exceed the latest ANSI/TIA and ISO standards. Designed to deliver reliability in leading-edge networking, data and video applications, every reel is ETL listed and UL verified to ensure consistent performance. The improved separator construction allows for more pair separation, while the TRU-Mark® Marking System sequentially marks every two feet of cable in descending order. Available in plenum and riser constructions, Gepeco Premium Category 6 cables may be installed in a variety of applications and environments.

Features & Benefits

Engineered with Precision Balance to Offer Ultimate Headroom

High-End Optimized Performance to Support the Most Bandwidth-Intense Applications

TRU-Mark® Print Legend with Sequential Footage Characterized up to or Beyond ANSI/TIA Standards

Third Party Verified for Guaranteed Performance

Rip Cord Under Jacket

Applications

Digital Video

Broadband and Baseband Analog Video

IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T

155 Mp/s, 622 Mp/s ATM

ANSI X3.263: 100 Mb/s

4/16 Mb/s Token Ring

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Cond. | Insulation | Pair Color Code | Separator | Jacket | Jacket Color Code | Min. Bend Radius | Max. Pulling Force | UL Type | Weight |
|--|------------|------------------|-----------------|---------------|--|-----------|------------|--|------------------|--------------------|---------|-----------------------|
| CT604/500 | 4 | 0.260" (6.60 mm) | 23 AWG Solid BC | Polyolefin | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Cross-Web | PVC | Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple | 1.0" | 50 lbs | CMR | 30 lbs/Mft (45 kg/km) |
| Premium Category 6 Four-Pair 500 MHz | | | | | | | | | | | | |
| CT604/500P | 4 | 0.250" (6.35 mm) | 23 AWG Solid BC | Flouropolymer | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Cross-Web | Plenum PVC | Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple | 1.0" | 50 lbs | CMP | 32 lbs/Mft (48 kg/km) |
| Premium Category 6 Four-Pair 500 MHz: Plenum | | | | | | | | | | | | |

Electrical Specifications

| Part # | DCR Max @ 20°C | DCR Unbal. Max | Char. Imped. | Prop. Delay (Skew) Max | Vel. of Prop. (Non-Plenum, Plenum) | Temp. Rating (Installation, Operating) | Standards |
|------------------|----------------------|----------------|---------------|------------------------|------------------------------------|--|--|
| CT604/500 Series | 8.9 Ω/100 m (328 ft) | 3.0% | 100 Ω (+/-15) | 45 ns/100 m | 70%, 72% | 0°C to +60°C, -20°C to +75°C | Meets or Exceeds ANSI/TIA 568-C.2 Cat 6, ISO/IEC 11801 Ed. 2.0 |

| Freq. (MHz) | ANSI/TIA 568-C.2 Performance (Gray Column) | | | | | | | | | | | Guaranteed Performance (White Column) | | | | | | | | | | | | |
|---------------------------------|--|------|------|------|------|-------|------|------|------|------|------|---------------------------------------|------|------|------|------|------|-------|------|------|-----|------|-----|------|
| | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 | 200 | 250 | 350 | 500 | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 | 200 | 250 | 350 | 500 |
| Insertion Loss (dB/100 m) (max) | 2.0 | 1.9 | 3.8 | 3.5 | 6.0 | 5.5 | 7.6 | 7.0 | 8.5 | 7.8 | 10.7 | 9.9 | 15.4 | 14.3 | 19.8 | 18.5 | 29.0 | 27.2 | 32.8 | 30.9 | — | 37.6 | — | 46.5 |
| PSACR* (dB/100 m) (min) | 70.3 | 77.4 | 59.3 | 66.8 | 51.3 | 58.8 | 46.7 | 54.2 | 44.3 | 51.9 | 39.2 | 47.0 | 29.9 | 38.0 | 22.5 | 30.8 | 8.8 | 17.5 | 3.5 | 12.4 | — | 3.5 | — | — |
| ACR* (dB/100 m) (min) | 72.3 | 79.4 | 61.5 | 68.8 | 53.3 | 60.8 | 48.7 | 56.2 | 46.3 | 53.9 | 41.2 | 49.0 | 32.0 | 40.0 | 24.5 | 32.8 | 10.8 | 19.5 | 5.5 | 14.4 | — | 5.5 | — | — |
| PSNEXT (dB/100 m) (min) | 72.3 | 79.3 | 63.3 | 70.3 | 57.3 | 64.3 | 54.2 | 61.2 | 52.8 | 59.8 | 49.9 | 56.9 | 45.4 | 52.4 | 42.3 | 49.3 | 37.8 | 44.8 | 36.3 | 43.3 | — | 41.1 | — | 38.8 |
| NEXT (dB/100 m) (min) | 74.3 | 81.3 | 65.3 | 72.3 | 59.3 | 66.3 | 56.2 | 63.2 | 54.8 | 61.8 | 51.9 | 58.9 | 47.4 | 54.4 | 44.3 | 51.3 | 39.8 | 46.8 | 38.3 | 45.3 | — | 43.1 | — | 40.8 |
| PSACRF (dB/100 m) (min) | 64.8 | 70.8 | 52.8 | 58.8 | 44.8 | 50.8 | 40.7 | 46.7 | 38.8 | 44.8 | 34.9 | 40.9 | 28.9 | 34.9 | 24.8 | 30.8 | 18.8 | 24.8 | 16.8 | 22.8 | — | 19.9 | — | 16.8 |
| ACRF (dB/100 m) (min) | 67.8 | 73.8 | 55.7 | 61.8 | 47.8 | 53.8 | 43.7 | 49.7 | 41.7 | 47.8 | 37.9 | 43.9 | 31.8 | 37.9 | 27.8 | 33.8 | 21.8 | 27.8 | 19.8 | 25.8 | — | 22.9 | — | 19.8 |
| Return Loss (dB) (min) | 20.0 | 20.0 | 23.0 | 23.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 23.6 | 25.0 | 21.5 | 23.5 | 20.1 | 22.1 | 18.0 | 20.0 | 17.3 | 19.3 | — | 18.3 | — | 17.2 |
| TCL (dB/100 m) (min) | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 38.0 | 38.0 | 37.0 | 37.0 | 35.1 | 35.1 | 32.0 | 32.0 | 30.0 | 30.0 | 27.0 | 27.0 | 26.0 | 26.0 | — | — | — | — |
| ELCTL (dB/100 m) (min) | 35.0 | 35.0 | 23.0 | 23.0 | 15.0 | 15.0 | 10.9 | 10.9 | 9.0 | 9.0 | 5.1 | 5.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | — | — | — | — |

*PSACR & ACR not specified in ANSI/TIA 568-C.2

NETWORK

Category 5e Network



Gepco® Brand CT504/STD Category 5e Cables carry data, telephony and video signals on bandwidth up to 100 MHz. These cables have been engineered with both value and performance in mind. The category 5e design maintains a stable and consistent signal while performing out to one gigabit. Our standard compliant designs meet all of the required standards. Available in both plenum and non-plenum versions, CT504/STD features the TRU-Mark® Marking System, which sequentially marks every two feet of cable in descending order.

Features & Benefits

- Meets ANSI/TIA Standards for Category 5e
- TRU-Mark® Print Legend with Sequential Footage
- Third Party Verified for Guaranteed Performance

Applications

- Broadband and Baseband Analog Video
- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 52/155 Mp/s ATM
- ANSI X3.263: 100 Mb/s

| Mechanical Specifications | | | | | | | | | | | | | | |
|---------------------------------|----------------------|------------------|-----------------|--|--|------------------------------------|---|---------------------|-----------------------|---------|-----------------------|---|------|------|
| Part # | # of Pairs | Nominal OD | Conductors | Insulation | Pair Color Code | Jacket | Jacket Color Code | Minimum Bend Radius | Maximum Pulling Force | UL Type | Weight | | | |
| CT504/STD | 4 | 0.200" (5.08 mm) | 24 AWG Solid BC | Polyolefin | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | PVC | Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple | 1.0" | 25 lbs | CMR | 19 lbs/Mft (28 kg/km) | | | |
| Category 5e Four-Pair | | | | | | | | | | | | | | |
| CT504/STDP | 4 | 0.180" (4.57 mm) | 24 AWG Solid BC | Fluoropolymer/ Dual-Layer Polyolefin | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Plenum PVC | Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple | 1.0" | 25 lbs | CMP | 21 lbs/Mft (31 kg/km) | | | |
| Category 5e Four-Pair: Plenum | | | | | | | | | | | | | | |
| Electrical Specifications | | | | | | | | | | | | | | |
| Part # | DCR Max @ 20°C | DCR Unbal. Max | Char. Imped. | Mutual Capacitance | Prop. Delay (Skew) Max | Vel. of Prop. (Plenum, Non-Plenum) | Temp. Rating (Installation, Operating) | | | | | Standards | | |
| CT504/STD Series | 8.9 Ω/100 m (328 ft) | 3.0% | 100 Ω (+/-15) | 17.0 pF/ft | 45 ns/100 m | 70%, 72% | 0°C to +60°C, -20°C to +75°C | | | | | Meets or Exceeds ANSI/TIA 568-C.2 Cat 5e, ISO/IEC 11801 Ed. 2.0 | | |
| ANSI/TIA 568-C.2 Performance | | | | | | | | | | | | | | |
| Freq. (MHz) | | | | | | | | | | | | | | |
| | 1 | 4 | 10 | 16 | 20 | 25 | 31.25 | 62.5 | 100 | 155 | 200 | 250 | 300 | 350 |
| Insertion Loss (dB/100 m) (max) | 2.0 | 4.1 | 6.5 | 8.2 | 9.3 | 10.4 | 11.7 | 17.0 | 22.0 | 28.1 | 32.4 | 36.9 | 41.0 | 44.9 |
| PSACR* (dB/100 m) (min) | 60.3 | 49.2 | 40.8 | 36.0 | 33.5 | 30.9 | 28.2 | 18.4 | 10.3 | 1.4 | — | — | — | — |
| ACR* (dB/100 m) (min) | 63.3 | 52.2 | 43.8 | 39.0 | 36.5 | 33.9 | 31.2 | 21.4 | 13.3 | 4.4 | — | — | — | — |
| PSNEXT (dB/100 m) (min) | 62.3 | 53.3 | 47.3 | 44.2 | 42.8 | 41.3 | 39.9 | 35.4 | 32.3 | 29.4 | 27.8 | 26.3 | 25.1 | 24.1 |
| NEXT (dB/100 m) (min) | 65.3 | 56.3 | 50.3 | 47.2 | 45.8 | 44.3 | 42.9 | 38.4 | 35.3 | 32.4 | 30.8 | 29.3 | 28.1 | 27.1 |
| PSACRF (dB/100 m) (min) | 60.8 | 48.8 | 40.8 | 36.7 | 34.8 | 32.8 | 30.9 | 24.9 | 20.8 | 17.0 | 14.8 | 12.8 | 11.3 | 9.9 |
| ACRF (dB/100 m) (min) | 63.8 | 51.8 | 43.8 | 39.7 | 37.8 | 35.8 | 33.9 | 27.9 | 23.8 | 20.0 | 17.8 | 15.8 | 14.3 | 12.9 |
| Return Loss (dB) (min) | 20.0 | 23.0 | 25.0 | 25.0 | 25.0 | 24.3 | 23.6 | 21.5 | 20.1 | — | — | — | — | — |

Note: Results beyond 200 MHz for reference only.
*PSACR & ACR not specified in ANSI/TIA 568-C.2

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NETWORK
Enhanced Category 5e Network



Gepco® Brand CT504/350 Enhanced Category 5e Cables feature extended bandwidths and precision tolerances to meet or exceed the latest ANSI/TIA and ISO standards. Designed to deliver reliability in leading-edge networking, data and video applications, the CT504/350 series offers low insertion loss, crosstalk and return loss. Every reel is ETL listed and UL verified to ensure consistent performance, while the TRU-Mark® Marking System sequentially marks every two feet of cable in descending order. Available in plenum and riser constructions, Gepco Enhanced Category 5e cables may be installed in a variety of applications and environments.

Features & Benefits

- For Applications that Require Optimal Cat 5e Performance with Flexibility for the Future
- Performance Guaranteed to 350 MHz
- TRU-Mark® Print Legend with Sequential Footage
- Characterized up to or Beyond ANSI/TIA Standards
- Third Party Verified for Guaranteed Performance
- Rip Cord Under Jacket

Applications

- Broadband and Baseband Analog Video
- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Conductors | Insulation | Pair Color Code | Jacket | Jacket Color Code | Minimum Bend Radius | Maximum Pulling Force | UL Type | Weight |
|---|------------|------------------|-----------------|---------------|--|------------|--|---------------------|-----------------------|---------|-----------------------|
| CT504/350 | 4 | 0.200" (5.08 mm) | 24 AWG Solid BC | Polyolefin | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | PVC | Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple | 1.0" | 25 lbs | CMR | 21 lbs/Mft (31 kg/km) |
| <i>Enhanced Category 5e Four-Pair 350 MHz</i> | | | | | | | | | | | |
| CT504/350P | 4 | 0.180" (4.57 mm) | 24 AWG Solid BC | Fluoropolymer | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Plenum PVC | Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple | 1.0" | 25 lbs | CMP | 19 lbs/Mft (28 kg/km) |
| <i>Enhanced Category 5e Four-Pair 350 MHz: Plenum</i> | | | | | | | | | | | |

Electrical Specifications

| Part # | DCR Max @ 20°C | DCR Unbal. Max | Char. Imped. | Prop. Delay (Skew) Max | Vel. of Prop. (Non-Plenum, Plenum) | Temp. Rating (Installation, Operating) | Standards | | | | | | | | | | |
|------------------|----------------------|---------------------------------|---------------|------------------------|------------------------------------|--|---|------|------|-------|------|------|------|------|------|------|------|
| | | 3.0% | 100 Ω (+/-15) | 45 ns/100 m | 70%, 72% | 0°C to +60°C, -20°C to +75°C | Meets or Exceeds ANSI/TIA 568-C.2 Cat 5e, ISO/IEC 11801 Ed. 2.0 | | | | | | | | | | |
| CT504/350 Series | 8.9 Ω/100 m (328 ft) | Freq. (MHz) | | 1 | 4 | 10 | 16 | 20 | 25 | 31.25 | 62.5 | 100 | 155 | 200 | 250 | 300 | 350 |
| | | Insertion Loss (dB/100 m) (max) | | 2.0 | 4.0 | 6.4 | 8.1 | 9.2 | 10.3 | 11.6 | 16.8 | 21.7 | 27.7 | 32.0 | 36.4 | 40.5 | 44.3 |
| | | PSACR (dB/100 m) (min) | | 63.3 | 52.3 | 43.9 | 39.1 | 36.6 | 34.0 | 31.3 | 21.6 | 13.6 | 4.7 | — | — | — | — |
| | | ACR (dB/100 m) (min) | | 64.3 | 53.3 | 44.9 | 40.1 | 37.6 | 35.0 | 32.3 | 22.6 | 14.6 | 5.7 | — | — | — | — |
| | | PSNEXT (dB/100 m) (min) | | 65.3 | 56.3 | 50.3 | 47.2 | 45.8 | 44.3 | 42.9 | 38.4 | 35.3 | 32.4 | 30.8 | 29.3 | 28.1 | 27.1 |
| | | NEXE (dB/100 m) (min) | | 66.3 | 57.3 | 51.3 | 48.2 | 46.8 | 45.3 | 43.9 | 39.4 | 36.3 | 33.4 | 31.8 | 30.3 | 29.1 | 28.1 |
| | | PSACRF (dB/100 m) (min) | | 61.0 | 49.0 | 41.0 | 36.9 | 35.0 | 33.0 | 31.1 | 25.1 | 21.0 | 17.2 | 15.0 | 13.0 | 11.5 | 10.1 |
| | | ACRF (dB/100 m) (min) | | 64.0 | 52.0 | 44.0 | 39.9 | 38.0 | 36.0 | 34.1 | 28.1 | 24.0 | 20.2 | 18.0 | 16.0 | 14.5 | 13.1 |
| | | Return Loss (dB) (min) | | 20.0 | 23.0 | 25.0 | 25.0 | 25.0 | 24.3 | 23.6 | 21.5 | 20.1 | — | — | — | — | — |

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NETWORK

Heavy-Duty Tactical Category 5e



The Gepco® Brand of heavy-duty tactical Category 5e cables are ideal for portable or remote patching of Ethernet networks or digital audio/video formats that utilize Cat 5e type interconnects. The CT504HD series features a unique double-jacket construction for exceptional durability. The inner jacket maintains the proper physical spacing between pairs to achieve ISO/IEC or ANSI/TIA Cat 5e specifications, while the durable TPE outer jacket protects the cable from damage or abuse. Gepco's heavy-duty Cat 5e cables are available in three types: the original CT504HD with stranded conductors for flexibility, the CT504HDX with solid conductors for low loss, and a multi-channel snake (2-channel CTS2504HDX or 4-channel CTS4504HDX) for applications that require multiple or redundant channels of Cat 5e. The CT504HD series can be terminated with either standard Cat 5e RJ45 connectors or the ruggedized Neutrik® etherCON® connectors.

Features & Benefits

- Unique Inner Belt Maintains Electrical Characteristics in Portable Applications
- Extra-Flexible & Low-Loss Single-Channel Versions
- 2- & 4-Channel Extra-Flexible Snake Versions
- Meets or Exceeds ANSI/TIA and/or ISO/IEC Standards for Cat 5e Cable
- Terminates with Neutrik® etherCON® Connectors or RJ45 Connectors with Boots
- 100 MHz Bandwidth

Applications

- Ethernet Network Patching
- For Portable Use or Remote Environments

Mechanical Specifications (Series)

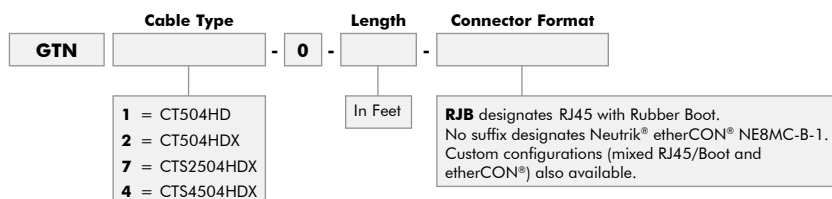
| Insulation | Pair Color Code | Cat 5e Inner Jacket (Type, OD) | Cat 5e Outer Jacket |
|------------|--|--------------------------------|---------------------|
| PE | White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown | Clear TPE, 0.190" (4.93 mm) | Black TPE |

Cable Mechanical Specifications (Individual)

| Part # | # of Pairs | Nominal OD | Conductors | Master Jacket | UL Type | Weight |
|---|-------------------------------|------------------|----------------------------|---------------|-----------------|-------------------------|
| CT504HD | 4 | 0.260" (6.60 mm) | 24 AWG (41x40) Stranded TC | N/A | AWM Style 21144 | 26 lbs/Mft (39 kg/km) |
| <i>Heavy-Duty Tactical Cat 5e Cable: Extra-Flexible</i> | | | | | | |
| CT504HDX | 4 | 0.245" (6.22 mm) | 24 AWG Solid BC | N/A | AWM Style 21144 | 26 lbs/Mft (39 kg/km) |
| <i>Heavy-Duty Tactical Cat 5e Cable: Low-Loss</i> | | | | | | |
| CTS2504HDX | 2 x 4 (2 Channels of 4 Pairs) | 0.599" (15.2 mm) | 24 AWG Solid BC | Black, TPE | — | 115 lbs/Mft (171 kg/km) |
| <i>2-Channel Heavy-Duty Tactical Cat 5e Snake</i> | | | | | | |
| CTS4504HDX | 4 x 4 (4 Channels of 4 Pairs) | 0.650" (16.5 mm) | 24 AWG Solid BC | Black, TPE | — | 200 lbs/Mft (298 kg/km) |
| <i>4-Channel Heavy-Duty Tactical Cat 5e Snake</i> | | | | | | |

Cable Electrical Specifications

| Part # | DCR Max | DCR Unbal. Max | Mutual Capac. Max | Char. Imped. | Prop. Delay (Skew) Max | Vel. of Prop. | Standards | | | | | | |
|--------------------------------------|---------------------------|----------------|-------------------|--------------|------------------------|---------------|---|-----------|-----------|-----------|--------------|-------------|------------|
| CT504HD | 28.6 Ω/Mft | 5% | 17 pF/ft | 100 Ω | 45 ns/100 m | 69% | ISO/IEC 11801 Cat 5e Patch Cable | | | | | | |
| | Freq. (MHz) | | 0.772 | 1 | 4 | 8 | 10 | 16 | 20 | 25 | 31.25 | 62.5 | 100 |
| | Insertion Loss (dB/100 m) | 2.7 | 3.0 | 6.2 | 8.7 | 9.8 | 12.3 | 14.0 | 15.6 | 17.6 | 25.5 | 33.0 | |
| | PSNEXT (dB) | 64.0 | 62.3 | 53.3 | 48.8 | 47.3 | 44.3 | 42.8 | 41.3 | 39.9 | 35.4 | 32.3 | |
| | PSACR (dB/100 m) | 61.3 | 59.3 | 47.2 | 40.1 | 37.6 | 32.0 | 28.9 | 25.7 | 22.4 | 9.9 | -0.7 | |
| | PSELFEXT (dB/100 m) | 63.0 | 60.8 | 48.7 | 42.7 | 40.8 | 36.7 | 34.7 | 32.8 | 30.9 | 24.8 | 20.8 | |
| | RL (dB) | — | 20.0 | 23.0 | 24.5 | 25.0 | 25.0 | 25.0 | 24.2 | 23.3 | 20.7 | 19.0 | |
| CT504HDX CTS2504HDX CTS4504HDX | 28.6 Ω/Mft | 5% | 17 pF/ft | 100 Ω | 45 ns/100 m | 69% | Meets or Exceeds ANSI/TIA 568-C.2 Cat 5e, ISO/IEC 11801 | | | | | | |
| | Freq. (MHz) | | 0.772 | 1 | 4 | 8 | 10 | 16 | 20 | 25 | 31.25 | 62.5 | 100 |
| | Insertion Loss (dB/100 m) | 1.8 | 2.0 | 4.1 | 5.8 | 6.5 | 8.2 | 9.3 | 10.4 | 11.7 | 17.0 | 22.0 | |
| | PSNEXT (dB) | 64.0 | 62.3 | 53.3 | 48.8 | 47.3 | 44.3 | 42.8 | 41.3 | 39.9 | 35.4 | 32.3 | |
| | PSACR (dB/100 m) | 62.2 | 60.3 | 49.2 | 43.0 | 40.8 | 36.1 | 33.5 | 30.9 | 28.2 | 18.4 | 10.3 | |
| | PSELFEXT (dB/100 m) | 63.0 | 60.8 | 48.7 | 42.7 | 40.8 | 36.7 | 34.7 | 32.8 | 30.9 | 24.8 | 20.8 | |
| | RL (dB) | — | 20.0 | 23.0 | 24.5 | 25.0 | 25.0 | 25.0 | 24.3 | 23.6 | 21.5 | 20.1 | |



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NETWORK

Multimedia Cat 6A Shielded Cable for Use with Crestron® Systems



The Gepco® Brand CT104/SDM Multimedia Cat 6A Cable for use with Crestron® Systems is a shielded or foiled-twisted pair (F/UTP) cable for 10-Gigabit Ethernet applications, requiring grounding and providing industry-leading protection from external cable noise sources, also known as alien crosstalk (PSANEXT and PSAACRF). This series features extended bandwidth and precision tolerances to meet or exceed the latest ANSI/TIA and ISO standards. Designed to deliver reliability in leading-edge networking, data and video applications, every reel is UL verified and UL safety listed to ensure consistent performance, while the TRU-Mark® Marking System sequentially marks every two feet of cable in descending order. CT104/SDM Multimedia Cable is available in plenum and riser constructions.

Features & Benefits

- Supports 10-Gigabit Ethernet Applications
- Provides Industry-Leading Protection from External Cable Noise Sources
- Internal Separator for Optimized Internal Pair Geometry Yielding Superior Electrical Performance While Maintaining Flexibility
- Unique Cross-Web Stabilizes Each Pair to Create a Smaller, Round Cable Profile
- TRU-Mark® Print Legend with Sequential Footage

Applications

- IEEE 802.3 10G BASE-T, 100 BASE-T
- 100 BASE-TX, 10 BASE-T, 1000 BASE-TX
- 155 Mb/s ATM
- IEEE 802.3af for PoE
- IEEE 802.3at for PoE Plus
- ANSI X3.263: 100Mb/s

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Cond. | Insulation | Pair Color Code | Separator/ Core Tape | Shield | Drain Wire | Jacket | Min. Bend Radius | Max Pulling Force | UL Type | Weight |
|---|------------|------------------|-----------------|---------------|--|--------------------------------|---|---------------------|--------------------------------|------------------|-------------------|---------|-----------------------|
| CT104/SDM | 4 | 0.310" (7.87 mm) | 23 AWG Solid BC | Polyolefin | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Cross-Web/ Polypropylene | Polyester-Backed Aluminum Foil (Aluminum Side In) | 24 AWG (7x32) TC | PVC, Black, White, Blue | 1.25" | 40 lbs | CMR | 42 lbs/Mft (63 kg/km) |
| <i>Multimedia Category 6A Shielded Cable for Use with Crestron® Systems</i> | | | | | | | | | | | | | |
| CT104/SDMP | 4 | 0.295" (7.49 mm) | 23 AWG Solid BC | Fluoropolymer | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Cross-Web/ Woven Fiberglass | Polyester-Backed Aluminum Foil (Aluminum Side In) | 24 AWG (7x32) TC | Plenum PVC, Black, White, Blue | 1.25" | 40 lbs | CMP | 46 lbs/Mft (69 kg/km) |
| <i>Multimedia Category 6A Shielded Cable for Use with Crestron® Systems: Plenum</i> | | | | | | | | | | | | | |

Electrical Specifications

| Part # | DCR Max @ 20°C | DCR Unbal. Max | Char. Imped. | Prop. Delay (Skew) Max | Vel. of Prop. | Temp. Rating (Installation, Operating) | Standards | | | | | | | | | | |
|------------------------------|--------------------------|----------------|---------------|------------------------|---------------|--|------------------|------|-------|------|------|------|------|------|------|-----|-----|
| CT104/SDM Series | 8.9 Ω/100 m (328 ft) | 4.0% | 100 Ω (+/-15) | 35 ns/100 m | 70% | 0°C to +60°C, -20°C to +75°C | ANSI/TIA 568-C.2 | | | | | | | | | | |
| | | | Freq. (MHz) | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 | 150 | 200 | 250 | 300 | 400 | 500 |
| PSACR* (dB/100 m) (min) | ANSI/TIA 568-C.2 | 70.2 | 59.5 | 51.4 | 46.8 | 44.4 | 39.4 | 30.4 | 23.2 | 16.0 | 10.2 | 5.2 | 0.9 | — | — | — | — |
| ACR* (dB/100 m) (min) | ANSI/TIA 568-C.2 | 72.2 | 61.5 | 53.4 | 48.8 | 46.4 | 41.4 | 32.4 | 25.2 | 18.0 | 12.2 | 7.2 | 2.9 | — | — | — | — |
| Attenuation (dB/100 m) (min) | ANSI/TIA 568-C.2 | 2.1 | 3.8 | 5.9 | 7.5 | 8.4 | 10.5 | 15.0 | 19.1 | 23.7 | 27.8 | 31.1 | 34.3 | 40.1 | 45.3 | — | — |
| PSNEXT (dB/100 m) (min) | ANSI/TIA 568-C.2 | 72.3 | 63.3 | 57.3 | 54.2 | 52.8 | 49.9 | 45.4 | 42.3 | 39.7 | 37.8 | 36.3 | 35.1 | 33.3 | 31.8 | — | — |
| NEXT (dB/100 m) (min) | ANSI/TIA 568-C.2 | 74.3 | 65.3 | 59.3 | 56.2 | 54.8 | 51.9 | 47.4 | 44.3 | 41.7 | 39.8 | 38.3 | 37.1 | 35.3 | 33.8 | — | — |
| ACRF (dB/100 m) (min) | ANSI/TIA 568-C.2 | 64.8 | 52.8 | 44.8 | 40.7 | 38.8 | 34.9 | 28.9 | 24.8 | 21.3 | 18.8 | 16.8 | 15.3 | 12.8 | 10.8 | — | — |
| PSACRF (dB/100 m) (min) | ANSI/TIA 568-C.2 | 67.8 | 55.8 | 47.8 | 43.7 | 41.8 | 37.9 | 31.9 | 27.8 | 24.3 | 21.8 | 19.8 | 18.3 | 15.8 | 13.8 | — | — |
| Return Loss (dB) (min) | ANSI/TIA 568-C.2 | 20.0 | 23.0 | 25.0 | 25.0 | 25.0 | 23.6 | 21.5 | 20.1 | 18.9 | 18.0 | 17.3 | 16.8 | 15.9 | 15.2 | — | — |
| TCL (dB/100 m) (min) | ANSI/TIA 568-C.2 | 40.0 | 40.0 | 40.0 | 38.0 | 37.0 | 35.1 | 32.0 | 30.0 | 28.2 | 27.0 | 26.0 | 25.2 | 24.0 | 23.0 | — | — |
| | ANSI/TIA 568-C.2 | 67.0 | 67.0 | 67.0 | 67.0 | 67.0 | 67.0 | 65.6 | 62.5 | 59.9 | 58.0 | 56.5 | 56.3 | 53.5 | 52.0 | — | — |
| PSANEXT (dB/100 m) (min) | General Cable Guaranteed | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 71.6 | 68.5 | 65.9 | 64.0 | 62.5 | 61.3 | 59.5 | 58.0 | — | — |
| | General Cable Typical | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 83.6 | 80.5 | 77.9 | 76.0 | 74.5 | 73.3 | 71.5 | 70.0 | — | — |
| | ANSI/TIA 568-C.2 | 67.0 | 66.2 | 58.2 | 54.1 | 52.2 | 48.3 | 42.3 | 38.2 | 34.7 | 32.2 | 30.2 | 28.7 | 26.2 | 24.2 | — | — |
| PSANEXT (dB/100 m) (min) | General Cable Guaranteed | 73.0 | 72.2 | 64.2 | 60.1 | 58.2 | 54.3 | 48.3 | 44.2 | 40.7 | 38.2 | 36.2 | 34.7 | 32.2 | 30.2 | — | — |
| | General Cable Typical | 85.0 | 84.2 | 76.2 | 72.1 | 70.2 | 66.3 | 60.3 | 56.2 | 52.7 | 50.2 | 48.2 | 46.7 | 44.2 | 42.2 | — | — |

*PSACR & ACR not specified in ANSI/TIA 568-C.2

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NETWORK

Multimedia Cat 5e Cable for Use with Crestron® Systems



The Gepco® Brand CT504/SDM Multimedia Cat 5e Cable for use with Crestron® Systems features extended bandwidth and precision tolerances to meet or exceed the latest ANSI/TIA and ISO standards. Designed to deliver reliability in leading-edge networking, data and video applications, every reel is ETL verified and UL listed to ensure consistent performance, while the TRU-Mark® Marking System sequentially marks every two feet of cable in descending order. CT504/SDM Multimedia Cable is available in plenum and riser constructions.

Features & Benefits

Supports 1080p HD Video, 1920 x 1200 WUXGA Computer, HD 7.1 Multi-Channel Audio and Ethernet Control Signals

Foil Shield Reduces Electromagnetic Interference (EMI) for Optimal Performance

Tested to 350 MHz

TRU-Mark® Print Legend with Sequential Footage

Third Party Verified for Guaranteed Performance

Applications

1000 BASE-T (Gigabit Ethernet)

E52/155 Mbps ATM

E100/10 BASE-T (IEEE 802.3)

IEEE 802.3af DTE Power (PoE)

IEEE 802.3at for PoE Plus

T1

Voice

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Cond. | Insulation | Pair Color Code | Core Tape | Shield | Drain Wire | Jacket | Min. Bend Radius | Max. Pulling Force | UL Type | Weight |
|--|------------|------------------|-----------------|---------------|--|-----------|---|--------------------|--------------------------------|------------------|--------------------|---------|-----------------------|
| CT504/SDM | 4 | 0.250" (6.35 mm) | 24 AWG Solid BC | Polyolefin | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Polyester | Polyester-Backed Aluminum Foil (Aluminum Side In) | 26 AWG Stranded TC | PVC, Black, White, Blue | 1.0" | 25 lbs | CMR | 36 lbs/Mft (63 kg/km) |
| <i>Multimedia Category 5e Cable for Use with Crestron® Systems</i> | | | | | | | | | | | | | |
| CT504/SDMP | 4 | 0.225" (5.72 mm) | 24 AWG Solid BC | Flouropolymer | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Polyester | Polyester-Backed Aluminum Foil (Aluminum Side In) | 26 AWG Stranded TC | Plenum PVC, Black, White, Blue | 1.0" | 25 lbs | CMP | 32 lbs/Mft (69 kg/km) |
| <i>Multimedia Category 5e Cable for Use with Crestron® Systems: Plenum</i> | | | | | | | | | | | | | |

Electrical Specifications

| Part # | DCR Max @ 20°C | DCR Unbal. Max | Char. Imped. | Prop. Delay (Skew) Max | Vel. of Prop. (Plenum, Non-Plenum) | Temp. Rating (Installation, Operating) | Standards | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------------------|----------------|---------------|------------------------|------------------------------------|--|--|-------------|------|------|------|------|------|------|-------|------|-----|-----|-----|-----|-----|-----|-------------------------|------|------|------|------|------|------|------|------|------|-----|---|---|---|---|-----------------------|------|------|------|------|------|------|------|------|------|-----|---|---|---|---|---------------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| CT504/SDM Series | 8.9 Ω/100 m (328 ft) | 3.0% | 100 Ω (+/-15) | 45 ns/100 m | 72%, 70% | 0°C to +60°C, -20°C to +75°C | ANSI/TIA 568-C.2, ANSI/TIA 862 (Building Automation), ISO/IEC 11801 Ed. 2.0 (Class D), ICEA S-90-661 (Category 5e) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | <table border="1"> <thead> <tr> <th>Freq. (MHz)</th> <th>1</th> <th>4</th> <th>10</th> <th>16</th> <th>20</th> <th>25</th> <th>31.25</th> <th>62.5</th> <th>100</th> <th>155</th> <th>200</th> <th>250</th> <th>300</th> <th>350</th> </tr> </thead> <tbody> <tr> <td>PSACR* (dB/100 m) (min)</td> <td>60.3</td> <td>49.2</td> <td>40.8</td> <td>36.0</td> <td>33.5</td> <td>30.9</td> <td>28.2</td> <td>18.4</td> <td>10.3</td> <td>1.4</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>ACR* (dB/100 m) (min)</td> <td>63.3</td> <td>52.2</td> <td>43.8</td> <td>39.0</td> <td>36.5</td> <td>33.9</td> <td>31.2</td> <td>21.4</td> <td>13.3</td> <td>4.4</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Insertion Loss (dB/100 m) (max)</td> <td>2.0</td> <td>4.1</td> <td>6.5</td> <td>8.2</td> <td>9.3</td> <td>10.4</td> <td>11.7</td> <td>17.0</td> <td>22.0</td> <td>28.0</td> <td>32.4</td> <td>36.9</td> <td>41.0</td> <td>44.9</td> </tr> <tr> <td>PSNEXT (dB/100 m) (min)</td> <td>62.3</td> <td>53.3</td> <td>47.3</td> <td>44.2</td> <td>42.8</td> <td>41.3</td> <td>39.9</td> <td>35.4</td> <td>32.3</td> <td>29.4</td> <td>27.8</td> <td>26.3</td> <td>25.1</td> <td>24.1</td> </tr> <tr> <td>NEXT (dB/100 m) (min)</td> <td>65.3</td> <td>56.3</td> <td>50.3</td> <td>47.2</td> <td>45.8</td> <td>44.3</td> <td>42.9</td> <td>38.4</td> <td>35.3</td> <td>32.4</td> <td>30.8</td> <td>29.3</td> <td>28.3</td> <td>27.1</td> </tr> <tr> <td>PSACRF (dB/100 m) (min)</td> <td>60.8</td> <td>48.8</td> <td>40.8</td> <td>36.7</td> <td>34.8</td> <td>32.8</td> <td>30.9</td> <td>24.9</td> <td>20.8</td> <td>17.0</td> <td>14.8</td> <td>12.8</td> <td>11.3</td> <td>9.9</td> </tr> <tr> <td>ACRF (dB/100 m) (min)</td> <td>63.8</td> <td>51.8</td> <td>43.8</td> <td>39.7</td> <td>37.8</td> <td>35.8</td> <td>33.9</td> <td>27.9</td> <td>23.8</td> <td>20.0</td> <td>17.8</td> <td>15.8</td> <td>14.3</td> <td>12.9</td> </tr> <tr> <td>Return Loss (dB) (min)</td> <td>20.0</td> <td>23.0</td> <td>25.0</td> <td>25.0</td> <td>25.0</td> <td>24.3</td> <td>23.6</td> <td>21.5</td> <td>20.1</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table> | Freq. (MHz) | 1 | 4 | 10 | 16 | 20 | 25 | 31.25 | 62.5 | 100 | 155 | 200 | 250 | 300 | 350 | PSACR* (dB/100 m) (min) | 60.3 | 49.2 | 40.8 | 36.0 | 33.5 | 30.9 | 28.2 | 18.4 | 10.3 | 1.4 | — | — | — | — | ACR* (dB/100 m) (min) | 63.3 | 52.2 | 43.8 | 39.0 | 36.5 | 33.9 | 31.2 | 21.4 | 13.3 | 4.4 | — | — | — | — | Insertion Loss (dB/100 m) (max) | 2.0 | 4.1 | 6.5 | 8.2 | 9.3 | 10.4 | 11.7 | 17.0 | 22.0 | 28.0 | 32.4 | 36.9 | 41.0 | 44.9 | PSNEXT (dB/100 m) (min) | 62.3 | 53.3 | 47.3 | 44.2 | 42.8 | 41.3 | 39.9 | 35.4 | 32.3 | 29.4 | 27.8 | 26.3 | 25.1 | 24.1 | NEXT (dB/100 m) (min) | 65.3 | 56.3 | 50.3 | 47.2 | 45.8 | 44.3 | 42.9 | 38.4 | 35.3 | 32.4 | 30.8 | 29.3 | 28.3 | 27.1 | PSACRF (dB/100 m) (min) | 60.8 | 48.8 | 40.8 | 36.7 | 34.8 | 32.8 | 30.9 | 24.9 | 20.8 | 17.0 | 14.8 | 12.8 | 11.3 | 9.9 | ACRF (dB/100 m) (min) | 63.8 | 51.8 | 43.8 | 39.7 | 37.8 | 35.8 | 33.9 | 27.9 | 23.8 | 20.0 | 17.8 | 15.8 | 14.3 | 12.9 | Return Loss (dB) (min) | 20.0 | 23.0 | 25.0 | 25.0 | 25.0 | 24.3 | 23.6 | 21.5 | 20.1 | — | — | — | — | — |
| Freq. (MHz) | 1 | 4 | 10 | 16 | 20 | 25 | 31.25 | 62.5 | 100 | 155 | 200 | 250 | 300 | 350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PSACR* (dB/100 m) (min) | 60.3 | 49.2 | 40.8 | 36.0 | 33.5 | 30.9 | 28.2 | 18.4 | 10.3 | 1.4 | — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACR* (dB/100 m) (min) | 63.3 | 52.2 | 43.8 | 39.0 | 36.5 | 33.9 | 31.2 | 21.4 | 13.3 | 4.4 | — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insertion Loss (dB/100 m) (max) | 2.0 | 4.1 | 6.5 | 8.2 | 9.3 | 10.4 | 11.7 | 17.0 | 22.0 | 28.0 | 32.4 | 36.9 | 41.0 | 44.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PSNEXT (dB/100 m) (min) | 62.3 | 53.3 | 47.3 | 44.2 | 42.8 | 41.3 | 39.9 | 35.4 | 32.3 | 29.4 | 27.8 | 26.3 | 25.1 | 24.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEXT (dB/100 m) (min) | 65.3 | 56.3 | 50.3 | 47.2 | 45.8 | 44.3 | 42.9 | 38.4 | 35.3 | 32.4 | 30.8 | 29.3 | 28.3 | 27.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PSACRF (dB/100 m) (min) | 60.8 | 48.8 | 40.8 | 36.7 | 34.8 | 32.8 | 30.9 | 24.9 | 20.8 | 17.0 | 14.8 | 12.8 | 11.3 | 9.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACRF (dB/100 m) (min) | 63.8 | 51.8 | 43.8 | 39.7 | 37.8 | 35.8 | 33.9 | 27.9 | 23.8 | 20.0 | 17.8 | 15.8 | 14.3 | 12.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Return Loss (dB) (min) | 20.0 | 23.0 | 25.0 | 25.0 | 25.0 | 24.3 | 23.6 | 21.5 | 20.1 | — | — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: Results beyond 100 MHz for reference only.
*PSACR & ACR not specified in ANSI/TIA 568-C.2

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AUTOMATION

Control Cable for Use with Crestron® Systems



Features & Benefits

- 22 AWG Low-Cap, Shielded Single-Pair
- Low-Loss Foam Dielectric (Data Pair)
- 18 AWG Power Conductors
- Yellow Stripe for Easy Identification
- UL Rated for Permanent Installation

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Conductor | Data Insulation (Type, OD, Color) | Data Shield & Drain | Power Conductors | Power Insulation | Overall Jacket | UL Type | Approx. Weight |
|---|----------------------------|------------------|---------------------------|---|--|----------------------------|---|--------------------------------------|------------|-----------------------|
| 18/22CRT | 2 (One Power, One Data) | 0.242" (6.15 mm) | 22 AWG (7x30) Stranded BC | Foam PE, 0.022" (0.559 mm), Blue & White | 100% Foil with 24 AWG (7x32) Stranded TC | 18 AWG (7x26) Stranded BC | PVC, 0.010" (0.254 mm) Red & Black | PVC, Blue with Yellow Stripe | CL3R, FT-4 | 41 lbs/Mft (61 kg/km) |
| <i>Control Cable for Use with Crestron® Systems</i> | | | | | | | | | | |
| 18/22CRTP | 2 (One Power, One Data) | 0.195" (4.95 mm) | 22 AWG (7x30) Stranded BC | Foam FEP, 0.020" (0.508 mm), Blue & White | 100% Foil with 24 AWG (7x32) Stranded TC | 18 AWG (16x30) Stranded BC | Plenum PVC, 0.009" (0.229 mm) Red & Black | Plenum, PVC, Blue with Yellow Stripe | CMP | 29 lbs/Mft (43 kg/km) |
| <i>Control Cable for Use with Crestron® Systems: Plenum</i> | | | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Capacitance | Conductor DCR | Drain DCR | Velocity of Propagation | Capacitance | Power Conductor DCR |
|-----------|-----------|-------------------------------|---------------|------------|-------------------------|-------------------------------|---------------------|
| 18/22CRT | 95 Ω | 12.5 pF/ft Between Conductors | 15.3 Ω/Mft | 23.8 Ω/Mft | 79% | 31.7 pF/ft Between Conductors | 6.0 Ω/Mft |
| 18/22CRTP | 95 Ω | 12.5 pF/ft Between Conductors | 15.3 Ω/Mft | 23.8 Ω/Mft | 82% | 31.7 pF/ft Between Conductors | 6.7 Ω/Mft |

AUTOMATION

Hybrid Cable for Use with Crestron® Systems



Features & Benefits

- Touch Panel Elements
- Cat 5e Elements
- RG6Q Coax Elements (Optional)
- Common Outer Jacket for Easy Pulling
- UL Rated for Permanent Installation

Mechanical Specifications

| Part # | Control Elements (#, Color) | Cat 5e Elements (#, Color) | RG6Q Elements (#, Color) | Master Jacket (Type, Color) | Overall Diameter | UL Type | Approx. Weight |
|--|-----------------------------|---|--------------------------|------------------------------|------------------|----------|-------------------------|
| 18/22CCT | 1, Teal with Yellow Stripe | 1, White | N/A | PVC, Teal with Red Stripe | 0.524" (13.3 mm) | CL3/FT-4 | 98 lbs/Mft (143 kg/km) |
| <i>Hybrid Cable for Use with Crestron® Systems: 18/22CRT + 1 Cat 5e</i> | | | | | | | |
| 18/22CCD | 1, Teal with Yellow Stripe | 2, One White, One Gray | N/A | PVC, Teal with Black Stripe | 0.547" (13.9 mm) | CL3/FT-4 | 130 lbs/Mft (194 kg/km) |
| <i>Hybrid Cable for Use with Crestron® Systems: 18/22CRT + 2 Cat 5e</i> | | | | | | | |
| 18/22CCQ | 1, Teal with Yellow Stripe | 4, One White, One Green, One Gray, One Blue | N/A | PVC, Teal with White Stripe | 0.652" (16.6 mm) | CL3/FT-4 | 189 lbs/Mft (282 kg/km) |
| <i>Hybrid Cable for Use with Crestron® Systems: 18/22CRT + 4 Cat 5e</i> | | | | | | | |
| 18/22CDC | 1, Teal with Yellow Stripe | 2, One White, One Gray | 2, Black & White | PVC, Teal with Orange Stripe | 0.750" (19.1 mm) | CL3/FT-4 | 177 lbs/Mft (264 kg/km) |
| <i>Hybrid Cable for Use with Crestron® Systems: 18/22CRT + 2 Cat 5e + 2 RG 6 Quad Coax</i> | | | | | | | |

Touch Panel Control ELEMENT SPECIFICATIONS, See Top of Page (Part #18/22CRT).
 Cat 5e ELEMENT SPECIFICATIONS, See Page 95.
 RG6Q ELEMENT SPECIFICATIONS, Consult Factory for Detailed Specifications.

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AUTOMATION

Control Cable for Use with AMX® Systems



Features & Benefits

- 22 AWG Low-Cap, Shielded Single-Pair For AMX® Systems
- Low-Loss Foam Dielectric (Data Pair)
- 18 AWG Power Conductors
- UL Rated for Permanent Installation

| Mechanical Specifications | | | | | | | | | | |
|---------------------------|---|------------------|---------------------------|---|--|----------------------------|---|-------------------|------------|-----------------------|
| Part # | # of Pairs | Nominal OD | Conductor | Data Insulation (Type, OD, Color) | Data Shield & Drain | Power Conductors | Power Insulation | Overall Jacket | UL Type | Approx. Weight |
| 18/22AXL | 2 (One Power, One Data) | 0.242" (6.15 mm) | 22 AWG (7x30) Stranded BC | Foam PE, 0.022" (0.559 mm), Blue & White | 100% Foil with 24 AWG (7x32) Stranded TC | 18 AWG (7x26) Stranded BC | PVC, 0.010" (0.254 mm), Red & Black | PVC, Black | CL3R, FT-4 | 41 lbs/Mft (61 kg/km) |
| | Control Cable for Use with AMX® Systems | | | | | | | | | |
| 18/22AXLP | 2 (One Power, One Data) | 0.195" (4.95 mm) | 22 AWG (7x30) Stranded BC | Foam FEP, 0.020" (0.508 mm), Blue & White | 100% Foil with 24 AWG (7x32) Stranded TC | 18 AWG (16x30) Stranded BC | Plenum PVC, .009" (0.229 mm), Red & Black | Plenum PVC, Black | CMP | 29 lbs/Mft (43 kg/km) |
| | Control Cable for Use with AMX® Systems: Plenum | | | | | | | | | |

| Electrical Specifications | | | | | | | |
|---------------------------|-----------|-------------------------------|---------------|------------|-------------------------|-------------------------------|---------------------|
| Part # | Impedance | Capacitance | Conductor DCR | Drain DCR | Velocity of Propagation | Capacitance | Power Conductor DCR |
| 18/22AXL | 95 Ω | 12.5 pF/ft Between Conductors | 15.3 Ω/Mft | 23.8 Ω/Mft | 79% | 31.7 pF/ft Between Conductors | 6.0 Ω/Mft |
| 18/22AXLP | 95 Ω | 12.5 pF/ft Between Conductors | 15.3 Ω/Mft | 23.8 Ω/Mft | 82% | 31.7 pF/ft Between Conductors | 6.7 Ω/Mft |

AUTOMATION

Keypad & Volume Control Cable



Features & Benefits

- Cat 5e Element
- Four Audio Conductors
- Common Outer Jacket with Color Stripe
- UL Rated for Permanent Installation

| Mechanical Specifications | | | | | | |
|---------------------------|---------------------------------------|---|-----------------------------|------------------|----------|-------------------------|
| Part # | Cat 5e Elements (#, Color) | Audio Conductors (#, Color, DCR, Capacitance) | Master Jacket (Type, Color) | Overall Diameter | UL Type | Approx. Weight |
| 164NCAT | 1, Gray | 4x16 AWG (65x34), Stranded BC, Black, Red, White, Green, 4.0 Ω/Mft, 48.4 pF/ft | PVC, Teal with Gray Stripe | 0.388" (9.86 mm) | CL3 & CM | 93 lbs/Mft (139 kg/km) |
| | Keypad & Volume Control Cable: 16 AWG | | | | | |
| 144NCAT | 1, Gray | 4x14 AWG (105x34), Stranded BC, Black, Red, White, Green, 2.5 Ω/Mft, 40.5 pF/ft | PVC, Blue with Gray Stripe | 0.415" (10.5 mm) | CL3 & CM | 125 lbs/Mft (186 kg/km) |
| | Keypad & Volume Control Cable: 14 AWG | | | | | |

Cat 5e ELEMENT SPECIFICATIONS, See Page 95.

AMX is a registered trademark of AMX LLC.



LIGHTING CONTROL

Power Cable for Use with Lutron® Homeworks® Systems



Features & Benefits

- 18 AWG Conductors
- Two- and Four-Conductor Versions
- Shielded with Drain Wire
- Color Striped for Easy Identification
- UL Rated for Permanent Installation

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductors (Type, DCR) | Insulation (Type, Wall Thick, Color Code, Capacitance) | Shield | Drain Wire (Type, DCR) | Jacket (Type, Color) | UL Type | Approx. Weight |
|---|------------|------------------|--------------------------------------|--|-----------|---------------------------------------|-----------------------------|--------------------------------------|------------------------|
| 182LUTDS | 2 | 0.268" (6.81 mm) | 18 AWG (7x26) Stranded BC, 6.0 Ω/Mft | PVC, 0.015" (0.381), Nylon, 0.005" (0.127 mm), 600 Volt, Black & Red, 39 pF/ft Between Conductors | 100% Foil | 20 AWG (7x28) Stranded TC, 10.2 Ω/Mft | PVC, Blue with Pink Stripe | TC Sunlight-Resistant, Direct Burial | 44 lbs/Mft (66 kg/km) |
| Power Cable for Use with Lutron® Homeworks® Systems: Two-Conductor | | | | | | | | | |
| 184LUTDS | 4 | 0.314" (7.98 mm) | 18 AWG (7x26) Stranded BC, 6.0 Ω/Mft | PVC, 0.015" (0.381), Nylon, 0.005" (0.127 mm), 600 Volt, Black, Red, White, Green, 39 pF/ft Between Conductors | 100% Foil | 20 AWG (7x28) Stranded TC, 10.2 Ω/Mft | PVC, Blue with White Stripe | TC Sunlight-Resistant, Direct Burial | 69 lbs/Mft (103 kg/km) |
| Power Cable for Use with Lutron® Homeworks® Systems: Four-Conductor | | | | | | | | | |

LIGHTING CONTROL

Keypad Cable for Use with Lutron® Homeworks® Systems



Features & Benefits

- 22 AWG Shielded Single-Pair
- 18 AWG Power Conductors
- Low-Loss PE Insulation
- Yellow Stripe for Easy Identification
- UL Rated for Permanent Installation

Mechanical Specifications

| Part # | Overall Diameter | Communication Elements | Power Elements | Jacket (Type, Color) | UL Type | Approx. Weight |
|--|------------------|---|---|------------------------------|----------|-----------------------|
| 18/22KYP | 0.253" (6.43 mm) | Conductors: 1 Pair 22 AWG (7x30) Stranded BC, 15.3 Ω/Mft Insulation: PE, 0.013" (0.330 mm), White & Violet, 22 pF/ft Shield: 100% Foil with 24 AWG (7x32) TC Drain | Conductors: 1 Pair 18 AWG (16x30) Stranded BC, 16.7 Ω/Mft Insulation: PVC, 0.015" (0.381 mm), Black & Red | PVC, Blue with Yellow Stripe | CL3 & CM | 40 lbs/Mft (60 kg/km) |
| Keypad Cable for Use with Lutron® Homeworks® Systems | | | | | | |

Lutron and Homeworks are registered trademark of Lutron Electronics Co., Inc.

LIGHTING CONTROL

Control Cable for Use with Lutron® GRAFIK Eye® Systems



Features & Benefits

- 22 AWG Shielded Single-Pair
- 18 or 12 AWG Power Conductors
- Ground Wire (12/22LGRX Only)
- Color Stripe for Easy Identification
- UL Rated for Permanent Installation

| Mechanical Specifications | | | | | | | |
|--|------------------|--|---|---|-----------------------------------|----------|---------------------------|
| Part # | Overall Diameter | Communication Elements | Power Elements | Ground Elements | Jacket (Type, Color) | UL Type | Approx. Weight |
| 18/22GFE | 0.253" (6.43 mm) | Conductors: 1 Pair 22 AWG (7x30) Stranded BC, 15.3 Ω/Mft | Conductors: 1 Pair 18 AWG (16x30) Stranded BC, 6.7 Ω/Mft | N/A | PVC, Blue with Green Stripe | CL3 & CM | 40 lbs/Mft (60 kg/km) |
| | | Insulation: PE, 0.013" (0.33 mm), White & Violet, 22 pF/ft | Insulation: PVC, 0.015" (0.38 mm), Black & Red | | | | |
| Control Cable for Use with Lutron® GRAFIK Eye® Systems: 18 AWG Power Conductors | | | | | | | |
| 12/22LGRX | 0.300" (7.62 mm) | Conductors: 1 Pair 22 AWG (7x30) Stranded BC, 15.3 Ω/Mft | Conductors: 1 Pair 12 AWG (19x25) Stranded BC, 1.8 Ω/Mft | Conductors: 1 Cond. 18 AWG (7x26) Stranded BC, 6.0 Ω/Mft | PVC, Blue with Blue Stripe | CL3 & CM | 85 lbs/Mft (127 kg/km) |
| | | Insulation: PE, 0.013" (0.33 mm), White & Violet, 22 pF/ft | Insulation: PVC, 0.015" (0.38 mm), Black & Red | Insulation: PVC, 0.010" (0.254 mm), Orange | | | |
| Control Cable for Use with Lutron® GRAFIK Eye® Systems: 12 AWG Power Conductors with Ground Wire | | | | | | | |

LIGHTING CONTROL

Hybrid Cable for Use with Lutron® Sivoia® Systems



Features & Benefits

- 18 AWG Shielded Conductors
- 16 AWG Power Conductors
- Ground Wire
- Red Stripe for Easy Identification
- UL Rated for Permanent Installation

| Mechanical Specifications | | | | | | | |
|---|------------------|--|---|--|---|-------------|---------------------------|
| Part # | Overall Diameter | Communication Elements | Power Elements | Ground Elements | Master Jacket (Type, Color) | UL Type | Weight |
| 16/18SVA | 0.380" (9.65 mm) | Conductors: 4 x 18 AWG (16x30) Stranded BC, 6.7 Ω/Mft | Conductors: 2 x 16 AWG (26x30) Stranded BC, 4.0 Ω/Mft | Conductors: 1 x 18 AWG (16x30) Stranded BC, 6.7 Ω/Mft | PVC, Blue with Red Stripe | CL3 & CM | 95 lbs/Mft (142 kg/km) |
| | | Insulation: PE, 0.015" (0.381 mm), Violet, Yellow, Gray, Blue, 17.5 pF/ft | Insulation: PVC, 0.015" (0.381 mm), Red/White & Red | Insulation: PVC, 0.015" (0.381 mm), Green/Yellow | | | |
| Hybrid Cable for Use with Lutron® Sivoia® Systems | | | | | | | |
| 16/18SVAP | 0.322" (8.18 mm) | Conductors: 4 x 18 AWG (16x30) Stranded BC, 5.46 Ω/Mft | Conductors: 2 x 16 AWG (26x30) Stranded BC, 4.0 Ω/Mft | Conductors: 1 x 18 AWG (19x30) Stranded BC, 5.46 Ω/Mft | Plenum PVC, Natural with Red Stripe | CL3P or CMP | 83 lbs/Mft (124 kg/km) |
| | | Insulation: SGPVC, 0.010" (0.254 mm), Violet, Yellow, Gray, Blue, 17.5 pF/ft | Insulation: SGPVC, 0.010" (0.254 mm), Black, Red | Insulation: SGPVC, 0.010" (0.254 mm), Green | | | |
| Hybrid Cable for Use with Lutron® Sivoia® Systems: Plenum | | | | | | | |

Lutron, GRAFIK Eye and Sivoia are registered trademarks of Lutron Electronics Co., Inc.



LIGHTING CONTROL

Power and Data Cable for Use with Vantage® Systems



Features & Benefits

- Low-Loss 16 AWG Conductors
- Dual-Layer Dielectric
- Power and Data are Transmitted Over a Single Pair
- Purple Jacket with Yellow Stripe for Easy Identification
- UL Rated for Permanent Installation

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor (Type, DCR) | Insulation (Type, Wall Thick, Color Code, Capacitance) | Jacket (Type, Color) | UL Type | Approx. Weight |
|---|------------|------------------|---------------------------------------|---|--------------------------------|---|-----------------------|
| 162VANT65 | 2 | 0.285" (7.24 mm) | 16 AWG (65x34) Stranded BC, 4.0 Ω/Mft | PVC, 0.016" (0.406 mm) Nylon, 0.005" (0.127 mm), Black & Red, 25.7 pF/ft Between Conductors | PVC, Violet with Yellow Stripe | (UL) TC 600 Volt or (UL) CL3 or CM 300 Volt | 46 lbs/Mft (69 kg/km) |
| 16 AWG Power and Data Cable for Use with Vantage® Systems | | | | | | | |

LIGHTING CONTROL

Control Station Cable for Use with LiteTouch® Systems



Features & Benefits

- Four 16 AWG Conductors
- Orange Jacket for Easy Identification
- UL Rated for Permanent Installation

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductors (Type, DCR) | Insulation (Type, Wall Thick, Color Code, Capacitance) | Jacket (Type, Color) | UL Type | Approx. Weight |
|---|------------|------------------|-------------------------------------|--|----------------------|----------|-----------------------|
| 164LTCH | 4 | 0.300" (7.62 mm) | 16 AWG (65x34) Stranded BC, 4 Ω/Mft | PVC, 0.015" (0.381 mm), Black, Blue, Red, White | PVC, Orange | CL3/PLTC | 64 lbs/Mft (95 kg/km) |
| Control Station Cable for Use with LiteTouch® Systems | | | | | | | |

LIGHTING CONTROL

Enclosure & Module Cable for Use with LiteTouch® Systems



Features & Benefits

- Four 22 AWG Conductors
- Foil Shield with Drain Wire
- UL Rated for Permanent Installation

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductors (Type, DCR) | Insulation (Type, Wall Thick, Color Code, Capacitance) | Shield | Drain Wire (Type, DCR) | Jacket (Type, Color) | UL Type | Approx. Weight |
|--|------------|------------------|---------------------------------------|--|-----------|---------------------------------------|----------------------|----------|-----------------------|
| 224SLTCH | 4 | 0.222" (5.64 mm) | 22 AWG (7x30) Stranded BC, 15.3 Ω/Mft | PVC, 0.015" (0.381 mm), Black, Red, White & Green, 35 pF/ft Between Conductors | 100% Foil | 24 AWG (7x32) Stranded BC, 23.8 Ω/Mft | PVC, Green | CL3 & CM | 32 lbs/Mft (48 kg/km) |
| Enclosure & Module Cable for use with LiteTouch® Systems | | | | | | | | | |

Vantage is a registered trademark of Legrand Home Systems, Inc. LiteTouch is a registered trademark of LiteTouch, Inc.

LIGHTING CONTROL
DMX Lighting Control Cable



The Gepco® Brand DLC series lighting control cable is a true DMX cable with an exceptionally durable and flexible construction. The DLC224 and DLC222 meets the USITT standards for DMX512 cable specifications—120 Ω impedance, low capacitance, and double (foil and braid) shield. Unlike conventional cables that are not intended for data transmission, the DLC series offers reliable data transfer through its data-specific design. In addition, the DLC series features all-weather, extra-flexible jacket materials that are tough, abrasion-resistant and remain flexible in hot or cold temperature environments.

Features & Benefits

- True DMX512 Construction (DLC224 & DLC222)
- Low-Capacitance Data Pairs
- Double Shield (Foil & Braid)
- Drain Wire for Easy Shield Termination
- Color-Coded Conductors for Easy Identification
- Meets or Exceeds USITT Standards (DLC224 & DLC222)
- One- or Two-Pair Designs Available
- Durable, Flexible, All-Weather Jacket

Applications

- DMX512 Lighting Control (DLC224)
- Remote or Permanent Installation

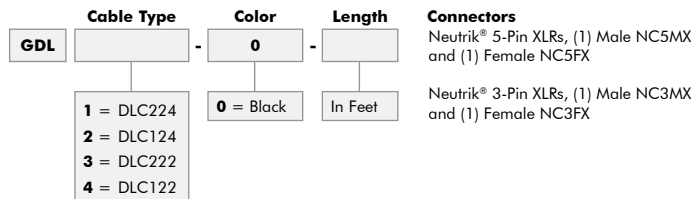
| Mechanical Specifications | | | | | | | | |
|--|---|------------------|---------------------------|---|-------------------------|---------------------------|---------------------------------|-----------------------|
| Part # | # of Cond. | Nominal OD | Conductors | Insulation (Type, Wall, Color Code) | Shield | Drain Wire | Jacket | Approx. Weight |
| DLC122 | 2 | 0.245" (6.22 mm) | 22 AWG (7x30) Stranded TC | Foam PE, 0.025" (0.635 mm), Black & White | 100% Foil, 90% TC Braid | 22 AWG (7x30) Stranded TC | Flexible Durable PU, Black | 33 lbs/Mft (49 kg/km) |
| <i>DMX Lighting Control Cable: 1 Pair</i> | | | | | | | | |
| DLC222 | 4 | 0.278" (7.06 mm) | 22 AWG (7x30) Stranded TC | Foam PE, 0.025" (0.635 mm), Black & White, Red & Blue | 100% Foil, 90% TC Braid | 22 AWG (7x30) Stranded TC | Flexible Durable PU, Black | 47 lbs/Mft (70 kg/km) |
| <i>DMX512 Lighting Control Cable: 2 Pair</i> | | | | | | | | |
| DLC124 | 2 | 0.241" (6.12 mm) | 24 AWG (7x32) Stranded TC | Foam PE, 0.020" (0.508 mm), Black & White | 100% Foil, 90% TC Braid | 24 AWG (7x32) Stranded TC | Flexible All-Weather TPE, Black | 33 lbs/Mft (49 kg/km) |
| <i>DMX Lighting Control Cable: 1 Pair</i> | | | | | | | | |
| DLC224 | 4 | 0.270" (6.86 mm) | 24 AWG (7x32) Stranded TC | Foam PE, 0.020" (0.508 mm) Black & White, Red & Blue | 100% Foil, 90% TC Braid | 24 AWG (7x32) Stranded TC | Flexible All-Weather TPE, Black | 44 lbs/Mft (66 kg/km) |
| <i>DMX512 Lighting Control Cable: 2 Pair</i> | | | | | | | | |
| Electrical Specifications | | | | | | | | |
| Part # | Capacitance | | Characteristic Impedance | | Cond. DCR | Shield & Drain DCR | | |
| DLC122 | 10.4 pF/ft Between Conductors 18.7 pF/ft Between One Conductor and Other Tied to Shield | | 120 Ω | | 14.7 Ω/Mft | 3.2 Ω/Mft | | |
| DLC222 | 10.4 pF/ft Between Conductors 18.7 pF/ft Between One Conductor and Other Tied to Shield | | 120 Ω | | 14.7 Ω/Mft | 2.5 Ω/Mft | | |
| DLC124 | 10.4 pF/ft Between Conductors, 18.7 pF/ft Between One Conductor and Other Tied to Shield | | 120 Ω | | 23.4 Ω/Mft | 3.8 Ω/Mft | | |
| DLC224 | 10.4 pF/ft Between Conductors, 18.7 pF/ft Between One Conductor and Other Tied to Shield | | 120 Ω | | 23.4 Ω/Mft | 2.9 Ω/Mft | | |

Recommended Pinout for 5-Pin XLR:

- Pin 1 - Shield
- Pin 2 - Black
- Pin 3 - Red
- Pin 4 - Blue
- Pin 5 - White

Recommended Pinout for 3-Pin XLR:

- Pin 1 - Shield
- Pin 2 - Black
- Pin 3 - White



Neutrik is a registered trademarks of Neutrik AG.



TOURING & STAGE LIGHTING CABLES

| Page | Broadcast | Commercial AV | Assemblies |
|------|-----------|---------------|------------|
| 108 | • | • | • |
| 109 | • | • | • |
| 110 | • | • | • |
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| 113 | | • | |

In This Section:

RunONE™ Powered Cables: Professional

RunONE™ Powered Cables: Touring

DMX Lighting Control

Portable Power Cord: Carol® Brand Super Vu-Tron® Entertainment & Stage Lighting Cable
105°C 600 Volt, UL Type SC and CSA Type PPC

Portable Power Cord: Carol® Brand Super Vu-Tron® Single Conductor Type W Extra-Flex Cable
90°C 2000 Volt, UL and CSA Type W

Portable Power Cord: Carol® Brand Super Vu-Tron® Supreme Types SJOOW/SOOW Cord
105°C 300 and 600 Volt, UL/CSA Portable Cord

Portable Power Cord: Carol® Brand HMI Lighting Cable
90°C 600 Volt, UL and CSA Type SOOW

Portable Power Cord: Carol® Brand Carolprene® Types SJOOW/SOOW Cord
90°C 600 Volt, UL/CSA Portable Cord

Portable Power Cord: Carol® Brand Lighting Cable for Socapex* Connector Applications
105°C 600 Volt, 12 and 14 AWG, 14 or 19 Conductor, UL and CSA AWM

*Socapex is a trademark of Amphenol Corporation.

RUGGED & UNIQUE DESIGNS THAT DELIVER PERFORMANCE FOR PORTABLE STAGE APPLICATIONS



RunONE™ Powered Cable

Saving time and hassle by allowing the user to replace multiple cables with a single, neat solution, each RunONE cable combines power with two, eight or 12 channels of 110 Ω balanced audio for line level, mic level or digital AES signals and can be used for self-powered speakers, staging applications and DMX lighting control.

Carol® Brand Portable Power Cord

Carol® Brand Portable Power Cord is designed to deliver temporary power to television and theater sets, mobile broadcast trucks, concerts, sporting events and other sites with the lowest possible electrical loss and failures.

DMX Lighting Control Cable

Ideal for heavy production use, rigging and touring conditions, Gepco Brand DLC122 and DLC124 are designed with 22 AWG conductors for use in extended distance runs without signal loss and feature an abrasion-resistant, yet flexible, jacket.

Application-Specific Jackets

Jacket compounds are specified for each cable type based upon the application. Each compound type has a unique combination of flexibility, abrasion resistance and temperature properties.

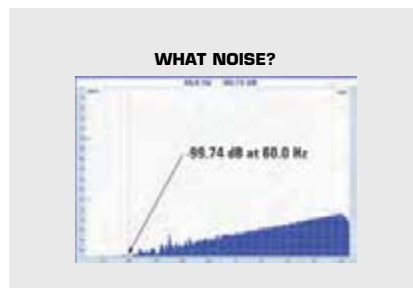
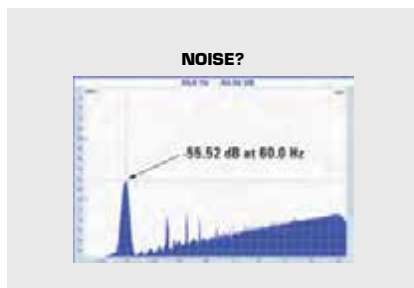
Indoor/Outdoor Use

Gepco® Brand and Carol® Brand touring and stage lighting cables are designed for indoor or outdoor use including the hostile environments found at live sounds venues.

Electrical Characteristics & Specifications

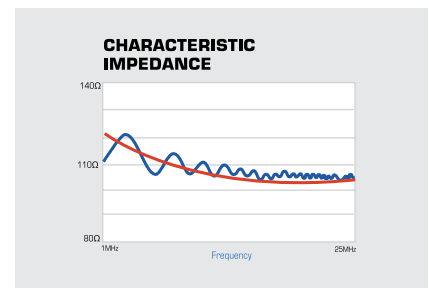
RunONE™ Powered Cables: Noise? What Noise?

Saving time and hassle while improving performance, Gepco Brand RunONE powered cables are designed with shielding to protect the audio signal from picking up the electromagnetic noise that can be introduced from the current in the power cable. Conventional Method: The first graph below shows the typical noise from bundled power and audio cables. RunONE: The second graph shows the reduced noise from RunONE powered cables.



Precision 110 Ω Impedance

Digital audio cables feature a 110 Ω characteristic impedance. Impedance matching ensures low attenuation and minimal signal reflection, which can result in bit-errors or jitter.



RunONE™ Powered Cables: Professional



Gepco® Brand RunONE™ Powered Cables combine audio and power, along with optional data, under a single durable, yet flexible jacket. Providing a portable and neat solution, RunONE cables save time and hassle. Each cable combines power with two, eight or 12 channels of 110 Ω balanced audio for line level, mic level or digital AES signals and can be used for self-powered speakers, staging applications and DMX lighting control. Additional configurations include two channels of Category 5e type cable that can be used for data drops or digital audio transmission in remote power and audio applications. Shielding around the power channels eliminates power noise from interrupting the audio/data signal, ensuring high-quality performance.

Features & Benefits

Audio

Precision 110 Ω Impedance
Low-Density Polyethylene Insulation

Power

Specialized Electrical-Only Design
Reduces Interference and EMI
Shielded Design with Tinned Copper Drain Wire

Applications

For Portable Use or Remote Environment
Self-Amplified Speakers
Audio + Power Snakes for Stage or FOH
DMX Lighting Control
AES3 Digital Audio
Microphone or Line Level Balanced
Analog Audio

Power Mechanical Specifications

| Conductor | Insulation (Type, Wall, Color) | Shield | Drain | Jacket (Type, OD) |
|----------------------------|---|-----------|----------------------------|-----------------------|
| 14 AWG (41x30) Stranded BC | PVC, 0.016" (0.41 mm) and Nylon, 0.005" (0.127 mm) Black, White and Green | 100% Foil | 18 AWG (16x30) Stranded TC | PVC, 0.349" (8.86 mm) |

Audio Mechanical Specifications

| Conductor | Insulation (Type, Wall, Color) | Shield | Drain | Filler | Jacket (Type, OD) |
|---------------------------|---|-----------|---------------------------|------------------|-----------------------|
| 24 AWG (7x32) Stranded TC | LDPE, 0.021" (0.53 mm), Black and White | 100% Foil | 22 AWG (7x30) Stranded TC | Polyethylene Rod | PVC, 0.184" (4.67 mm) |

Data Mechanical Specifications

| Conductor | Insulation (Type, Wall, Color) | Pair Color Code | Shield | Drain | Jacket (Type, OD) |
|-----------------|--------------------------------|--|-----------|------------------------|-----------------------|
| 24 AWG Solid BC | Polyolefin | Blue-White/Blue; Orange-White/Orange; Green-White/Green; Brown-White/Brown | 100% Foil | 26 AWG (7x34) Solid TC | PVC, 0.300" (7.62 mm) |

Overall Mechanical Specifications

| Master Jacket (Type, Color) | UL Type |
|-----------------------------|----------|
| Flexible PVC, Black | AWM 2464 |

Individual Mechanical Specifications

| Part # | # of Power | Power Color Code | # of Audio | Audio Color Code | # of Data | Data Color Code | OD | Weight |
|--------|-----------------|------------------|------------|------------------|-----------|-----------------|------------------|-------------------------|
| PA2 | 1 x 3 Conductor | Black | 2 Pair | Red and White | — | — | 0.645" (16.4 mm) | 206 lbs/Mft (307 kg/km) |
| PA2C | 1 x 3 Conductor | Black | 2 Pair | Red and White | 2 Cat 5e | Black & Gray | 0.830" (21.1 mm) | 271 lbs/Mft (404 kg/km) |
| PA8 | 1 x 3 Conductor | Black | 8 Pair | Base 10 | — | — | 0.907" (23.0 mm) | 339 lbs/Mft (505 kg/km) |
| PA12 | 1 x 3 Conductor | Black | 12 Pair | Base 10 | — | — | 1.006" (25.6 mm) | 424 lbs/Mft (632 kg/km) |
| PA12C | 1 x 3 Conductor | Black | 12 Pair | Base 10 | 2 Cat 5e | Black & Gray | 1.140" (29.0 mm) | 492 lbs/Mft (733 kg/km) |

Audio Electrical Specifications

| Capacitance | Impedance | Conductor DCR | Drain DCR |
|---|-----------|---------------|------------|
| 15 pF/ft between conductors, 27 pF/ft between one conductor and other tied to shield | 110 Ω | 25.6 Ω/Mft | 15.3 Ω/Mft |

Power Electrical Specifications

| Capacitance | Conductor DCR | Drain DCR |
|---|---------------|------------|
| 51 pF/ft between conductors, 93 pF/ft between one conductor and other tied to shield | 2.5 Ω/Mft | 6.45 Ω/Mft |

Data Electrical Specifications

| DCR Max @ 20°C | DCR Unbal. Max | Char. Imped. | Prop. Delay (Skew) Max | Vel. of Prop. (Non-Plenum, Plenum) | Temp. Rating (Installation, Operating) | | | | | | | | | | |
|----------------------|---------------------------------|---------------|------------------------|------------------------------------|--|------|------|-------|------|------|------|------|------|------|------|
| | 3.0% | 100 Ω (+/-15) | 45 ns/100 m | 70%, 72% | 0°C to +60°C, -20°C to +75°C | | | | | | | | | | |
| 8.9 Ω/100 m (328 ft) | Freq. (MHz) | 1 | 4 | 10 | 16 | 20 | 25 | 31.25 | 62.5 | 100 | 155 | 200 | 250 | 300 | 350 |
| | Insertion Loss (dB/100 m) (max) | 2.0 | 4.1 | 6.5 | 8.2 | 9.3 | 10.4 | 11.7 | 17.0 | 22.0 | 28.1 | 32.4 | 36.9 | 41.0 | 44.9 |
| | PSACR (dB/100 m) (min) | 60.3 | 49.2 | 40.8 | 36.0 | 33.5 | 30.9 | 28.2 | 18.4 | 10.3 | 1.4 | — | — | — | — |
| | ACR (dB/100 m) (min) | 63.3 | 52.2 | 43.8 | 39.0 | 36.5 | 33.9 | 31.2 | 21.4 | 13.3 | 4.4 | — | — | — | — |
| | PSNEXT (dB/100 m) (min) | 62.3 | 53.3 | 47.3 | 44.2 | 42.8 | 41.3 | 39.9 | 35.4 | 32.3 | 29.4 | 27.8 | 26.3 | 25.1 | 24.1 |
| | NEXT (dB/100 m) (min) | 65.3 | 56.3 | 50.3 | 47.2 | 45.8 | 44.3 | 42.9 | 38.4 | 35.3 | 32.4 | 30.8 | 29.3 | 28.1 | 27.1 |
| | PSACRF (dB/100 m) (min) | 60.8 | 48.8 | 40.8 | 36.7 | 34.8 | 32.8 | 30.9 | 24.9 | 20.8 | 17.0 | 14.8 | 12.8 | 11.3 | 9.9 |
| | ACRF (dB/100 m) (min) | 63.8 | 51.8 | 43.8 | 39.7 | 37.8 | 35.8 | 33.9 | 27.9 | 23.8 | 20.0 | 17.8 | 15.8 | 14.3 | 12.9 |
| | Return Loss (dB) (min) | 20.0 | 23.0 | 25.0 | 25.0 | 25.0 | 24.3 | 23.6 | 21.5 | 20.1 | — | — | — | — | — |

*Values are for reference only.

RunONE™ Powered Cables: Touring



The Touring Line of Gepco® Brand RunONE™ Powered Cables combine audio and power under a single durable, yet flexible jacket. Providing a portable and neat solution, RunONE cables save time and hassle. Each cable combines power with two, eight or 12 channels of 110 Ω balanced audio for line level, mic level or digital AES signals and can be used for self-powered speakers, staging applications and DMX lighting control. Shielding around the power channels eliminates power noise from interrupting the audio/data signal, ensuring high-quality performance. In addition, the RunONE Touring line uses 12 AWG power for extended distance and overall shielding for extra EMI protection.

Features & Benefits

Audio
 Precision 110 Ω Impedance
 Low-Density Polyethylene Insulation

Power
 Specialized Electrical-Only Design
 Reduces Interference and EMI
 Shielded Design with Tinned Copper Drain Wire
 12 AWG Power for Extended Distance and Overall Shield for Extra EMI Protection (Touring Line)

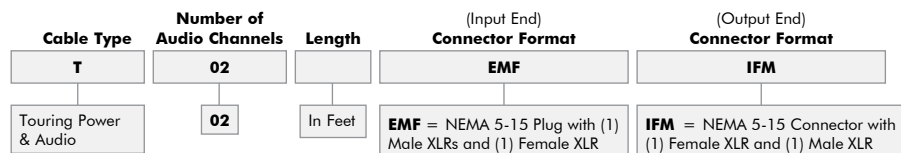
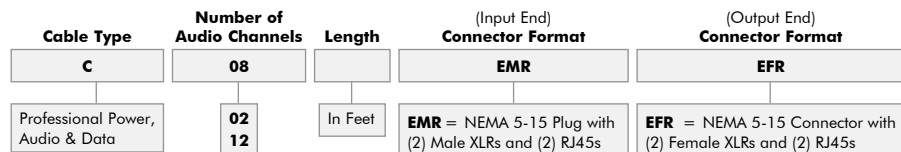
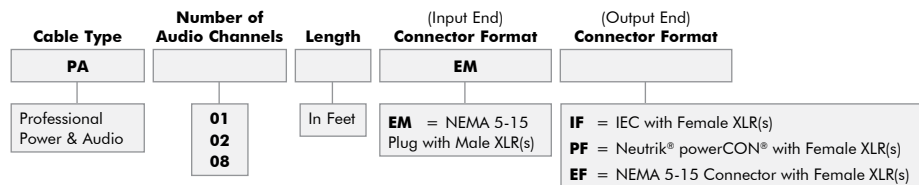
Applications

For Portable Use or Remote Environment
 Self-Amplified Speakers
 Audio + Power Snakes for Stage or FOH
 DMX Lighting Control
 AES3 Digital Audio
 Microphone or Line Level Balanced
 Analog Audio

| Power Mechanical Specifications | | | | | | | | | | |
|---|---|------------------|------------|------------------|---------------|----------------------------|-----------------------|-----------------------------|------------|-------------------------|
| Conductor | Insulation (Type, Wall, Color) | | | | Shield | Drain | Jacket (Type, OD) | | | |
| 12 AWG (105x32) Stranded BC | PVC, 0.016" (0.41 mm) and Nylon, 0.005" (0.127 mm) Black, White and Green | | | | 100% Foil | 18 AWG (7x26) Stranded TC | PVC, 0.396" (10.1 mm) | | | |
| Audio Mechanical Specifications | | | | | | | | | | |
| Conductor | Insulation (Type, Wall, Color) | | | | Shield | Drain | Filler | Jacket (Type, OD) | | |
| 24 AWG (7x32) Stranded TC | LDPE, 0.021" (0.533 mm), Black and White | | | | 100% Foil | 22 AWG (7x30) Stranded TC | Polyethylene Rod | PVC, 0.184" (4.67 mm) | | |
| Overall Mechanical Specifications | | | | | | | | | | |
| Part # | # of Power | Power Color Code | # of Audio | Audio Color Code | Shield | Drain | OD | Master Jacket (Type, Color) | UL Type | Weight |
| PA2T | 1 x 3 Conductor | Black | 2 Pair | Red and White | 100% Foil | 16 AWG (19x29) Stranded TC | 0.645" (16.4 mm) | Flexible PVC, Black | AWM 2464 | 206 lbs/Mft (307 kg/km) |
| Power Electrical Specifications | | | | | | | | | | |
| Capacitance | | | | | Conductor DCR | | | Drain DCR | | |
| 60 pF/ft between conductors, 108 pF/ft between one conductor and other tied to shield | | | | | 1.58 Ω/Mft | | | 4.31 Ω/Mft | | |
| Audio Electrical Specifications | | | | | | | | | | |
| Capacitance | | | | | Impedance | | Conductor DCR | | Drain DCR | |
| 15 pF/ft between conductors, 27 pF/ft between one conductor and other tied to shield | | | | | 110 Ω | | 25.6 Ω/Mft | | 15.3 Ω/Mft | |



Other assembly configurations available upon request.



Neutrik and powerCON are registered trademarks of Neutrik AG.



DMX Lighting Control Cable



The Gepco® Brand DLC series lighting control cable is a true DMX cable with an exceptionally durable and flexible construction. The DLC224 and DLC222 meets the USITT standards for DMX512 cable specifications—120 Ω impedance, low capacitance, and double (foil and braid) shield. Unlike conventional cables that are not intended for data transmission, the DLC series offers reliable data transfer through its data-specific design. In addition, the DLC series features all-weather, extra-flexible jacket materials that are tough, abrasion-resistant and remain flexible in hot or cold temperature environments.

Features & Benefits

True DMX512 Construction (DLC224 & DLC222)

Low-Capacitance Data Pairs

Double Shield (Foil & Braid)

Drain Wire for Easy Shield Termination

Color-Coded Conductors for Easy Identification

Meets or Exceeds USITT Standards (DLC224 & DLC222)

One- or Two-Pair Designs Available

Durable, Flexible, All-Weather Jacket

Applications

DMX512 Lighting Control (DLC224)

Remote or Permanent Installation

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductors | Insulation (Type, Wall, Color Code) | Shield | Drain Wire | Jacket | Approx. Weight |
|--|------------|------------------|---------------------------|---|-------------------------|---------------------------|---------------------------------|-----------------------|
| DLC122 | 2 | 0.245" (6.22 mm) | 22 AWG (7x30) Stranded TC | Foam PE, 0.025" (0.635 mm), Black & White | 100% Foil, 90% TC Braid | 22 AWG (7x30) Stranded TC | Flexible Durable PU, Black | 33 lbs/Mft (49 kg/km) |
| <i>DMX Lighting Control Cable: 1 Pair</i> | | | | | | | | |
| DLC222 | 4 | 0.278" (7.06 mm) | 22 AWG (7x30) Stranded TC | Foam PE, 0.025" (0.635 mm), Black & White, Red & Blue | 100% Foil, 90% TC Braid | 22 AWG (7x30) Stranded TC | Flexible Durable PU, Black | 47 lbs/Mft (70 kg/km) |
| <i>DMX512 Lighting Control Cable: 2 Pair</i> | | | | | | | | |
| DLC124 | 2 | 0.241" (6.12 mm) | 24 AWG (7x32) Stranded TC | Foam PE, 0.020" (0.508 mm), Black & White | 100% Foil, 90% TC Braid | 24 AWG (7x32) Stranded TC | Flexible All-Weather TPE, Black | 33 lbs/Mft (49 kg/km) |
| <i>DMX Lighting Control Cable: 1 Pair</i> | | | | | | | | |
| DLC224 | 4 | 0.270" (6.86 mm) | 24 AWG (7x32) Stranded TC | Foam PE, 0.020" (0.508 mm), Black & White, Red & Blue | 100% Foil, 90% TC Braid | 24 AWG (7x32) Stranded TC | Flexible All-Weather TPE, Black | 44 lbs/Mft (66 kg/km) |
| <i>DMX512 Lighting Control Cable: 2 Pair</i> | | | | | | | | |

Electrical Specifications

| Part # | Capacitance | Characteristic Impedance | Cond. DCR | Shield & Drain DCR |
|--------|---|--------------------------|------------|--------------------|
| DLC122 | 10.4 pF/ft Between Conductors 18.7 pF/ft Between One Conductor and Other Tied to Shield | 120 Ω | 14.7 Ω/Mft | 3.2 Ω/Mft |
| DLC222 | 10.4 pF/ft Between Conductors 18.7 pF/ft Between One Conductor and Other Tied to Shield | 120 Ω | 14.7 Ω/Mft | 2.5 Ω/Mft |
| DLC124 | 10.4 pF/ft Between Conductors, 18.7 pF/ft Between One Conductor and Other Tied to Shield | 120 Ω | 23.4 Ω/Mft | 3.8 Ω/Mft |
| DLC224 | 10.4 pF/ft Between Conductors, 18.7 pF/ft Between One Conductor and Other Tied to Shield | 120 Ω | 23.4 Ω/Mft | 2.9 Ω/Mft |

Recommended Pinout for 5-Pin XLR:

Pin 1 - Shield
Pin 2 - Black
Pin 3 - Red
Pin 4 - Blue
Pin 5 - White

Recommended Pinout for 3-Pin XLR:

Pin 1 - Shield
Pin 2 - Black
Pin 3 - White



| GDL | Cable Type | Color | Length |
|-----|--|-----------|---------|
| | | 0 | |
| | 1 = DLC224 2 = DLC124 3 = DLC222 4 = DLC122 | 0 = Black | In Feet |

Connectors

Neutrik® 5-Pin XLRs, (1) Male NC5MX and (1) Female NC5FX

Neutrik® 3-Pin XLRs, (1) Male NC3MX and (1) Female NC3FX

Neutrik is a registered trademarks of Neutrik AG.

Portable Power Cord

Carol® Brand Super Vu-Tron® Entertainment & Stage Lighting Cable

105°C 600 Volt, UL Type SC and CSA Type PPC



Carol® Brand Super Vu-Tron® Cable is designed to deliver power to an entertainment site with the lowest possible electrical loss. It is manufactured for ease of handling, includes a thermoset jacket for added durability and has 30 AWG Class K stranding for maximum flexibility.

Specifications

| Part # | AWG Size | Conductor Stranding | Nominal OD | Current Amps ¹ | Approx. Net Weight lbs/Mft | Std. Ctn. |
|--------|----------|---------------------|-------------------|---------------------------|----------------------------|-----------|
| 01109* | 8 | 168/30 | 0.385" (9.78 mm) | 80 | 110 | 1000' |
| 01108 | 6 | 259/30 | 0.420" (10.67 mm) | 105 | 152 | 1000' |
| 01107 | 4 | 416/30 | 0.475" (12.07 mm) | 140 | 215 | 1000' |
| 01106 | 2 | 655/30 | 0.520" (13.21 mm) | 190 | 296 | 1000' |
| 01105 | 1 | 827/30 | 0.575" (14.61 mm) | 220 | 360 | 1000' |
| 01104 | 1/0 | 1042/30 | 0.600" (15.24 mm) | 260 | 424 | 1000' |
| 01103 | 2/0 | 1316/30 | 0.645" (16.38 mm) | 300 | 513 | 1000' |
| 01102* | 3/0 | 1660/30 | 0.715" (18.16 mm) | 350 | 644 | 1000' |
| 01101 | 4/0 | 2062/30 | 0.765" (19.43 mm) | 405 | 824 | 1000' |

(1) NEC Table 400.5(A)(2)

* Non-stock item; minimum quantity purchase required.

⁽²⁾ Actual shipping weight may vary.

Features

- Water- and Sunlight-Resistant
- Designed to Withstand Severe Environmental Conditions
- Withstands Exposure to Oil, Acids, Alkalies, Heat, Flame, Moisture and Chemicals
- Meets or Exceeds Flame Test Requirements of CSA and UL

Applications

Portable Power Systems
Entertainment Industry Activities Such as Theater, Television, Nightclubs, Motion Pictures, Mobile Communication Vans, Spotlights, Sound Systems and Other Similar Applications Requiring Temporary Power

Industry Approvals:

- UL Certified
- CSA Certified
- RoHS Compliant

Portable Power Cord

Carol® Brand Super Vu-Tron® Single Conductor Type W Extra-Flex Cable

90°C 2000 Volt, UL and CSA Type W



Carol® Brand Super Vu-Tron® Type W Extra-Flex Cable is the perfect choice for temporary power cable identification and tracking while on location.

Specifications

| Part # | AWG Size | Conductor Stranding | Nominal OD | Current Amps ¹ | Approx. Net Weight lbs/Mft | Std. Ctn. |
|--------|-----------|---------------------|--------------------|---------------------------|----------------------------|-----------|
| 80611* | 8 | 168/30 | 0.440" (11.180 mm) | 80 | 149 | 1000' |
| 80621 | 6 | 259/30 | 0.530" (13.460 mm) | 105 | 205 | 1000' |
| 80631 | 4 | 416/30 | 0.585" (14.860 mm) | 140 | 264 | 1000' |
| 80641 | 2 | 655/30 | 0.650" (16.510 mm) | 190 | 370 | 1000' |
| 80651 | 1 | 827/30 | 0.730" (18.540 mm) | 220 | 479 | 1000' |
| 80661* | 1/0 | 1042/30 | 0.750" (19.050 mm) | 260 | 535 | 1000' |
| 80671* | 2/0 | 1316/30 | 0.825" (20.960 mm) | 300 | 653 | 1000' |
| 80681* | 3/0 | 1660/30 | 0.855" (21.720 mm) | 350 | 755 | 1000' |
| 80691 | 4/0 | 2062/30 | 0.980" (24.890 mm) | 405 | 1056 | 1000' |
| 80701* | 250 kcmil | 2496/30 | 1.020" (25.908 mm) | 455 | 1150 | 1000' |

(1) Ampacities based on 90°C conductor and 30°C ambient temperature, based on Table 310-17 and Table 400.5(A)(2) in the National Electrical Code for single conductor cables.

* Non-stock item; minimum quantity purchase required.

⁽²⁾ Actual shipping weight may vary.

Features

- Vivid Colors & Custom Print Legends Available
- Water- and Sunlight-Resistant
- Ultra-Durable, Superior Flex Design for Long Life and to Withstand Severe Environmental Conditions
- Withstands Exposure to Oil, Acids, Alkalies, Heat, Flame, Moisture and Chemicals
- Meets or Exceeds Flame Test Requirements of MSHA, CSA and UL

Applications

Portable Power Systems
Entertainment Industry Activities Such as Theater, Television, Nightclubs, Motion Pictures, Mobile Communication Vans, Spotlights, Sound Systems and Other Similar Applications Requiring Temporary Power
Permanent Wiring of 2000 Volt Power Supplies, Hoists, Cranes and Other Applications

Industry Approvals:

- UL Type W
- CSA Type W
- MSHA Approved
- RoHS Compliant

Portable Power Cord

Carol® Brand Super Vu-Tron® Supreme Types SJOOW/SOOW Cord

105°C 300 and 600 Volt, UL/CSA Portable Cord



When you require superior portable power cable for the best quality performance, select Carol® Brand Super Vu-Tron® Supreme Types SJOOW and SOOW Cord. General Cable manufactures this with all the features and benefits you demand and expect for extreme entertainment applications and venues.

Specifications

| Part # | # of Cond. | AWG Size | Conductor Stranding | Nominal OD | Current Amps ¹ | Approx. Net Weight lbs/Mft | Std. Ctn. |
|---------------------------------------|------------|----------|---------------------|-------------------|---------------------------|----------------------------|-------------------|
| TYPE SJOOW - 300 VOLT - UL/CSA | | | | | | | |
| 02601 | 2 | 18 | 41/34 | 0.310" (7.87 mm) | 10 | 60 | 1000 ² |
| 02602 | 3 | 18 | 41/34 | 0.320" (8.13 mm) | 10 | 70 | 1000 ² |
| 02603 | 4 | 18 | 41/34 | 0.345" (8.76 mm) | 7 | 85 | 250 ² |
| 02604 | 2 | 16 | 65/34 | 0.315" (8.00 mm) | 13 | 67 | 1000 ² |
| 02605 | 3 | 16 | 65/34 | 0.335" (8.51 mm) | 13 | 83 | 250 ² |
| 02606 | 4 | 16 | 65/34 | 0.370" (9.40 mm) | 10 | 100 | 250 ² |
| 02607 | 2 | 14 | 105/34 | 0.370" (9.40 mm) | 18 | 90 | 250 ² |
| 02608 | 3 | 14 | 105/34 | 0.375" (9.53 mm) | 18 | 114 | 250 ² |
| 02609 | 4 | 14 | 105/34 | 0.405" (10.29 mm) | 15 | 132 | 250 ² |
| TYPE SOOW - 600 VOLT - UL/CSA | | | | | | | |
| 02631* | 2 | 18 | 41/34 | 0.365" (9.27 mm) | 10 | 75 | 250 ² |
| 02632 | 3 | 18 | 41/34 | 0.375" (9.53 mm) | 10 | 84 | 250 ² |
| 02633* | 4 | 18 | 41/34 | 0.400" (10.16 mm) | 7 | 110 | 250 ² |
| 02634 | 2 | 16 | 65/34 | 0.370" (9.40 mm) | 13 | 86 | 250 ² |
| 02635 | 3 | 16 | 65/34 | 0.395" (10.03 mm) | 13 | 105 | 250 ² |
| 02636 | 4 | 16 | 65/34 | 0.425" (10.80 mm) | 10 | 127 | 250 ² |
| 02621 | 5 | 16 | 65/34 | 0.515" (13.08 mm) | 8 | 181 | 250 ² |
| 02637* | 2 | 14 | 105/34 | 0.510" (12.95 mm) | 18 | 155 | 250 ² |
| 02638 | 3 | 14 | 105/34 | 0.525" (13.34 mm) | 18 | 176 | 250 ² |
| 02639 | 4 | 14 | 105/34 | 0.575" (14.61 mm) | 15 | 218 | 250 ² |
| 02622* | 5 | 14 | 105/34 | 0.675" (17.15 mm) | 12 | 285 | 250 ² |
| 02641* | 2 | 12 | 168/34 | 0.590" (14.99 mm) | 25 | 200 | 250 ² |
| 02642 | 3 | 12 | 168/34 | 0.600" (15.24 mm) | 25 | 243 | 250 ² |
| 02643 | 4 | 12 | 168/34 | 0.650" (16.51 mm) | 20 | 295 | 250 ² |
| 02623* | 5 | 12 | 168/34 | 0.730" (18.54 mm) | 16 | 315 | 250 ² |
| 02645 | 3 | 10 | 259/34 | 0.660" (16.76 mm) | 30 | 299 | 250 ² |
| 02646 | 4 | 10 | 259/34 | 0.710" (18.03 mm) | 25 | 413 | 250 ² |
| 02624* | 5 | 10 | 259/34 | 0.770" (19.56 mm) | 20 | 432 | 250 ² |

* Non-stock item; minimum quantity purchase required.

(1) Green conductor for grounding only. Ampacities based on NEC Table 400.5(A)(1).

(2) Actual shipping weight may vary.

Features

Excellent Flexibility in Cold Temperatures

Lasts Longer in Flex Applications (Extra-Flexible Class M Stranding)

Integral Flexfill®

Ozone-, Sunlight (UV)-, Water-* and Weather-Resistant

Withstands Exposure to Oil, Acids, High Heat, Flame, Moisture and Chemicals

Excellent Abrasion and Cut Resistance

Black Jacket; High-Visibility Yellow Jacket Also Available

Tinned Copper Conductors – Corrosion/Oxidation-Resistant

UL Listed and CSA Certified for Indoor and Outdoor Use

*Suitable for Immersion in Water if Properly Sealed and Terminated

Applications

Machine and Power Tools

Motor Leads

Portable Machinery

Cranes

Where Water Immersion is Required

Severe Environment OEM/MRO Applications

Industry Approvals:

- UL Flexible Cord – UL 62
- CSA Flexible Cord – C22.2-49
- MSHA Approved
- OSHA Acceptable
- RoHS Compliant

Portable Power Cord

Carol® Brand HMI Lighting Cable

90°C 600 Volt, UL and CSA Type SOOW



OEM constructions and custom designs are available upon request.

Applications

For Power Supply from Ballast to HMI Lamp Head

Jacketed and Unjacketed Constructions

Available in 7 and 9 Conductors

Portable Power Cord

Carol® Brand Carolprene® Types SJOOW/SOOW Cord

90°C 600 Volt, UL/CSA Portable Cord



Carol® Brand Carolprene® is the solution for standard applications where portable power is required. Carolprene rubber cord meets the standards for commercial and industrial applications and is approved for both indoor and outdoor use.

Specifications

| Part # | # of Cond. | AWG Size | Conductor Stranding | Nominal OD | Current Amps ¹ | Approx. Net Weight lbs/Mft | Std. Ctn. |
|---------------------------------------|------------|----------|---------------------|-------------------|---------------------------|----------------------------|-----------|
| TYPE SJOOW - 300 VOLT - UL/CSA | | | | | | | |
| 01311 | 3 | 18 | 16/30 | 0.305" (7.75 mm) | 10 | 60 | 1000' |
| 01344 | 4 | 18 | 16/30 | 0.330" (8.38 mm) | 7 | 72 | 250' |
| 01342 | 3 | 16 | 26/30 | 0.330" (8.38 mm) | 13 | 72 | 250' |
| 01343 | 4 | 16 | 26/30 | 0.365" (9.27 mm) | 10 | 89 | 250' |
| 01360 | 3 | 14 | 41/30 | 0.370" (9.40 mm) | 18 | 100 | 250' |
| 01364 | 4 | 14 | 41/30 | 0.410" (10.41 mm) | 15 | 128 | 250' |
| 01380 | 3 | 12 | 65/30 | 0.430" (10.92 mm) | 25 | 136 | 250' |
| 01381 | 4 | 12 | 65/30 | 0.475" (12.07 mm) | 20 | 177 | 250' |
| 01383 | 3 | 10 | 104/30 | 0.580" (14.73 mm) | 30 | 236 | 250' |
| 01384 | 4 | 10 | 104/30 | 0.655" (16.64 mm) | 25 | 296 | 250' |
| TYPE SOOW - 600 VOLT - UL/CSA | | | | | | | |
| 02769 | 3 | 18 | 16/30 | 0.365" (9.27 mm) | 10 | 80 | 250' |
| 02770 | 4 | 18 | 16/30 | 0.390" (9.91 mm) | 7 | 94 | 250' |
| 02765 | 3 | 16 | 26/30 | 0.390" (9.91 mm) | 13 | 94 | 250' |
| 02766 | 4 | 16 | 26/30 | 0.420" (10.67 mm) | 10 | 114 | 250' |
| 02762 | 3 | 14 | 41/30 | 0.535" (13.59 mm) | 18 | 171 | 250' |
| 02768 | 4 | 14 | 41/30 | 0.575" (14.61 mm) | 15 | 209 | 250' |
| 02725 | 3 | 12 | 65/30 | 0.595" (15.11 mm) | 25 | 223 | 250' |
| 02726 | 4 | 12 | 65/30 | 0.650" (16.51 mm) | 20 | 276 | 250' |
| 02728 | 3 | 10 | 104/30 | 0.660" (16.76 mm) | 30 | 289 | 250' |
| 02727 | 4 | 10 | 104/30 | 0.715" (18.16 mm) | 25 | 351 | 250' |

Cord furnished with UL and CSA labels.

(1) Green conductor for grounding only. Ampacities based on NEC Table 400.5(A)(1).

^(S) Actual shipping weight may vary.

Features

- Excellent Resistance to Oil and Moisture
- Good Tensile Strength, Elongation and Aging Characteristics
- High Flexibility
- Ozone-, Sunlight (UV)-, Water-* and Weather-Resistant
- Excellent Abrasion Resistance
- Black Jacket; High-Visibility Yellow Jacket Also Available

UL Listed and CSA Certified for Indoor and Outdoor use

*Suitable for Immersion in Water if Properly Sealed and Terminated

Applications

- Portable Tools, Equipment and Appliances
- Small Motors and Associated Machinery
- OEM/MRO Applications
- OSHA VPP Safety
- Construction Site Power

Industry Approvals:

- UL Flexible Cord – UL 62
- CSA Flexible Cord – C22.2-49
- MSHA Approved
- OSHA Acceptable
- RoHS Compliant

Portable Power Cord

Carol® Brand Lighting Cable for Socapex* Connector Applications

105°C 600 Volt, 12 and 14 AWG, 14 or 19 Conductor, UL and CSA AWM



OEM constructions and custom designs are available upon request.

*SOCAPEX is a trademark of Amphenol Corporation.

Industry Approvals:

- UL AWM Style 4431 (Rubber)
- UL AWM Style 2586 (PVC)
- UL AWM Style 20328 (TPE)
- CSA AWM I/II A/B
- RoHS Compliant

Features

- Excellent Resistance to Oil and Moisture
- High Flexibility
- Ozone-, Sunlight (UV)-, Water- and Weather-Resistant
- Withstands Exposure to Oil, Acids, High Heat, Flame, Moisture and Chemicals
- Excellent Abrasion and Cust Resistance
- UL Recognized and CSA Certified for Indoor and Outdoor Use

Applications

- Stage Lighting Cable
- For Portable Use or Remote Environments
- Compatible with All Industry Standard Connectors; Primary Applications are Stage Lighting and Audio (PA Systems/Amplifiers)

SPECIALTY CABLES

| Page | Water-Resistant | ABS/Shipboard | LSZH |
|------|-----------------|---------------|------|
| 116 | • | | |
| 117 | • | | |
| 118 | • | | |
| 119 | • | | |
| 120 | • | | |
| 121 | • | | |
| 122 | • | | |
| 123 | | • | • |
| 124 | | • | • |
| 125 | | • | • |
| 126 | | • | • |
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| 132 | | | • |
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In This Section:

- HydroBloc™ Multi-Pair Individually Shielded Cables
- HydroBloc™ Shielded & Unshielded Cables
- HydroBloc™ Multi-Conductor Shielded Cables
- HydroBloc™ Multi-Conductor Unshielded Cables
- HydroBloc™ FPL or PLTC Shielded Cables
- HydroBloc™ FPL or PLTC Unshielded Cables
- HydroBloc™ Coaxial Cables
- ABS Data and Power Cable
- ABS 22 AWG Audio and Control Cable with Individually Shielded Pairs
- ABS Unshielded Speaker and Control Cable
- ABS High-Definition Coax
- ABS Broadband & Antenna Coax
- ABS Category 6 Network
- ABS Category 5e Network
- LSZH Analog Audio Multi-Pair: 24 AWG
- LSZH Digital Audio Multi-Pair: 24 AWG
- LSZH Analog Audio Single-Pair: 22 AWG
- LSZH Digital Audio Single-Pair: 24 & 26 AWG
- LSZH High-Definition SDI Coax

SPECIALTY CABLES FOR WET LOCATIONS AND MARKETS REQUIRING LOW-SMOKE, ZERO-HALOGEN



Water-Blocked Constructions

The advanced water-blocked construction of Gepco® Brand HydroBloc™ cables utilizes advanced two-ply water-blocking tape and water-swellaible fillers to prevent transverse and longitudinal water ingress.

Application-Specific Jackets

Jacket compounds are specified for each cable type based upon the application. The jackets on Gepco Brand HydroBloc cables offer sunlight and moisture resistance, while the low-smoke, zero-halogen jackets on Shipboard cables provide flame resistance, low-smoke release and reduced toxicity.

TactiCel™ Strong Cell Technology Dielectric

Gepco Brand HydroBloc and Shipboard video cables use TactiCel, a proprietary gas-injection process that blends nitrogen and plastic polymers to produce a dielectric that reduces the high-frequency attenuation, while maintaining uniform cell structure, low return loss and exceptional crush resistance.

Precision Pair Twisting & Balancing

The frequency and consistency of the pair twisting determines the noise rejection of audio cables. Gepco balanced pairs are twisted to a tight and uniform lay to maximize common-mode noise rejection.

Low-Loss, Data-Grade Dielectric

Data transmission requires exceptional bandwidth compared to conventional cable types. To achieve the required bandwidth and impedance characteristics, Gepco® Brand data cables utilize only low-loss, data-grade nitrogen/polymer, polyethylene, or PVC dielectrics.

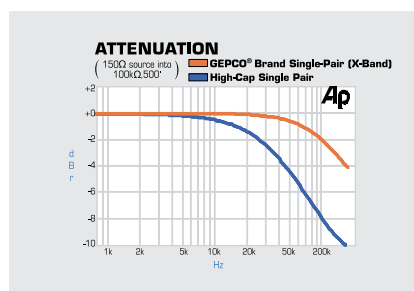
High-Purity Copper

Most coax cable conductors are made from corrosion-resistant tinned copper or 99.999% oxygen-free copper. These conductor types are easy to solder and maximize conductivity.

Electrical Characteristics & Specifications

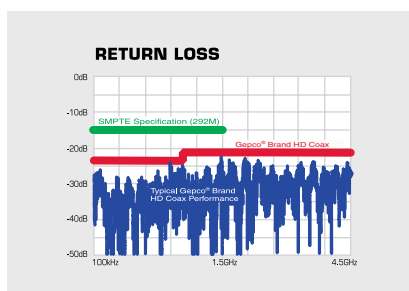
Bandwidth & Low Attenuation

The low-loss dielectric compounds and conductors minimize loss. Compared to other types, Gepco audio cables have less attenuation and greater bandwidth.



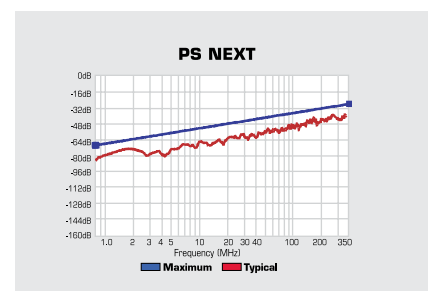
Meets or Exceeds Standards & 100% Sweep Tested

HD coax meets/exceeds SMPTE 424, 292 or 259 standards for digital video cable including specifications for return loss, impedance, attenuation and bandwidth performance.



Tested & Verified

All reels are 100% tested and verified to ensure consistent and reliable performance in every application. Category 5e and 6 cables are ETL verified to ensure compliance with all ANSI/TIA 568-C.2 performance standards.



WATER-RESISTANT

HydroBloc™ Multi-Pair Individually Shielded Cables



Ideal for general purpose data or machine control applications, the Gepco® Brand HydroBloc™ HBSP series features multiple shielded twisted-pairs under a single round jacket. Each pair is individually shielded and is easy to terminate. With advanced water-blocked construction, the HydroBloc line utilizes a two-ply water-blocking tape and water-swellaable fillers to prevent transverse and longitudinal water ingress.

Features & Benefits

- Advanced Water-Blocked Construction
- Sunlight- and Moisture-Resistant Jacket
- Cables Comply with TIA-455-82-B Water Penetration Test
- Ripcord for Ease of Stripping Jacket
- Individual Pair Shields
- UL Rated

Applications

- In Wet Locations Inside Conduit
- Indoor/Outdoor Use
- Data or Multi-Pair Audio
- Communications & Power-Limited Circuits

Mechanical Specifications (Series)

| Conductors | Insulation | Pair Shield | Pair Drain | Master Jacket | UL Type |
|------------------------------|------------------------|-------------|------------------------------|---------------|---------|
| 22 AWG (7x30) Stranded BC | PVC, 0.010" (0.254 mm) | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Gray | CM/CL3 |

Mechanical Specifications (Individual)

| Part Number | # of Pairs | Color Code | Nominal OD | Approx. Weight |
|-------------|------------|--|-------------------|-------------------------|
| HBSP222 | 2 | Black/Red & Red, Black/White & White | 0.355" (9.02 mm) | 44 lbs/Mft (65 kg/km) |
| HBSP224 | 4 | Black/Red & Red, Black/White & White, Black/Green & Green, Black/Blue & Blue | 0.414" (10.52 mm) | 79 lbs/Mft (118 kg/km) |
| HBSP226 | 6 | Black/Red & Red, Black/White & White, Black/Green & Green, Black/Blue & Blue, Black/Yellow & Yellow, Black/Brown & Brown | 0.505" (12.83 mm) | 101 lbs/Mft (150 kg/km) |

Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR |
|---|------------|------------|
| 50 pF/ft Between Conductors, 91 pF/ft Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft | 23.8 Ω/Mft |

WATER-RESISTANT

HydroBloc™ Shielded & Unshielded Cables



The Gepco® Brand HydroBloc™ shielded/unshielded speaker and control cables are ideal for permanent installation in wet locations. The conductors consist of stranded, bare copper conductors that are insulated with a PVC insulation compound. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. Gepco Brand shielded and unshielded speaker and control cables are available in 20 and 22 AWG. With advanced water-blocked construction, the HydroBloc line utilizes a two-ply water-blocking tape and water-swallowable fillers to prevent transverse and longitudinal water ingress.

Features & Benefits

- Advanced Water-Blocked Construction
- Sunlight- and Moisture-Resistant Jacket
- Cables Comply with TIA-455-82-B Water Penetration Test
- Ripcord for Ease of Stripping Jacket
- Bare Copper Conductors
- Superior PVC Insulation
- 20 and 22 AWG Versions
- UL Rated

Applications

- In Wet Locations Inside Conduit
- Indoor/Outdoor Use
- Speaker Interconnections
- General Purpose Audio
- Communications & Power-Limited Circuits

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation/Color Code | Shield | Drain Wire | Jacket (Type, Colors) | UL Type | Approx. Weight |
|---------|---------------------------------|---------------------|------------------------------|---|--------------|------------------------------|-----------------------|---------|--------------------------|
| HBS2230 | 3 (2 Shielded, 1 Unshielded) | 0.235" (5.97 mm) | 22 AWG Solid BC | PVC, 0.010" (0.254 mm)/ Black, Red, Green | 100% Foil | 24 AWG Solid TC | PVC, Gray | CM/CL3 | 25 lbs/Mft (37 kg/km) |
| | | | | | | | | | |
| HBS223 | 3 (2 Shielded, 1 Unshielded) | 0.217" (5.51 mm) | 22 AWG (7x30) Stranded BC | PVC, 0.010" (0.254 mm)/ Black, Red, Green | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Gray | CM/CL3 | 25 lbs/Mft (37 kg/km) |
| | | | | | | | | | |
| HBS2240 | 4 (2 Shielded, 2 Unshielded) | 0.237" (6.02 mm) | 22 AWG Solid BC | PVC, 0.010" (0.254 mm)/ Black, Red, Green, White | 100% Foil | 24 AWG Solid TC | PVC, Gray | CM/CL3 | 29 lbs/Mft (43 kg/km) |
| | | | | | | | | | |
| HBS224 | 4 (2 Shielded, 2 Unshielded) | 0.250" (6.35 mm) | 22 AWG (7x30) Stranded BC | PVC, 0.010" (0.254 mm)/ Black, Red, Green, White | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Gray | CM/CL3 | 33 lbs/Mft (48 kg/km) |
| | | | | | | | | | |
| HBS203 | 3 (2 Shielded, 1 Unshielded) | 0.271" (6.88 mm) | 20 AWG (7x28) Stranded BC | PVC, 0.010" (0.254 mm)/ Black, Red, Green | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Gray | CM/CL3 | 33 lbs/Mft (49 kg/km) |
| | | | | | | | | | |
| HBS204 | 4 (2 Shielded, 2 Unshielded) | 0.273" (6.93 mm) | 20 AWG (7x28) Stranded BC | PVC, 0.010" (0.254 mm)/ Black, Red, Green, White | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Gray | CM/CL3 | 40 lbs/Mft (60 kg/km) |
| | | | | | | | | | |

Electrical Specifications

| Part # | Cond. DCR | Capacitance |
|---------|------------|--|
| HBS2230 | 16.2 Ω/Mft | 50 pF/ft Between Conductors, 89 pF/ft Between One Conductor and Others Tied to Shield |
| HBS223 | 15.3 Ω/Mft | 55 pF/ft Between Conductors, 99 pF/ft Between One Conductor and Others Tied to Shield |
| HBS2240 | 16.5 Ω/Mft | 50 pF/ft Between Conductors, 89 pF/ft Between One Conductor and Others Tied to Shield |
| HBS224 | 15.3 Ω/Mft | 55 pF/ft Between Conductors, 99 pF/ft Between One Conductor and Others Tied to Shield |
| HBS203 | 10.1 Ω/Mft | 61 pF/ft Between Conductors, 109 pF/ft Between One Conductor and Others Tied to Shield |
| HBS204 | 10.1 Ω/Mft | 61 pF/ft Between Conductors, 109 pF/ft Between One Conductor and Others Tied to Shield |

WATER-RESISTANT

HydroBloc™ Multi-Conductor Shielded Cables



The Gepco® Brand HydroBloc™ multi-conductor shielded speaker and control cables are ideal for permanent installation in wet locations. The conductors consist of stranded or solid bare copper conductors that are insulated with a PVC insulation compound. For added noise rejection and suppression, the conductors are shielded with a durable 100% foil/Mylar® and tinned copper drain wire. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. Gepco Brand shielded speaker and control cables are available in 18 through 22 AWG. With advanced water-blocked construction, the HydroBloc line utilizes a two-ply water-blocking tape and water-swellable fillers to prevent transverse and longitudinal water ingress.

Features & Benefits

- Advanced Water-Blocked Construction
- Sunlight- and Moisture-Resistant Jacket
- Cables Comply with TIA-455-82-B Water Penetration Test
- Ripcord for Ease of Stripping Jacket
- Bare Copper Conductors
- Superior PVC Insulation
- Foil Shield with Drain Wire
- 18 Through 22 AWG Versions
- UL Rated

Applications

- In Wet Locations Inside Conduit
- Indoor/Outdoor Use
- Speaker Interconnections
- General Purpose Audio
- Communications & Power-Limited Circuits

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation/Color Code | Shield | Drain Wire | Jacket (Type, Colors) | UL Type | Approx. Weight |
|---------|------------|------------------|---|---|-----------|---------------------------|-----------------------|---------|------------------------|
| HBS2220 | 2 | 0.192" (5.00 mm) | 22 AWG Solid BC | PVC, 0.010" (0.254 mm)/ Black, Red | 100% Foil | 24 AWG Solid TC | PVC, Gray | CM/CL3 | 22 lbs/Mft (33 kg/km) |
| | | | 22 AWG Solid x 2 HydroBloc™ CM/CL3 Water-Resistant Cable: Shielded | | | | | | |
| HBS222 | 2 | 0.202" (5.13 mm) | 22 AWG (7x30) Stranded BC | PVC, 0.010" (0.254 mm)/ Black, Red | 100% Foil | 24 AWG (7x32) Stranded TC | PVC, Gray | CM/CL3 | 26 lbs/Mft (40 kg/km) |
| | | | 22 AWG Stranded x 2 HydroBloc™ CM/CL3 Water-Resistant Cable: Shielded | | | | | | |
| HBS202 | 2 | 0.220" (5.59 mm) | 20 AWG (7x28) Stranded BC | PVC, 0.010" (0.254 mm)/ Black, Red | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Gray | CM/CL3 | 27 lbs/Mft (40 kg/km) |
| | | | 20 AWG Stranded x 2 HydroBloc™ CM/CL3 Water-Resistant Cable: Shielded | | | | | | |
| HBS182 | 2 | 0.236" (5.99 mm) | 18 AWG (7x26) Stranded BC | PVC, 0.010" (0.254 mm)/ Black, Red | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Gray | CM/CL3 | 33 lbs/Mft (50 kg/km) |
| | | | 18 AWG Stranded x 2 HydroBloc™ CM/CL3 Water-Resistant Cable: Shielded | | | | | | |
| HBS186 | 6 | 0.302" (7.67 mm) | 18 AWG (7x26) Stranded BC | PVC, 0.010" (0.254 mm)/ Black, Red, White, Green, Brown, Blue | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Gray | CM/CL3 | 67 lbs/Mft (100 kg/km) |
| | | | 18 AWG Stranded x 4 HydroBloc™ CM/CL3 Water-Resistant Cable: Shielded | | | | | | |

Electrical Specifications

| Part # | Cond. DCR | Capacitance |
|---------------|------------|--|
| HBS2220 | 16.5 Ω/Mft | 49 pF/ft Between Conductors, 89 pF/ft Between One Conductor and Other Tied to Shield |
| HBS222 | 15.3 Ω/Mft | 55 pF/ft Between Conductors, 99 pF/ft Between One Conductor and Other Tied to Shield |
| HBS202 | 10.1 Ω/Mft | 61 pF/ft Between Conductors, 109 pF/ft Between One Conductor and Other Tied to Shield |
| HBS182/HBS186 | 6.4 Ω/Mft | 70 pF/ft Between Conductors, 126 pF/ft Between One Conductor and Others Tied to Shield |

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WATER-RESISTANT

HydroBloc™ Multi-Conductor Unshielded Cables



The Gepco® Brand HydroBloc™ multi-conductor unshielded speaker and control cables are ideal for permanent installation in wet locations. The conductors consist of stranded or solid bare copper conductors that are insulated with a PVC insulation compound. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. Gepco Brand unshielded speaker and control cables are available in 16 through 22 AWG. With advanced water-blocked construction, the HydroBloc line utilizes a two-ply water-blocking tape and water-swellaible fillers to prevent transverse and longitudinal water ingress.

Features & Benefits

- Advanced Water-Blocked Construction
- Sunlight- and Moisture-Resistant Jacket
- Cables Comply with TIA-455-82-B Water Penetration Test
- Ripcord for Ease of Stripping Jacket
- Bare Copper Conductors
- Superior PVC Insulation
- 16 Through 22 AWG Versions
- UL Rated

Applications

- In Wet Locations Inside Conduit
- Indoor/Outdoor Use
- Speaker Interconnections
- General Purpose Audio
- Communications & Power-Limited Circuits

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation/Color Code | Jacket (Type, Colors) | UL Type | Approx. Weight |
|---------|------------|------------------|--|--|-----------------------|---------|-----------------------|
| HBU2240 | 4 | 0.191" (4.85 mm) | 22 AWG Solid BC | PVC, 0.010" (0.254 mm)/ Black, Red, Green, White | PVC, Gray | CM/CL3 | 26 lbs/Mft (39 kg/km) |
| | | | <i>22 AWG Solid x 4 HydroBloc™ CM/CL3 Water-Resistant Cable: Unshielded</i> | | | | |
| HBU182 | 2 | 0.211" (5.36 mm) | 18 AWG (7x26) Stranded BC | PVC, 0.010" (0.254 mm)/ Black, Red | PVC, Gray | CM/CL3 | 29 lbs/Mft (44 kg/km) |
| | | | <i>18 AWG Stranded x 2 HydroBloc™ CM/CL3 Water-Resistant Cable: Unshielded</i> | | | | |
| HBU162 | 2 | 0.228" (5.79 mm) | 16 AWG (19x29) Stranded BC | PVC, 0.010" (0.254 mm)/ Black, Red | PVC, Gray | CM/CL3 | 33 lbs/Mft (50 kg/km) |
| | | | <i>16 AWG Stranded x 2 HydroBloc™ CM/CL3 Water-Resistant Cable: Unshielded</i> | | | | |

Electrical Specifications

| Part # | Cond. DCR | Capacitance |
|---------|------------|-------------|
| HBU2240 | 16.5 Ω/Mft | 49 pF/ft |
| HBU182 | 6.4 Ω/Mft | 40 pF/ft |
| HBS162 | 4.5 Ω/Mft | 43 pF/ft |

WATER-RESISTANT

HydroBloc™ FPL or PLTC Shielded Cables



The Gepco® Brand HydroBloc™ multi-conductor shielded speaker and control cables are ideal for permanent installation in wet locations. The conductive elements consist of stranded, bare copper conductors that are insulated with a PVC insulation compound and nylon covering. For added noise rejection and suppression, the conductors are shielded with a durable 100% foil/Mylar® and tinned copper drain wire. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. These cables are available in 12 through 18 AWG. With advanced water-blocked construction, the HydroBloc line utilizes a two-ply water-blocking tape and water-swallowable fillers to prevent transverse and longitudinal water ingress.

Features & Benefits

- Advanced Water-Blocked Construction
- Sunlight- and Moisture-Resistant Jacket
- Ripcord for Ease of Stripping Jacket
- Cables Comply with TIA-455-82-B Water Penetration Test
- Bare Copper Conductors
- Superior PVC Insulation & Nylon Covering
- Foil Shield with Drain Wire
- 12 Through 18 AWG Versions
- UL Rated

Applications

- In Wet Locations Inside Conduit
- Indoor/Outdoor Use
- Speaker Interconnections
- General Purpose Audio
- Control
- Power-Limited Circuits
- Power-Limited Fire Alarm Circuits
- Power-Limited Tray Cable PLTC
- Direct Burial

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation/Color Code | Shield | Drain Wire | Jacket (Type, Colors) | UL Type | Approx. Weight |
|----------------|--|------------------|----------------------------|--|-----------|----------------------------|-----------------------|----------|-------------------------|
| HBS184T | 4 | 0.355" (9.02 mm) | 18 AWG (7x26) Stranded BC | PVC & Nylon, 0.021" (0.53 mm)/ Black, Red, Brown, Blue | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Black | FPL/PLTC | 71 lbs/Mft (105 kg/km) |
| | 18 AWG x 4 HydroBloc™ FPL/PLTC Water-Resistant Cable: Shielded | | | | | | | | |
| HBS182T | 2 | 0.310" (9.87 mm) | 18 AWG (7x26) Stranded BC | PVC & Nylon, 0.021" (0.53 mm)/ Black, Red | 100% Foil | 22 AWG (7x30) Stranded TC | PVC, Black | FPL/PLTC | 46 lbs/Mft (68 kg/km) |
| | 18 AWG x 2 HydroBloc™ FPL/PLTC Water-Resistant Cable: Shielded | | | | | | | | |
| HBS164T | 4 | 0.392" (9.96 mm) | 16 AWG (7x24) Stranded BC | PVC & Nylon, 0.021" (0.53 mm)/ Black, Red, Brown, Blue | 100% Foil | 20 AWG (7x28) Stranded TC | PVC, Black | FPL/PLTC | 82 lbs/Mft (123 kg/km) |
| | 16 AWG x 4 HydroBloc™ FPL/PLTC Water-Resistant Cable: Shielded | | | | | | | | |
| HBS162T | 2 | 0.320" (8.13 mm) | 16 AWG (7x24) Stranded BC | PVC & Nylon, 0.021" (0.533 mm)/ Black, Red | 100% Foil | 20 AWG (7x28) Stranded TC | PVC, Black | FPL/PLTC | 60 lbs/Mft (89 kg/km) |
| | 16 AWG x 2 HydroBloc™ FPL/PLTC Water-Resistant Cable: Shielded | | | | | | | | |
| HBS142T | 2 | 0.347" (8.81 mm) | 14 AWG (19x27) Stranded BC | PVC & Nylon, 0.021" (0.53 mm)/ Black, Red | 100% Foil | 16 AWG (19x29) Stranded TC | PVC, Black | FPL/PLTC | 76 lbs/Mft (113 kg/km) |
| | 14 AWG x 2 HydroBloc™ FPL/PLTC Water-Resistant Cable: Shielded | | | | | | | | |
| HBS122T | 2 | 0.391" (9.93 mm) | 12 AWG (19x25) Stranded BC | PVC & Nylon, 0.021" (0.533 mm)/ Black, Red | 100% Foil | 14 AWG (19x27) Stranded TC | PVC, Black | FPL/PLTC | 104 lbs/Mft (155 kg/km) |
| | 12 AWG x 2 HydroBloc™ FPL/PLTC Water-Resistant Cable: Shielded | | | | | | | | |

Electrical Specifications

| Part # | Cond. DCR | Capacitance |
|------------------|-----------|---|
| HBS184T, HBS182T | 6.4 Ω/Mft | 37 pF/ft Between Conductors, 68 pF/ft Between One Conductor and Other Tied to Shield |
| HBS164T, HBS162T | 4.0 Ω/Mft | 43 pF/ft Between Conductors, 77 pF/ft Between One Conductor and Other Tied to Shield |
| HBS142T | 2.5 Ω/Mft | 50 pF/ft Between Conductors, 90 pF/ft Between One Conductor and Other Tied to Shield |
| HBS122T | 1.6 Ω/Mft | 58 pF/ft Between Conductors, 105 pF/ft Between One Conductor and Other Tied to Shield |

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WATER-RESISTANT

HydroBloc™ FPL or PLTC Unshielded Cables



The Gepco® Brand HydroBloc™ multi-conductor unshielded speaker and control cables are ideal for permanent installation in wet locations. The conductors consist of stranded, bare copper conductors that are insulated with a PVC insulation compound. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. These cables are available in 12 through 18 AWG. With advanced water-blocked construction, the HydroBloc line utilizes a two-ply water-blocking tape and water-swellaible fillers to prevent transverse and longitudinal water ingress.

Features & Benefits

- Advanced Water-Blocked Construction
- Sunlight- and Moisture-Resistant Jacket
- Ripcord for Ease of Stripping Jacket
- Cables Comply with TIA-455-82-B Water Penetration Test
- Bare Copper Conductors
- Superior PVC Insulation & Nylon Covering
- 12 Through 18 AWG Versions
- UL Rated

Applications

- In Wet Locations Inside Conduit
- Indoor/Outdoor Use
- Low Voltage Industrial Process Control
- Power-Limited Circuits
- Power-Limited Fire Alarm Circuits
- Power-Limited Tray Cable PLTC
- Speaker Level Audio
- Direct Burial

| Mechanical Specifications | | | | | | | |
|---------------------------|------------|---------------------|-------------------------------|--|-----------------------|----------|----------------------------|
| Part # | # of Cond. | Nominal OD | Conductor | Insulation/Color Code | Jacket (Type, Colors) | UL Type | Approx. Weight |
| HBU184T | 4 | 0.323" (8.20 mm) | 18 AWG (7x26) Stranded BC | PVC & Nylon, 0.021" (0.533 mm)/ Black, Red, Brown, Blue | PVC, Black | FPL/PLTC | 64 lbs/Mft (95 kg/km) |
| | | | | | | | |
| HBU182T* | 2 | 0.277" (7.04 mm) | 18 AWG (7x26) Stranded BC | PVC & Nylon, 0.021" (0.533 mm)/ Black, Red | PVC, Black | FPL/PLTC | 40 lbs/Mft (59 kg/km) |
| | | | | | | | |
| HBU164T | 4 | 0.350" (8.89 mm) | 16 AWG (7x24) Stranded BC | PVC & Nylon, 0.021" (0.533 mm)/ Black, Red, Brown, Blue | PVC, Black | FPL/PLTC | 76 lbs/Mft (113 kg/km) |
| | | | | | | | |
| HBU162T* | 2 | 0.299" (7.59 mm) | 16 AWG (7x24) Stranded BC | PVC & Nylon, 0.021" (0.533 mm)/ Black, Red | PVC, Black | FPL/PLTC | 52 lbs/Mft (78 kg/km) |
| | | | | | | | |
| HBU144T | 4 | 0.380" (9.65 mm) | 14 AWG (19x27) Stranded BC | PVC & Nylon, 0.021" (0.533 mm)/ Black, Red, Brown, Blue | PVC, Black | FPL/PLTC | 102 lbs/Mft (152 kg/km) |
| | | | | | | | |
| HBU142T* | 2 | 0.324" (8.23 mm) | 14 AWG (19x27) Stranded BC | PVC & Nylon, 0.021" (0.533 mm)/ Black, Red | PVC, Black | FPL/PLTC | 64 lbs/Mft (96 kg/km) |
| | | | | | | | |
| HBU122T* | 2 | 0.369" (9.40 mm) | 12 AWG (19x25) Stranded BC | PVC & Nylon, 0.021" (0.533 mm)/ Black, Red | PVC, Black | FPL/PLTC | 86 lbs/Mft (128 kg/km) |
| | | | | | | | |
| Electrical Specifications | | | | | | | |
| Part # | Cond. DCR | | | Capacitance | | | |
| HBU184T, HBU182T | 6.4 Ω/Mft | | | 25 pF/ft | | | |
| HBU164T, HBU162T | 4.0 Ω/Mft | | | 28 pF/ft | | | |
| HBU144T, HBU142T | 2.5 Ω/Mft | | | 30 pF/ft | | | |
| HBU122T | 1.6 Ω/Mft | | | 34 pF/ft | | | |

*Two (2) conductor constructions will have two PVC rod fillers in the core to help withstand the rigors during operation.

WATER-RESISTANT

HydroBloc™ Coaxial Cables



TactiCel™
Strong Cell Technology

The Gepco® Brand HydroBloc™ high-definition & CATV video coax series for wet locations features a precision center conductor, TactiCel™ gas-injected foam dielectric, excellent crush resistance, and broadband shielding. The gas-injected foam dielectric and precision process control are critical factors in achieving superior electrical performance including faster velocity of propagation, tight impedance tolerance, low attenuation and low structural return loss across the entire 4.5 GHz bandwidth (HD Coax). Conductive elements consist of a precision-drawn solid copper center conductor with 100% foil shield (HD Coax) and 95% braid coverage for complete broadband shielding. The water-blocked construction with a two-ply water-blocking tape prevents transverse and longitudinal water ingress.

Features & Benefits

- Advanced Water-Blocked Construction
- Sunlight- and Moisture-Resistant Jacket
- Cables Comply with TIA-455-82-B Water Penetration Test
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV/1 GHz Bandwidth for CCTV
- High Velocity of Propagation
- 100% Sweep Tested
- Full-Copper Braid Shield

Applications

- In Wet Locations Inside Conduit
- Indoor/Outdoor Use
- High-Definition or Standard Definition Serial Digital Video (HBS201HD)
- High-Resolution Analog Video

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Type, OD) | Shield | Jacket (Type, Colors) | UL Type | Approx. Weight |
|---|------------|------------------|-----------------|--|-------------------------|-----------------------|---------|-----------------------|
| HBS201HD | 1 | 0.242" (6.15 mm) | 20 AWG Solid BC | Gas-Injected Foam PE, 0.142" (3.61 mm) | 95% TC Braid, 100% Foil | PVC, Black | CM/CL2 | 36 lbs/Mft (54 kg/km) |
| 20 AWG HydroBloc™ Water-Resistant HD Coax | | | | | | | | |
| HBS201 | 1 | 0.240" (6.10 mm) | 20 AWG Solid BC | Gas-Injected Foam PE, 0.142" (3.61 mm) | 95% BC Braid | PVC, Black | CM/CL2 | 36 lbs/Mft (54 kg/km) |
| 20 AWG HydroBloc™ Water-Resistant Coax | | | | | | | | |
| HBS181 | 1 | 0.278" (7.06 mm) | 18 AWG Solid BC | Gas-Injected Foam PE, 0.180" (4.57 mm) | 95% BC Braid | PVC, Black | CM/CL2 | 47 lbs/Mft (70 kg/km) |
| 18 AWG HydroBloc™ Water-Resistant Coax | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz) | Capacitance | Cond. DCR per Mft | Shield DCR per Mft | Vel. of Prop. | Nominal Attenuation (dB per 100 ft) | | | | | | | | | | | | |
|----------|-------------|--|-------------|-------------------|--------------------|---------------|-------------------------------------|---------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|---------|
| | | | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| HBS201HD | 75 Ω (+/-2) | >23 dB, >21 dB | 16.3 pF/ft | 10.2 Ω | 3.5 Ω | 83% | 0.28 | 0.53 | 0.86 | 2.05 | 2.71 | 3.80 | 4.38 | 6.40 | 7.57 | 9.29 | 11.5 | 13.5 | 16.5 |
| Part # | Impedance | Return Loss (100 kHz-1 GHz) | Capacitance | Cond. DCR per Mft | Shield DCR per Mft | Vel. of Prop. | Nominal Attenuation (dB per 100 ft) | | | | | | | | | | | | |
| | | | | | | | 1 MHz | 10 MHz | 50 MHz | 100 MHz | 200 MHz | 400 MHz | 700 MHz | 900 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| HBS201 | 75 Ω (+/-2) | >15 dB | 16.2 pF/ft | 10.2 Ω | 3.4 Ω | 83% | 0.23 | 0.78 | 1.79 | 2.56 | 3.70 | 5.34 | 7.10 | 8.01 | 8.51 | — | — | — | — |
| HBS181 | 75 Ω (+/-2) | >15 dB | 16.0 pF/ft | 6.4 Ω | 2.8 Ω | 83% | 0.19 | 0.64 | 1.48 | 2.15 | 3.09 | 4.51 | 6.12 | 7.00 | 7.40 | — | — | — | — |

ABS/SHIPBOARD

ABS Data and Power Cable



The ABS Type approved 18/22CRTSB cable provides the communications network for multimedia controls in a Low-Smoke, Zero-Halogen (LSZH) construction. Its 22 AWG shielded pair construction with high-grade, low-loss dielectric can serve as a communications circuit while the 18 AWG unshielded pair can power low-voltage devices.

Features & Benefits

- Tinned Copper Conductors
- 22 AWG Low-Cap, Shielded Single-Pair
- Low-Loss Foam Dielectric (Data Pair)
- 18 AWG Power Conductors
- LSZH Construction
- UL Rated for CMG-LS

Applications

- Communications
- Low-Voltage Power Bus for Tuners
- Multimedia Control Panels/Devices
- Shipboard and Offshore

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Cond. | Data Insulation (Type, OD, Color) | Data Shield & Drain | Power Conductors | Power Insulation | Overall Jacket | Temp. Rating | UL Type | Approx. Weight |
|-----------------------------|----------------------------|---------------------|------------------------------------|--|--|-------------------------------------|--|---|-------------------|---------|--------------------------|
| 18/22CRTSB | 2 (One Power, One Data) | 0.242" (6.15 mm) | 22 AWG (7x30) Stranded TC | Foam Polyolefin, 0.022" (0.559 mm), Blue & White | 100% Foil with 24 AWG (7x32) Stranded TC | 18 AWG (16x30) Stranded TC | PP, 0.010" (0.254 mm) Red & Black | Flame-Retardant, LSZH Polyolefin, Black | -20°C to +75°C | CMG-LS | 44 lbs/Mft (66 kg/km) |
| ABS/Shipboard Control Cable | | | | | | | | | | | |

Electrical Specifications

| Part # | Data Pair | | | | | Power Pair | |
|------------|-----------|----------------------------------|---------------|------------|-------------------------|----------------------------------|---------------------|
| | Impedance | Capacitance | Conductor DCR | Drain DCR | Velocity of Propagation | Capacitance | Power Conductor DCR |
| 18/22CRTSB | 100 Ω | 15.0 pF/ft Between Conductors | 16.0 Ω/Mft | 23.8 Ω/Mft | 79% | 35.0 pF/ft Between Conductors | 6.7 Ω/Mft |

ABS/SHIPBOARD

ABS 22 AWG Audio and Control Cable with Individually Shielded Pairs



Gepco® Brand 22 AWG single- and multi-pair balanced audio cables, which are Low-Smoke, Zero-Halogen (LSZH) and ABS Type approved, feature stranded tinned-copper conductors that are easy to solder or punch-down. Intended for permanent installation, these products feature a high-grade polypropylene dielectric that is used to minimize high-frequency attenuation. Excellent process control and tight pair twisting achieve superior noise rejection. The 22 AWG conductors offer low DCR, and the foil shield with same gauge drain wire provides low DCR while facilitating quick shield termination. The Gepco Brand 22 AWG single- and multi-pair audio cables are ideal for punch-down, rack wiring and extended-distance runs of mic level signals.

Features & Benefits

- Low Attenuation
- Low Crosstalk (Multi-Pair)
- Easy to Terminate
- Polypropylene Dielectric
- Easy-Strip, Bonded Foil Shield (EZ Versions)
- LSZH Polyolefin Jacket, UV-Resistant
- CMG-LS
- TRU-Mark® Print Legend with Sequential Footage

Applications

- Microphone or Line Level Balanced Analog Audio
- Patchbay, Rack or Console Permanent Installation Wiring
- Ideal for Extended-Distance Runs
- Communication Cables on Shipboard

Mechanical Specifications (Individual)

| Part # | # of Pairs | Nominal OD | Conductors | Insulation (Wall/Color Code) | Shield | Drain Wire | Jacket (Type, Colors) | Temperature Rating | UL Type | Approx. Weight |
|-----------|------------|---------------------|------------------------------|---|--------------------------|---|---|--------------------|---------|--------------------------|
| 61801EZSB | 1 | 0.170" (4.11 mm) | 22 AWG (7x30) Stranded TC | PP, 0.010" (0.25 mm)/ Red & Black | 100% Foil (Bonded) | 22 AWG (7x30) Stranded TC | Flame-Retardant, LSZH Polyolefin, Black | -30°C to +105°C | CMG-LS | 18 lbs/Mft (27 kg/km) |
| | | | | | | | | | | |
| 6600SB | 2 | 0.203" (5.16 mm) | 22 AWG (7x30) Stranded TC | PP, 0.010" (0.25 mm)/ Black & Red, Green & White | 100% Foil (Each Pair) | 24 AWG (7x32) Stranded TC (Common Drain) | Flame-Retardant, LSZH Polyolefin, Black | -30°C to +105°C | CMG-LS | 28 lbs/Mft (41 kg/km) |
| | | | | | | | | | | |
| 6603SB | 3 | 0.280" (7.11 mm) | 22 AWG (7x30) Stranded TC | PP, 0.010" (0.25 mm)/ Black & Red, Black & White, Black & Green | 100% Foil (Each Pair) | 24 AWG (19x34) Stranded TC (Common Drain) | Flame-Retardant, LSZH Polyolefin, Black | -30°C to +105°C | CMG-LS | 47 lbs/Mft (69 kg/km) |
| | | | | | | | | | | |

Electrical Specifications

| Part # | Capacitance | Cond. DCR | Shield DCR |
|-----------|--|------------|------------|
| 61801EZSB | 35 pF/ft Between Conductors, 62 pF/ft Between One Conductor and Other Tied to Shield | 16.0 Ω/Mft | 10.9 Ω/Mft |
| 6600SB | 35 pF/ft Between Conductors, 62 pF/ft Between One Conductor and Other Tied to Shield | 16.0 Ω/Mft | 10.6 Ω/Mft |
| 6603SB | 30 pF/ft Between Conductors, 55 pF/ft Between One Conductor and Other Tied to Shield | 16.0 Ω/Mft | 10.6 Ω/Mft |

ABS/SHIPBOARD

ABS Unshielded Speaker and Control Cable



Gepco® Brand Low-Smoke, Zero-Halogen (LSZH) UL Listed and ABS Type approved unshielded speaker and control cable is for permanent installation in conduit, walls, ceilings or on shipboard. The conductive elements consist of stranded, tinned copper conductors that are insulated with a polypropylene-based insulation compound. The LSZH polyolefin outer jacket is easy to install and pull through conduit.

Features & Benefits

LSZH Construction
 Tinned Copper Conductors
 Polypropylene-Based Insulation
 12 & 14 AWG Versions
 LSZH Polyolefin Jacket, UV-Resistant
 CMG-LS
 TRU-Mark® Print Legend with Sequential Footage

Applications

Speaker Interconnections
 General Purpose Audio
 Control and Communications Circuits on Shipboard

| Mechanical Specifications | | | | | | | | |
|---|------------|------------------|----------------------------|---|---|--------------------|---------|-------------------------|
| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Wall, Color Code) | Jacket (Type, Colors) | Temperature Rating | UL Type | Approx. Weight |
| SSU122SB | 2 | 0.340" (18.6 mm) | 12 AWG (65x30) Stranded TC | PP, 0.011" (0.279 mm)/ Black & Red | Flame-Retardant, LSZH Polyolefin, Black | -20°C to +75°C | CMG-LS | 82 lbs/Mft (121 kg/km) |
| <i>ABS/Shipboard 12 x 2 AWG Speaker and Control Cable</i> | | | | | | | | |
| SSU124SB | 4 | 0.387" (9.8 mm) | 12 AWG (65x30) Stranded TC | PP, 0.011" (0.279 mm)/ Black, Red, White & Green | Flame-Retardant, LSZH Polyolefin, Black | -20°C to +75°C | CMG-LS | 138 lbs/Mft (203 kg/km) |
| <i>ABS/Shipboard 12 x 4 AWG Speaker and Control Cable</i> | | | | | | | | |
| SSU142SB | 2 | 0.300" (7.6 mm) | 14 (41x30) AWG Stranded TC | PP, 0.011" (0.279 mm)/ Black & Red | Flame-Retardant, LSZH Polyolefin, Black | -20°C to +75°C | CMG-LS | 61 lbs/Mft (90 kg/km) |
| <i>ABS/Shipboard 14 x 2 AWG Speaker and Control Cable</i> | | | | | | | | |
| SSU144SB | 4 | 0.340" (8.65 mm) | 14 (41x30) AWG Stranded TC | PVC, 0.011" (0.279 mm)/ Black, Red, White & Green | Flame-Retardant, LSZH Polyolefin, Black | -20°C to +75°C | CMG-LS | 92 lbs/Mft (135 kg/km) |
| <i>ABS/Shipboard 14 x 4 AWG Speaker and Control Cable</i> | | | | | | | | |
| Electrical Specifications | | | | | | | | |
| Part # | Cond. DCR | | | | | | | |
| SSU122SB, SSU124SB | 1.59 Ω/Mft | | | | | | | |
| SSU142SB, SSU144SB | 2.53 Ω/Mft | | | | | | | |

ABS/SHIPBOARD

ABS High-Definition Coax



TactiCel™
Strong Cell Technology

The Low-Smoke, Zero Halogen (LSZH) ABS Type approved, high-definition video coax cables have been engineered to feature a 4.5 GHz bandwidth (for HDTV transmission), a TactiCel™ gas-injected foam dielectric, lower attenuation, excellent crush resistance and easy termination. The gas-injected dielectric and precision process control are critical factors in achieving superior electrical performance including faster velocity of propagation, tight impedance tolerance, low attenuation and low structural return loss across the entire 4.5 GHz bandwidth. Conductors consist of a precision-drawn solid copper center conductor and a 95% braid with 100% foil shield for complete broadband shielding.

Features & Benefits

- Ultra-Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation
- TactiCel Gas-Injected Foam Dielectric
- 100% Sweep Tested
- 95% Braid & 100% Foil Shield
- LSZH Polyolefin Jacket

Applications

- High-Definition or Standard-Definition Serial Digital Video
- High-Resolution Analog Video
- Digital Audio (AES3id, SPDIF or Word Clock)
- Shipboard

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Type, OD) | Shield | Jacket (Type, Colors) | Temperature Rating | UL Type | Approx. Weight |
|---------------------------------|------------|------------------|-----------------|--|-------------------------|---|--------------------|---------|------------------------|
| VHD1100SB | 1 | 0.401" (10.2 mm) | 14 AWG Solid BC | Gas-Injected Foam PE, 0.282" (7.16 mm) | 95% TC Braid, 100% Foil | Flame-Retardant, LSZH Polyolefin, Black | -30°C to +75°C | CMG-LS | 82 lbs/Mft (120 kg/km) |
| Extended-Distance RG 11 HD Coax | | | | | | | | | |
| VSD2001SB | 1 | 0.275" (6.99 mm) | 18 AWG Solid BC | Gas-Injected Foam PE, 0.180" (4.57 mm) | 95% TC Braid, 100% Foil | Flame-Retardant, LSZH Polyolefin, Black | -30°C to +75°C | CMG-LS | 47 lbs/Mft (69 kg/km) |
| Low-Loss RG 6 HD Coax | | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz) | Capacitance | Cond. DCR per Mft | Shield DCR per Mft | Vel. of Prop. | Nominal Attenuation (dB per 100 ft) | | | | | | | | | | | | |
|-----------|-------------|--|-------------|-------------------|--------------------|---------------|-------------------------------------|---------|--------|----------|---------|---------|---------|---------|-------|---------|----------|-------|---------|
| | | | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz |
| VHD1100SB | 75 Ω (+/-2) | >23 dB, >21 dB | 16.2 pF/ft | 2.5 Ω | 1.5 Ω | 84% | 0.14 | 0.28 | 0.43 | 1.02 | 1.40 | 1.92 | 2.25 | 3.30 | 3.86 | 4.73 | 5.80 | 6.72 | 8.75 |
| VSD2001SB | 75 Ω (+/-2) | >23 dB, >21 dB | 16.2 pF/ft | 6.4 Ω | 2.8 Ω | 82% | 0.24 | 0.45 | 0.72 | 1.60 | 2.10 | 2.97 | 3.43 | 4.95 | 5.89 | 7.33 | 9.14 | 10.67 | 13.29 |

ABS/SHIPBOARD

ABS Broadband & Antenna Coax



Gepco® Brand Low-Smoke, Zero Halogen (LSZH) ABS Type approved general purpose coax cable is for use in closed circuit or analog video distribution and impedance matching coax for systems such as thinnet, VSAT or wireless. The cables in this series utilize a low-loss, TactiCel™ gas-injected foam dielectric that is electrically superior to conventional solid types, yet remains highly crush-resistant and helps maintains proper impedance. Composite cable has a Power pair in parallel with the coax to serve as Video/Audio cable

Features & Benefits

- Precision Impedance
- 1 GHz or 3 GHz Bandwidth
- High Velocity of Propagation
- Gas-Injected Foam Polyethylene Dielectric
- 100% Sweep Tested
- Low Attenuation & Return Loss

Applications

- Networking
- Wireless Systems
- VSAT
- CCTV
- Security Cameras
- General Distribution
- Audio/Video
- Shipboard and Offshore

Mechanical Specifications

| Part # | # of Cond. | Nominal OD | Conductor | Insulation (Type, OD) | Shield | Power Pair (Type, Insulation, Colors) | Jacket (Type, Colors) | Temp. Rating | UL Type | Approx. Weight |
|---|-------------------|---|-----------------------------------|--|----------------------------|---|---|----------------|---------|---------------------------|
| V18/2PZSB | 1 Coax 2 Power | 0.275" x 0.186"/0.530" (6.99 mm x 4.72 mm)/ (13.5 mm) | 18 AWG Solid BC | Gas-Injected Foam PE, 0.180" (4.57 mm) | 95% BC Braid | (2) 18 AWG (7x26) Stranded BC, 0.010" (0.25 mm), Polypropylene, Black & Red | Flame-Retardant, LSZH Polyolefin, Black | -30°C to +75°C | CMG-LS | 74 lbs/Mft (109 kg/km) |
| ABS/Shipboard Coax: Siamese with 1 RG 6 18 AWG + 2 Conductor Power 18 AWG | | | | | | | | | | |
| VB1860SB | 1 | 0.274" (6.96 mm) | 18 AWG Copper Clad Steel | Gas-Injected Foam PE, 0.180" (4.57 mm) | 60% AL Braid, 100% Foil | --- | Flame-Retardant, LSZH Polyolefin, Black | -30°C to +75°C | CMG-LS | 34 lbs/Mft (50 kg/km) |
| ABS/Shipboard Coax: RG6 CATV | | | | | | | | | | |
| V5010SB | 1 | .405" (10.29 mm) | 10 AWG Copper Clad Aluminum | Gas-Injected Foam PE, 0.285" (7.24 mm) | 100% Foil 95% TC Braid | --- | Flame-Retardant, LSZH Polyolefin, Black | -30°C to +75°C | CMG-LS | 98 lbs/Mft (144 kg/km) |
| ABS/Shipboard Coax: RF400 RG8 Low Loss 50 Ω Wireless | | | | | | | | | | |

Coax Electrical Specifications

| Part # | Imped. | Return Loss | Capac. | Cond. DCR per Mft | Shield DCR per Mft | Vel. of Prop. | Attenuation (dB per 100 ft) | | | | | | | | | | | | | | |
|-----------|-------------|---|------------|-------------------|--------------------|---------------|-----------------------------|--------|--------|---------|---------|---------|---------|---------|-------|---------|----------|----------|-------|--|--|
| | | | | | | | 1 MHz | 10 MHz | 50 MHz | 100 MHz | 200 MHz | 400 MHz | 700 MHz | 900 MHz | 1 GHz | 1.2 GHz | 1.45 GHz | 2.25 GHz | 3 GHz | | |
| V18/2PZSB | 75 Ω (+/-3) | 1-455 MHz: >17 dB 455 MHz-2.4 GHz: >15 dB | 16.3 pF/ft | 6.4 Ω | 3.1 Ω | 83% | 0.20 | 0.64 | 1.46 | 2.10 | 3.00 | 4.30 | 5.80 | 6.70 | 7.10 | - | - | - | - | | |
| VB1860SB | 75 Ω (+/-3) | 5 MHz-1 GHz: >20 dB 1 GHz-2.25 GHz: >15 dB 2.25 GHz-3 GHz: >10 dB | 16.2 pF/ft | 28.0 Ω | 9.0 Ω | 83% | 0.34 | 0.81 | 1.51 | 2.10 | 2.83 | 4.00 | 5.30 | 6.55 | 6.59 | 7.57 | 8.80 | 10.10 | 11.79 | | |
| V5010SB | 50 Ω (+/-3) | >15 dB (100kHz-1.8GHz) | 24.0 pF/ft | 1.67 Ω | 1.4 Ω | 83% | 0.11 | 0.35 | 0.83 | 1.20 | 1.77 | 2.63 | 3.50 | 3.98 | 4.25 | - | - | - | - | | |

Power Electrical Specifications

| Part # | Capacitance | Cond. DCR |
|-----------|-----------------------------|-----------|
| V18/2PZSB | 24 pF/ft Between Conductors | 7.2 Ω/Mft |

ABS/SHIPBOARD

ABS Category 6 Network



Gepco® Brand CT604/STDSB Category 6 Cables feature extended bandwidths and precision tolerances to meet the latest ANSI/TIA and ISO standards. Designed to deliver reliability in leading-edge networking, data and video applications, every reel is ETL listed and UL verified to ensure consistent performance. The TRU-Mark® Marking System sequentially marks every two feet of cable in descending order. This Low-Smoke, Zero-Halogen (LSZH) Cat 6 cable is C(ETL)US listed and ABS Type approved.

Features & Benefits

Designed to Meet ANSI/TIA 568-C.2 Standards at a Value to Fit in Your Network Budget

Tighter Twists Over Category 5e, Reducing Network Errors

Increased Pair Separation with Thin Tape Design Minimizing Crosstalk

TRU-Mark® Print Legend with Sequential Footage LSZH Jacket

Applications

Digital Video

Broadband and Baseband Analog Video

IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T

155 Mp/s, 1.2 Gb/s ATM

ANSI X3.263: 100 Mb/s

IEEE 802.3af DTE Power (PoE)

IEEE 802.3at for PoE Plus

In Vessels Quarters Area

In Cable Tray as an Interconnect Cable

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Cond. | Insulation | Pair Color Code | Separator | Jacket | Min. Bend Radius | Max. Pulling Force | UL Type | Weight |
|-------------|------------|------------------|-----------------|------------|--|-----------|---|------------------|--------------------|---------|-----------------------|
| CT604/STDSB | 4 | 0.230" (5.84 mm) | 23 AWG Solid BC | Polyolefin | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Divider | Flame-Retardant, LSZH Polyolefin, Black | 2.0" | 32 lbs | CMG | 29 lbs/Mft (43 kg/km) |

ABS/Shipboard Category 6 Four-Pair 250 MHz

Electrical Specifications

| Part # | DCR Max @ 20°C | DCR Unbal. Max | Char. Imped. | Mutual Capacitance | Prop. Delay (Skew) Max | Vel. of Prop. | Temp. Rating (Installation, Operating) | Standards |
|-------------|-----------------------|----------------|----------------|--------------------|------------------------|---------------|--|--|
| CT604/STDSB | 9.38 Ω/100 m (328 ft) | 3.0% | 100 Ω (+/- 15) | 17 pF/ft | 45 ns/100 m | 68% | 0°C to +60°C, -20°C to +75°C | Meets ANSI/TIA 568-C.2, Cat 6, ISO/IEC 11801 Ed. 2.0 |

ANSI/TIA 568-C.2 Performance

| Freq. (MHz) | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 | 150 | 200 | 250 | 350 | 400 | 500 |
|---------------------------------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Insertion Loss (dB/100 m) (max) | 2.0 | 3.8 | 6.0 | 7.6 | 8.5 | 10.7 | 15.4 | 19.8 | 24.7 | 29.0 | 32.8 | 39.8 | 43.0 | 48.9 |
| PSACR* (dB/100 m) (min) | 70.3 | 59.3 | 51.3 | 46.7 | 44.3 | 39.2 | 29.9 | 22.5 | 14.9 | 8.8 | 3.5 | — | — | — |
| ACR* (dB/100 m) (min) | 72.3 | 61.5 | 53.3 | 48.7 | 46.3 | 41.2 | 32.0 | 24.5 | 16.9 | 10.8 | 5.5 | — | — | — |
| PSNEXT (dB/100 m) (min) | 72.3 | 63.3 | 57.3 | 54.2 | 52.8 | 49.9 | 45.4 | 42.3 | 39.7 | 37.8 | 36.3 | 34.1 | 33.3 | 31.8 |
| NEXT (dB/100 m) (min) | 74.3 | 65.3 | 59.3 | 56.2 | 54.8 | 51.9 | 47.4 | 44.3 | 41.7 | 39.8 | 38.3 | 36.1 | 35.3 | 33.8 |
| PSACRF (dB/100 m) (min) | 64.8 | 52.8 | 44.8 | 40.7 | 38.8 | 34.9 | 28.9 | 24.8 | 21.3 | 18.8 | 16.8 | 13.9 | 12.8 | 10.8 |
| ACRF (dB/100 m) (min) | 67.8 | 55.7 | 47.8 | 43.7 | 41.7 | 37.9 | 31.8 | 27.8 | 24.3 | 21.8 | 19.8 | 16.9 | 15.8 | 13.8 |
| Return Loss (dB) (min) | 20.0 | 23.0 | 25.0 | 25.0 | 25.0 | 23.6 | 21.5 | 20.1 | 18.9 | 18.0 | 17.3 | 16.3 | 15.9 | 15.2 |
| LCL (dB/100 m) (min) | 40.0 | 40.0 | 40.0 | 38.0 | 37.0 | 35.1 | 32.0 | 30.0 | 28.2 | 27.0 | 26.0 | — | — | — |
| ELTCTL (dB/100 m) (min) | 35.0 | 23.0 | 15.0 | 10.9 | 9.0 | — | — | — | — | — | — | — | — | — |

Note: Results beyond 250 MHz for reference only.
*PSACR & ACR not specified in ANSI/TIA 568-C.2

ABS/SHIPBOARD
ABS Category 5e Network



Gepco® Brand CT504/STDSB Category 5e Cables are designed to deliver premier audio, video and data communications capabilities aboard ships. ETL confirmed and ABS Type approved, CT504/STDSB offers low insertion loss, crosstalk and return loss and will perform reliably in marine and offshore environments.

Features & Benefits

- Designed to Deliver Premier Audio, Video & Data Communications
- Tested to 350 MHz
- TRU-Mark® Print Legend with Sequential Footage
- LSZH Jacket

Applications

- Broadband and Baseband Analog Video
- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 52/155 Mp/s ATM
- ANSI X3.263: 100 Mb/s

Mechanical Specifications

| Part # | # of Pairs | Nominal OD | Conductors | Insulation | Pair Color Code | Jacket | Minimum Bend Radius | Maximum Pulling Force | UL Type | Weight |
|-------------|------------|------------------|-----------------|------------|--|---|---------------------|-----------------------|---------|-----------------------|
| CT504/STDSB | 4 | 0.260" (6.60 mm) | 24 AWG Solid BC | Polyolefin | Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown | Flame-Retardant, LSZH Polyolefin, Black | 2.0" | 25 lbs | CMG-LS | 32 lbs/Mft (48 kg/km) |

ABS/Shipboard Category 5e Four-Pair 100 MHz

Electrical Specifications

| Part # | DCR Max @ 20°C | DCR Unbal. Max | Char. Imped. | Mutual Capacitance | Prop. Delay (Skew) Max | Vel. of Prop. | Temp. Rating (Installation, Operating) | Standards | | | | | | |
|-------------------------------------|-----------------------|----------------|---------------|--------------------|------------------------|---------------|--|---|------|------|------|------|------|------|
| CT504/STDSB | 9.38 Ω/100 m (328 ft) | 5.0% | 100 Ω (+/-15) | 17 pF/ft | 45 ns/100 m | 69% | 0°C to +60°C, -20°C to +75°C | Meets or Exceeds ANSI/TIA 568-C.2 Cat 5e, ISO/IEC 11801 Ed. 2.0 | | | | | | |
| ANSI/TIA 568-C.2 Performance | | | | | | | | | | | | | | |
| Freq. (MHz) | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Insertion Loss (dB/100 m) (max) | 2.0 | 4.1 | 6.5 | 8.2 | 9.3 | 10.4 | 11.7 | 17.0 | 22.0 | 28.1 | 32.4 | 36.9 | 41.0 | 44.9 |
| PSACR* (dB/100 m) (min) | 60.3 | 49.2 | 40.8 | 36.0 | 33.5 | 30.9 | 28.2 | 18.4 | 10.3 | 1.4 | — | — | — | — |
| ACR* (dB/100 m) (min) | 63.3 | 52.2 | 43.8 | 39.0 | 36.5 | 33.9 | 31.2 | 21.4 | 13.3 | 4.4 | — | — | — | — |
| PSNEXT (dB/100 m) (min) | 62.3 | 53.3 | 47.3 | 44.2 | 42.8 | 41.3 | 39.9 | 35.4 | 32.3 | 29.4 | 27.8 | 26.3 | 25.1 | 24.1 |
| NEXT (dB/100 m) (min) | 65.3 | 56.3 | 50.3 | 47.2 | 45.8 | 44.3 | 42.9 | 38.4 | 35.3 | 32.4 | 30.8 | 29.3 | 28.1 | 27.1 |
| PSACRF (dB/100 m) (min) | 60.8 | 48.8 | 40.8 | 36.7 | 34.8 | 32.8 | 30.9 | 24.9 | 20.8 | 17.0 | 14.8 | 12.8 | 11.3 | 9.9 |
| ACRF (dB/100 m) (min) | 63.8 | 51.8 | 43.8 | 39.7 | 37.8 | 35.8 | 33.9 | 27.9 | 23.8 | 20.0 | 17.8 | 15.8 | 14.3 | 12.9 |
| Return Loss (dB) (min) | 20.0 | 23.0 | 25.0 | 25.0 | 25.0 | 24.3 | 23.6 | 21.5 | 20.1 | — | — | — | — | — |

Note: Results beyond 100 MHz for reference only.
 *PSACR & ACR not specified in ANSI/TIA 568-C.2

SPECIALTY CABLES
 P. 800.966.0069 P. 847.795.9555 F. 847.795.8770 www.gepco.com

LOW-SMOKE, ZERO-HALOGEN

LSZH Analog Audio Multi-Pair: 24 AWG



This Low-Smoke, Zero-Halogen (LSZH) version of the Gepco® Brand GA724 multi-pair series is designed for low noise and attenuation and is durable, easy to terminate and EU compliant low-smoke zero-halogen. A high-grade polyethylene dielectric minimizes high frequency attenuation, while excellent process control and tight pair twisting achieve superior noise rejection. Color-coded and alphanumerically printed pairs facilitate easy channel identification. The 24 AWG conductors are easier to terminate while still maintaining low DCR.

Features & Benefits

- Flame-Resistant
- Low-Smoke Release & Reduced Toxicity
- Low Attenuation & Crosstalk
- Flexible
- Easy to Terminate
- Polyethylene Dielectric
- Easy-Strip Bonded Foil Shield
- Individually Shielded & Jacketed Pairs
- Color-Coded & Alphanumeric Pair Identification
- Additional Overall Foil Shield

Applications

- Microphone or Line Level Balanced Analog Audio
- Studio Interconnect, Portable Snakes or Permanent Installation
- Ideal for Patchbay Wiring & Multi-Pin Cable Assemblies
- Shipboard

Meets IEC Standards:

- 60332-3-24 CATC Flame Propagation
- 61034-1, -2 Smoke Density
- 60754-2 Degree of Acidity

Mechanical Specifications (Series)

| Conductors | Insulation (Wall/Color Code) | Pair Shield | Pair Drain | Pair Jacket (Type, OD)/ Color Code | Overall Shield | Overall Common Drain | Master Jacket | Flame Resistance |
|---------------------------|-----------------------------------|--------------------|---------------------------|---|----------------|----------------------------|---------------|------------------|
| 24 AWG (7x32) Stranded TC | PE, 0.008" (0.20 mm)/ Red & Black | 100% Foil (Bonded) | 24 AWG (7x32) Stranded TC | FRNC/LSZH, 0.115" (2.92 mm)/ Base 10 (See Color Code Chart 1, Page 142) | 100% Foil | 20 AWG (19x32) Stranded TC | FRNC/LSZH | FRNC-C |

Mechanical Specifications (Individual)

| Part Number | # of Pairs | Nominal OD | Bend Radius | Approx. Weight |
|--------------|------------|-------------------|-------------------|--------------------------|
| GA72404GFCLS | 4 | 0.405" (10.29 mm) | 4.05" (102.9 mm) | 88 lbs/Mft (131 kg/km) |
| GA72408GFCLS | 8 | 0.500" (12.70 mm) | 5.00" (127.0 mm) | 134 lbs/Mft (200 kg/km) |
| GA72412GFCLS | 12 | 0.595" (15.11 mm) | 5.95" (151.1 mm) | 198 lbs/Mft (295 kg/km) |
| GA72416GFCLS | 16 | 0.664" (16.87 mm) | 6.64" (168.7 mm) | 225 lbs/Mft (335 kg/km) |
| GA72426GFCLS | 26 | 0.830" (21.08 mm) | 8.30" (210.8 mm) | 363 lbs/Mft (544 kg/km) |
| GA72432GFCLS | 32 | 0.890" (22.61 mm) | 8.90" (226.1 mm) | 423 lbs/Mft (630 kg/km) |
| GA72448GFCLS | 48 | 1.052" (26.72 mm) | 10.52" (267.2 mm) | 737 lbs/Mft (1098 kg/km) |

Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR | Overall Common DCR |
|---|-------------------------|-------------------------|------------------------|
| 28 pF/ft (92 pF/m) Between Conductors, 51 pF/ft (67 pF/m) Between One Conductor and Other Tied to Shield | 23.8 Ω/Mft (78 Ω/km) | 23.8 Ω/Mft (78 Ω/km) | 8.9 Ω/Mft (29 Ω/km) |

LOW-SMOKE, ZERO-HALOGEN

LSZH Digital Audio Multi-Pair: 24 AWG



The Low-Smoke, Zero-Halogen (LSZH) version of the DS4 series of AES/EBU digital audio multi-pair features an extended 25 MHz bandwidth, ultra-low attenuation, mechanical stability, a precision 110 Ω impedance and is EU-compliant LSZH. With the lowest available attenuation and precision impedance specifications, the DS4 series allows for longer runs of AES3 format digital audio over twisted-pair cable. The extended 25 MHz bandwidth is compliant with the 2003 revision of the AES3 standard for transmission of digital audio at sampling rates up to 192 kHz. Color-coded and alphanumerically printed pairs facilitate easy channel identification and minimize crosstalk.

Features & Benefits

- Flame-Resistant
- Low-Smoke Release & Reduced Toxicity
- Precision 110 Ω Impedance
- 25 MHz Bandwidth for 192 kHz Sampling Rates
- Flexible
- Gas-Injected Foam Dielectric
- Stabilizing Polyethylene Rod
- Individually Shielded & Jacketed Pairs
- Color-Coded & Alphanumeric Pair Identification
- LSZH Jacket

Applications

- AES3 Digital Audio
- Extended Bandwidth Analog Audio
- Studio Interconnect, Permanent Installation or Portable Snakes
- Ideal for Extended-Distance Runs
- Shipboard

Meets IEC Standards:

- 60332-3-24 CATC Flame Propagation
- 61034-1, -2 Smoke Density
- 60754-2 Degree of Acidity

Mechanical Specifications (Series)

| Conductors | Dielectric/ Color Code | Pair Shield | Pair Drain | Pair Jacket (Type, OD)/ Color Code | Master Jacket | Flame Resistance |
|------------------------------|--|----------------|------------------------------|---|------------------------------|---------------------|
| 24 AWG (7x32) Stranded TC | Foam PE, 0.021" (0.533 mm) Wall/White & Black | 100% Foil | 22 AWG (7x30) Stranded TC | FRNC/LSZH, 0.180" (4.57 mm)/Base 10 (See Color Code Chart 1, Page 142) | FRNC/LSZH, Black or Green | FRNC-C |

Mechanical Specifications (Individual)

| Part Number | # of Pairs | Nominal OD | Bend Radius | Approx. Weight |
|-------------|------------|-------------------|------------------|-------------------------|
| DS404LS | 4 | 0.620" (15.75 mm) | 6.20" (157.5 mm) | 159 lbs/Mft (237 kg/km) |
| DS408LS | 8 | 0.815" (20.70 mm) | 8.15" (207.0 mm) | 291 lbs/Mft (428 kg/km) |
| DS412LS | 12 | 0.995" (25.27 mm) | 9.95" (252.7 mm) | 403 lbs/Mft (592 kg/km) |

Electrical Specifications

| Impedance | Capacitance | Cond. DCR | Drain DCR | Attenuation - dB per 100 ft (30.5 m) | | | | |
|--------------|---|---|---|--------------------------------------|-------|-------|--------|--------|
| | | | | 1 MHz | 3 MHz | 6 MHz | 12 MHz | 25 MHz |
| 110 Ω | 11 pF/ft (30 pF/m) Between Conductors, 21 pF/ft (69 pF/m) Between One Conductor and Other Tied to Shield | 23.8 Ω /Mft (78 Ω /km) | 15.3 Ω /Mft (50.2 Ω /km) | 0.09 | 1.30 | 1.60 | 2.15 | 4.10 |

LOW-SMOKE, ZERO-HALOGEN

LSZH Analog Audio Single-Pair: 22 AWG



The industry-standard for balanced audio cable for permanent installation, Gepco® Brand 61801EZLS 22 AWG single-pair audio cable features stranded tinned-copper conductors that are easy to solder or punch-down. Excellent process control and tight pair twisting ensure superior noise rejection, while the high-grade polyethylene dielectric minimizes high-frequency attenuation. The 22 AWG conductors offer the lowest DCR available in any Gepco Brand single-pair product, and the foil shield with same gauge drain wire facilitates quick shield termination. Ideal for punch-down, rack wiring and extended-distance runs of mic level signals, 61801EZLS is EU-compliant low-smoke zero-halogen.

Features & Benefits

Flame-Resistant
Low-Smoke Release & Reduced Toxicity
Easy-Strip, Bonded Foil Shield; Easy to Terminate

Applications

Microphone or Line Level Balanced Analog Audio
Patchbay, Rack or Console Permanent Installation Wiring
Ideal for Extended-Distance Runs
Shipboard

Meets IEC Standards:

- 60332-3-24 CATC Flame Propagation
- 61034-1, -2 Smoke Density
- 60754-2 Degree of Acidity

Mechanical Specifications

| Part # | # of Pairs | Nom. OD | Conductors | Dielectric (Wall/Colors) | Shield | Drain | Jacket | Flame Resistance | Bend Radius | Operating Temp. Range | Max. Pull Tension | Approx. Weight |
|-----------|------------|-----------------|---------------------------|----------------------------------|--------------------|---------------------------|-------------------------|------------------|---------------|----------------------------------|-------------------|-----------------------|
| 61801EZLS | 1 | 0.138" (3.5 mm) | 22 AWG (7x30) Stranded TC | PE, 0.008" (0.2 mm)/ Red & Black | 100% Foil (Bonded) | 22 AWG (7x30) Stranded TC | FRNC/LSZH Black & Green | FRNC-C | 1.38" (35 mm) | -30°C to +75°C -22°F to 167°F | 121.4 N | 15 lbs/Mft (22 kg/km) |

LSZH Analog Audio Single-Pair: Easy Strip

Electrical Specifications

| Capacitance | Cond. DCR | Drain DCR |
|--|----------------------|----------------------|
| 35 pF/ft (112 pF/m) Between Conductors, 67 pF/ft (203 pF/m) Between One Conductor and Other Tied to Shield | 15.3 Ω/Mft (50 Ω/km) | 15.3 Ω/Mft (50 Ω/km) |

LOW-SMOKE, ZERO-HALOGEN

LSZH Digital Audio Single-Pair: 24 & 26 AWG



The Gepco® Brand AES/EBU digital audio twisted-pair cables feature an extended 25 MHz bandwidth, low attenuation, mechanical stability and a precision 110 Ω impedance. The extended 25 MHz bandwidth is compliant with the AES3 standard for transmission of digital audio at sampling rates up to 192 kHz. Available 24 and 26 AWG versions, Gepco Brand AES/EBU digital audio cables are EU-compliant low-smoke zero-halogen.

Features & Benefits

Flame-Resistant
Low-Smoke Release & Reduced Toxicity
Precision 110 Ω Impedance
25 MHz Bandwidth for 192 kHz Sampling Rates
Stabilizing Polyethylene Rod

Applications

AES3 Digital Audio
Extended Bandwidth Analog Audio
Time Code
Shipboard

Meets IEC Standards:

- 60332-3-24 CATC Flame Propagation
- 61034-1, -2 Smoke Density
- 60754-2 Degree of Acidity

Mechanical Specifications

| Part # | # of Pairs | Nom. OD | Conductors | Dielectric (Wall/Colors) | Fillers | Shield | Drain | Jacket | Flame Resistance | Bend Radius | Operating Temp. Range | Max. Pull Tension | Approx. Weight |
|---|------------|-----------------|---------------------------|--|-------------------------------|-----------|---------------------------|-------------------------|------------------|----------------|----------------------------------|-------------------|-----------------------|
| DS401LS | 1 | 0.180" (4.6 mm) | 24 AWG (7x32) Stranded TC | Foam PE, 0.021" (0.5 mm)/White & Black | Solid Virgin Polyethylene Rod | 100% Foil | 22 AWG (7x30) Stranded TC | FRNC/LSZH Black & Green | FRNC-C | 1.8" (45.7 mm) | -30°C to +75°C -22°F to 167°F | 88.9 N | 13lbs/Mft (19 kg/km) |
| LSZH Wide Bandwidth 110 Ω Digital Audio Single-Pair: Easy Strip | | | | | | | | | | | | | |
| DS601LS | 1 | 0.143" (3.6 mm) | 26 AWG (7x34) Stranded TC | Foam PP, 0.015" (0.4 mm)/White & Black | Solid Virgin Polyethylene Rod | 100% Foil | 24 AWG (7x32) Stranded TC | FRNC/LSZH Black & Green | FRNC-C | 1.4" (35.7 mm) | -30°C to +75°C -22°F to 167°F | 53.4 N | 10 lbs/Mft (15 kg/km) |
| LSZH Thin Profile 110 Ω Digital Audio Single-Pair | | | | | | | | | | | | | |

Electrical Specifications

| Part # | Impedance | Capacitance | Cond. DCR | Drain DCR | Attenuation - dB per 100 ft (30.5 m) | | | | |
|---------|-----------|--|-----------------------|----------------------|--------------------------------------|-------|-------|--------|--------|
| | | | | | 1 MHz | 3 MHz | 6 MHz | 12 MHz | 25 MHz |
| DS401LS | 110 Ω | 11 pF/ft (36 pF/m) Between Conductors, 21 pF/ft (69 pF/m) Between One Conductor and Other Tied to Shield | 23.8 Ω/Mft (78 Ω/km) | 15.3 Ω/Mft (50 Ω/km) | 0.90 | 1.30 | 1.60 | 2.15 | 4.10 |
| DS601LS | 110 Ω | 14 pF/ft (46 pF/m) Between Conductors, 27 pF/ft (89 pF/m) Between One Conductor and Other Tied to Shield | 38.5 Ω/Mft (126 Ω/km) | 23.8 Ω/Mft (78 Ω/km) | 1.25 | 1.85 | 2.40 | 3.16 | 4.20 |

LOW-SMOKE, ZERO-HALOGEN

LSZH High-Definition SDI Coax



TactiCel™
Strong Cell Technology

Gepco now offers what precision high-performance cable broadcasters all over the world depend on ... EU-Compliant Low-Smoke, Zero-Halogen (LSZH) Cabling Solutions. Re-engineered using advanced jacket compounds that offer flame resistance, low-smoke production and reduced toxicity, Gepco LSZH Video cables deliver exceptional quality while complying with IEC and RoHS standards.

The Gepco® Brand LSZH high-definition video coax series has been designed to feature a 4.5 GHz bandwidth (for HDTV transmission), TactiCel™ gas-injected foam dielectric, lower attenuation, excellent crush resistance and easy termination. The gas-injected dielectric and precision process control are critical factors in achieving superior electrical performance including faster velocity of propagation, tight impedance tolerance, low attenuation and low structural return loss across the entire 4.5 GHz bandwidth.

Features & Benefits

- Flame-Resistant
- Low-Smoke Release & Reduced Toxicity
- Easy-Strip, Bonded Foil Shield; Easy to Terminate
- Flame-Resistant
- Low-Smoke Production & Reduced Toxicity
- Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation
- TactiCel™ Gas-Injected Foam Dielectric
- Full-Copper Braid & Foil Shield
- 100% Sweep Tested

Applications

- High-Definition or Standard-Definition Serial Digital Video
- High-Resolution Analog Video
- Digital Audio (AES3id, SPDIF or Word Clock)

Meets IEC Standards:

- 60332-3-24 CATC Flame Propagation
- 61034-1, -2 Smoke Density
- 60754-2 Degree of Acidity

| Mechanical Specifications | | | | | | | | | | | | | | | | | | | |
|--|--|------------------------|----------------------------------|---------------------------------------|-------------------------|--|------------------|-----------------|----------------------------------|-------------------|------------------------|---------|---------|-------|---------|----------|-------|---------|-------|
| Part # | # of Cond. | Nom. OD | Conductor | Insulation (Type, OD) | Shield | Jacket (Type, Colors) | Flame Resistance | Bend Radius | Operating Temp. Range | Max. Pull Tension | Approx. Weight | | | | | | | | |
| VHD1100LS | 1 | 0.405" (10.3 mm) | 14 AWG Solid BC, 0.063" (1.6 mm) | Gas-Injected Foam PE, 0.285" (7.2 mm) | 95% TC Braid, 100% Foil | FRNC/LSZH Black & Green | FRNC-C | 4.05" (102 mm) | -30°C to +75°C -22°F to 167°F | 441.3 N | 76 lbs/Mft (113 kg/km) | | | | | | | | |
| LSZH Extended-Distance RG 11 HD Coax | | | | | | | | | | | | | | | | | | | |
| VSD2001LS | 1 | 0.272" (6.9 mm) | 18 AWG Solid BC, 0.039" (1.0 mm) | Gas-Injected Foam PE, 0.180" (4.6 mm) | 95% TC Braid, 100% Foil | FRNC/LSZH Black & Green | FRNC-C | 2.75" (69.9 mm) | -30°C to +75°C -22°F to 167°F | 306.9 N | 42 lbs/Mft (62 kg/km) | | | | | | | | |
| LSZH Low-Loss RG 6 HD Coax | | | | | | | | | | | | | | | | | | | |
| VPM2000LS | 1 | 0.242" (6.2 mm) | 20 AWG Solid BC, 0.031" (0.8 mm) | Gas-Injected Foam PE, 0.146" (3.7 mm) | 95% TC Braid, 100% Foil | FRNC/LSZH Black & Green | FRNC-C | 2.50" (63.5 mm) | -30°C to +75°C -22°F to 167°F | 275.3 N | 35 lbs/Mft (52 kg/km) | | | | | | | | |
| LSZH Standard RG 59 HD Coax | | | | | | | | | | | | | | | | | | | |
| VDM230ELS | 1 | 0.177" (4.5 mm) | 23 AWG Solid BC, 0.024" (0.6 mm) | Gas-Injected Foam PE, 0.11" (2.8 mm) | 95% TC Braid, 100% Foil | FRNC/LSZH Black & Green | FRNC-C | 1.50" (38 mm) | -30°C to +75°C -22°F to 167°F | 181.7 N | 23 lbs/Mft (34 kg/km) | | | | | | | | |
| LSZH Miniature HD/SDI Coax: 23 AWG Solid | | | | | | | | | | | | | | | | | | | |
| Electrical Specifications | | | | | | | | | | | | | | | | | | | |
| Part # | Return Loss (100 kHz-1 GHz), Imped. (+/-2) | Capac. (1 GHz-4.5 GHz) | Cond. DCR | Shield DCR | Vel. of Prop. | Nominal Attenuation - dB per 100 ft (30.5 m) | | | | | | | | | | | | | |
| | | | | | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 720 MHz | 1 GHz | 1.5 GHz | 2.25 GHz | 3 GHz | 4.5 GHz | |
| VHD1100LS | 75 Ω (+/-2) | >23 dB, >21 dB | 16.2 pF/ft (53 pF/m) | 2.5 Ω/Mft (8 Ω/km) | 1.5 Ω/Mft (5 Ω/km) | 84% | 0.14 | 0.28 | 0.43 | 1.02 | 1.40 | 1.92 | 2.25 | 3.30 | 3.86 | 4.73 | 5.80 | 6.72 | 8.75 |
| VSD2001LS | 75 Ω (+/-2) | >23 dB, >21 dB | 16.3 pF/ft (54 pF/m) | 6.4 Ω/Mft (21 Ω/km) | 2.8 Ω/Mft (9 Ω/km) | 83% | 0.22 | 0.43 | 0.70 | 1.60 | 2.10 | 2.96 | 3.40 | 4.95 | 5.87 | 7.30 | 9.13 | 10.65 | 13.28 |
| VPM2000LS | 75 Ω (+/-2) | >23 dB, >21 dB | 16.3 pF/ft (54 pF/m) | 10.2 Ω/Mft (34 Ω/km) | 3.5 Ω/Mft (12 Ω/km) | 83% | 0.28 | 0.53 | 0.86 | 2.05 | 2.71 | 3.80 | 4.38 | 6.40 | 7.57 | 9.29 | 11.57 | 13.36 | 16.39 |
| VDM230ELS | 75 Ω (+/-2) | >23 dB, >21 dB | 16.3 pF/ft (54 pF/m) | 20.4 Ω/Mft (67 Ω/km) | 4.0 Ω/Mft (13 Ω/km) | 82% | 0.39 | 0.85 | 1.28 | 3.25 | 4.10 | 5.80 | 6.66 | 10.00 | 11.25 | 13.93 | 17.21 | 19.87 | 24.52 |

Audio, Video, Fiber and Custom Assemblies

General Cable

manufactures a complete range of Gepco Brand cable assemblies made from an extensive line of audio, video and data cables. Gepco® Brand

Audio, Video, Fiber and Custom Assemblies

are hand-terminated in the U.S.A with premium connectors and can be produced in standard or custom configurations.

Cable Types for Almost Any Application

Our audio, video and fiber cable assemblies can be produced from almost any of Gepco's broad range of cables and distributed connector brands. From multi-pair audio snakes to precision video cables, from component video snakes to hybrid fiber camera cables, Gepco can provide cable assembly solutions for almost any professional audio or video application.

Premium Connectors and Specialty Components

Gepco utilizes only professional-quality connectors from a range of industry-proven connector manufacturers. LEMO®, Neutrik®, ADC® and Kings® are just a few of the many brands of connectors that Gepco stocks and can readily terminate to almost any of Gepco's cable types.

Standard and Custom Capabilities

Each assembly is built to order at Gepco; therefore, cable assemblies may easily be produced in custom configurations. Custom pin-outs and lengths can be made just as easily as standard configurations. This allows for proper interfacing with a variety of connector options while providing a clean installation devoid of excess cable. Once terminated, Gepco's assemblies are 100% quality inspected and tested to ensure the performance and reliability required for the most demanding applications.



AUDIO ASSEMBLIES & BREAKOUT SYSTEMS

Cables terminated with connectors for professional audio applications

Industry-Proven Termination Methods

Gepco audio cable assemblies are built with durable and field-proven termination methods. Most audio connectors are hand-soldered—providing a more robust connection than cheaper, over-molded insulation displacement contacts—and have heat shrink, sleeving, and rugged strain-relief systems. These methods and materials significantly increase the operating life of the cable and allow for field reparability or modification. Most contacts are also available in gold-plated versions to provide superior conductivity and tarnish resistance.



Gepco audio assemblies and breakout systems include:

| | | |
|-------------------|-----------------------------------|---------------------|
| Microphone | 110 Ohm Digital Audio Single-Pair | DT12 Snakes |
| Speaker | 110 Ohm Digital Audio Snakes | DT12 Fanouts |
| Guitar/Instrument | GEP-FLEX Multi-Pair Audio Snakes | DT12 Breakout Boxes |
| Patchcords | X-Band Multi-Pair Audio Snakes | Stage Box Snakes |

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Audio, Video, Fiber and Custom Assemblies



VIDEO ASSEMBLIES & BREAKOUT SYSTEMS

Cables terminated with connectors for professional video applications

Precision Termination Methods

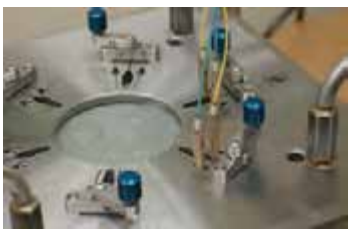
Gepco video cable assemblies are also built with durable and proven termination methods. Most video connector types are terminated by hand, utilizing precision automated strippers and crimpers to achieve the exact mechanical specifications of the individual connector type.

Since mechanical integrity is the foundation of the electrical performance, this high degree of precision ensures repeatability, exceptionally low insertion loss and return loss, and precision characteristic impedance.



Gepco video assemblies and breakout systems include:

- | | |
|------------------------------|--|
| Single-Channel Coax | VGA Breakout |
| SVHS/HDMI/DVI | V-CON Multi-Channel |
| Patchcords | V-CON Multi-Channel Breakout Boxes |
| HD Video Snakes | V-CON Multi-Channel Distribution Racks |
| Composite Audio/Video Snakes | Triax Camera |



FIBER OPTIC ASSEMBLIES & BREAKOUT SYSTEMS

Cables terminated with connectors for professional HD camera applications

Machine-Polished Fiber Contacts

Gepco fiber cable assemblies feature multi-stage, machine-polished fiber contacts for superior performance. This process achieves the low attenuation and return loss required for high-speed uncompressed HD video transmission. In addition, all contacts are optically tested and verified for consistent performance.



Gepco video assemblies and breakout systems include:

- | | |
|-----------------------------------|--|
| SMPTE 304/311 Hybrid Fiber Optic | Hybrid Fiber Breakout Boxes & Racks |
| Hybrid Fiber Breakout | Hybrid Fiber Fusion Splice Boxes & Racks |
| Neutrik® opticalCON® | SMPTE Field and Studio Boxes |
| TAC-4 & TAC-12 | V-CON Multi-Channel Distribution Racks |
| ST/SC/LC Tactical Snakes | Modular Hybrid Fiber & Triax Panels |
| ST/SC/LC Permanent Install Snakes | Feedthrough Panels and Chassis |



CUSTOM ASSEMBLIES, PANELS AND HARNESSING

Cable assemblies, panels, harnesses and pre-wires manufactured to customer specifications

In addition to Gepco's standard audio, video and fiber assemblies, which may be customized, Gepco also has the ability to provide other highly customized assemblies or pre-wires. These assemblies are fabricated with the same proven methods used in the standard audio, video and fiber assemblies and utilize the same diverse range of connector brands and options.



Examples of Gepco assemblies, panels and harnessing include:

- | | |
|---|--|
| Patchbay Harnessing | Customized Breakout Boxes |
| Multi-Pin Assemblies | High-Volume OEM Supplier |
| Blunt at One End for Permanent Installation on Location | Multiple Cable Types Under a Single Expandable Sleeving Jacket |
| Pre-Wired Custom Panels | Cable Repairs |



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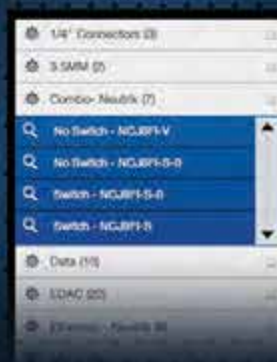
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Since 1981, Gepco[®] has been committed to the development and manufacture of cable and connectivity products for the broadcast and professional A/V markets. Through continual involvement in technology and by listening closely to its customers, Gepco has developed a collection of unique and innovative solutions for the professional broadcast market. Now, Gepco extends this exceptional quality and excellence—that has delivered confidence and performance to the broadcast industry—into commercial applications.

Excellence starts with innovative design. Produced with the same technology and process control utilized in the manufacture of cables for broadcast applications, the Gepco[®] Brand Commercial A/V line provides an unrivaled level of performance to the Commercial A/V Market. With integrated design, manufacturing, and quality control, Gepco delivers exceptional electrical and mechanical specifications to meet or exceed the requirements for the leading-edge audio, video, data and control formats found in Commercial A/V systems.

When demanding Commercial A/V applications require a pure, undiluted signal for exceptional results, Gepco Brand is the solution.



Custom Assembly Capabilities

Gepco's complete range of cable assemblies are made from an extensive line of Gepco[®] Brand audio and video products. Gepco Audio, Video and Custom Assemblies are hand-terminated in the U.S.A. with premium connectors and may be produced in standard or custom configurations.



Cable Types for Almost Any Application

Our audio and video assemblies can be manufactured from almost any of Gepco's broad range of cables and industry-standard connectors. From microphone cables to component video snakes, Gepco provides cable assembly solutions for almost any commercial audio or video application.



Standard and Custom Capabilities

Each assembly is built to order, therefore, cable assemblies may easily be produced in custom configurations. Custom pin-outs and lengths can be made just as easily as standard configurations. This allows for proper interfacing with a variety of connector options while providing a clean installation devoid of excess cable.

Audio Cable

Every component in an audio system is crucial, especially for the integrity and quality of the cable interconnections. The audio cable directly affects the power distribution, imaging and response of the audio signal. Through utilization of premium-grade compounds, high-purity copper conductors and precision tolerances, the Gepco® Brand commercial line of audio cables reduces loss, minimizes noise and ensures a true, clear and accurate signal transfer from microphone signal inputs all the way through to speaker outputs.

| Cable Solution | Description | Page |
|--|---|-------|
| Microphone Cable | | |
| MM1024* | 26 (30x40) AWG TC 4 Cond, 95% TC Braid, Quad Star, PVC Black (*Not UL Rated) | 20 |
| MP1201* | 24 (41x40) AWG BC 4 Cond, 95% TC Braid, Quad Star, PVC Black (*Not UL Rated) | 20 |
| MP1022* | 24 (41x40) AWG TC 2 Cond, 95% TC Braid, PVC Black (*Not UL Rated) | 21 |
| M1042* | 20 (26x34) AWG TC 2 Cond 95% TC Braid, TPE Black (*Not UL Rated) | 18 |
| Guitar/Musical Instruments Cables - Low Capacitance | | |
| GLC20* | 20 (41x36) AWG BC 1 Cond 95% BC Braid, PVC Black (*Not UL Rated) | 17 |
| Plenum Cable Solution | | |
| Non-Plenum Cable Solution | | |
| | Description | Page |
| High-Grade Line Level Audio | | |
| SSS222P | SSS222R 22 (7x30) AWG BC 1 Pr, Foil Shield, PVC Natural CMP/Gray CMR | 13 |
| SSS202P | SSS202R 20 (7x28) AWG BC 1 Pr, Foil Shield, PVC Natural CMP/Gray CMR | 13 |
| Premium Line Level Audio | | |
| 72401EZ | 24 (7x32) AWG TC 1 Pr, Foil Shield, PVC Multiple Colors CM | 15 |
| 61801HS | 61801EZ 22 (7x30) AWG TC 1 Pr, Foil Shield, PVC White CMP/Multiple Colors CMR | 14 |
| Line Level Audio Snake | | |
| GA72402GFC | 24 (7x32) AWG TC 2 Pr, Ind Shielded, TPE Black CM | 7 |
| GA72404GFC | 24 (7x32) AWG TC 4 Pr, Ind Shielded, TPE Black CM | 7 |
| GA72408GFC | 24 (7x32) AWG TC 8 Pr, Ind Shielded, TPE Black CM | 7 |
| GA72412GFC | 24 (7x32) AWG TC 12 Pr, Ind Shielded, TPE Black CM | 7 |
| GA72416GFC | 24 (7x32) AWG TC 16 Pr, Ind Shielded, TPE Black CM | 7 |
| GA72426GFC | 24 (7x32) AWG TC 26 Pr, Ind Shielded, TPE Black CM | 7 |
| GA72432GFC | 24 (7x32) AWG TC 32 Pr, Ind Shielded, TPE Black CM | 7 |
| GA61802GFC | 22 (7x30) AWG TC 2 Pr, Ind Shielded, TPE Blue CMR | 6 |
| 6604HS | GA61804GFC 22 (7x30) AWG TC 4 Pr, Ind Shielded, PVC White CMP/TPE Blue CMR | 12, 6 |
| 6606HS | GA61806GFC 22 (7x30) AWG TC 6 Pr, Ind Shielded, PVC White CMP/TPE Blue CMR | 12, 6 |
| 6608HS | GA61808GFC 22 (7x30) AWG TC 8 Pr, Ind Shielded, PVC White CMP/TPE Blue CMR | 12, 6 |
| 6612HS | GA61812GFC 22 (7x30) AWG TC 12 Pr, Ind Shielded, PVC White CMP/TPE Blue CMR | 12, 6 |
| | GA61816GFC 22 (7x30) AWG TC 16 Pr, Ind Shielded, TPE Blue CMR | 6 |
| | GA61820GFC 22 (7x30) AWG TC 20 Pr, Ind Shielded, TPE Blue CMR | 6 |
| | GA61826GFC 22 (7x30) AWG TC 26 Pr, Ind Shielded, TPE Blue CMR | 6 |
| | GA61832GFC 22 (7x30) AWG TC 32 Pr, Ind Shielded, TPE Blue CMR | 6 |
| AES EBU Digital Audio | | |
| DS601 | 26 (7x34) AWG TC 1 Pr, Foil Shield, PVC Black CM | 35 |
| DS601D | 26 (7x34) AWG TC 2 Pr Zip, Foil Shield, PVC Black/Red Stripe CM | 35 |
| DS604 | 26 (7x34) AWG TC 4 Pr, Foil Shield, Outer Jacket TPE Black CM | 33 |
| DS608 | 26 (7x34) AWG TC 8 Pr, Foil Shield, Outer Jacket TPE Black CM | 33 |
| DS612 | 26 (7x34) AWG TC 12 Pr, Foil Shield, Outer Jacket TPE Black CM | 33 |
| DS616 | 26 (7x34) AWG TC 16 Pr, Foil Shield, Outer Jacket TPE Black CM | 33 |
| DS624 | 26 (7x34) AWG TC 24 Pr, Foil Shield, Outer Jacket TPE Black CM | 33 |
| DS401TS | DS401 24 (7x32) AWG TC 1 Pr, Foil Shield, PVC White CMP/Black or Violet CMR | 34 |
| | DS401D 24 (7x32) AWG TC 2 Pr, Zip Foil Shield, PVC Violet with Red Stripe CMR | 34 |
| | DS404 24 (7x32) AWG TC 4 Pr, Foil Shield, Outer Jacket TPE Violet CMR | 32 |
| | DS408 24 (7x32) AWG TC 8 Pr, Foil Shield, Outer Jacket TPE Violet CMR | 32 |
| | DS412 24 (7x32) AWG TC 12 Pr, Foil Shield, Outer Jacket TPE Violet CMR | 32 |

| Plenum Cable Solution | Riser Cable Solution | Description | Page |
|--|---|---|--------|
| Speaker and Control Cable - Unshielded | | | |
| SSU182P | SSU182R | 18 (7x26) AWG BC 2 Cond, PVC Natural or Gray CMP/Gray CMR | 27, 26 |
| SSU162P | SSU162R | 16 (19x29) AWG BC 2 Cond, PVC Natural or Gray CMP/Gray CMR | 27, 26 |
| SSU142P | SSU142R | 14 (19x27) AWG BC 2 Cond, PVC Natural or Gray CL3P/Gray CL3R | 27, 26 |
| SSU122P | SSU122R | 12 (19x25) AWG BC 2 Cond, PVC Natural or Gray CL3P/Gray CL3R | 27, 26 |
| SSU102P | SSU102R | 10 (65x28) AWG BC 2 Cond, PVC Natural or Gray CL3P/Gray CL2R | 27, 26 |
| SSU224P | SSU224R | 22 (7x30) AWG BC 4 Cond, PVC Natural or Gray CMP/Gray CMR | 27, 26 |
| SSU204P | SSU204R | 20 (7x28) AWG BC 4 Cond, PVC Natural or Gray CMP/Gray CMR | 27, 26 |
| SSU184P | SSU184R | 18 (7x26) AWG BC 4 Cond, PVC Natural or Gray CMP/Gray CMR | 27, 26 |
| SSU164P | SSU164R | 16 (19x29) AWG BC 4 Cond, PVC Natural or Gray CMP/Gray CMR | 27, 26 |
| SSU144P | SSU144R | 14 (19x27) AWG BC 4 Cond, PVC Natural or Gray CL3P/Gray CL3R | 27, 26 |
| SSU124P | SSU124R | 12 (19x25) AWG BC 4 Cond, PVC Natural or Gray CL3P/Gray CL3R | 27, 26 |
| SSU226P | SSU226R | 22 (7x30) AWG BC 6 Cond, PVC Natural or Gray CMP/Gray CMR | 27, 26 |
| Speaker and Control Cable - Shielded | | | |
| SSS182P | SSS182R | 18 (7x26) AWG BC 2 Cond, Foil Shield, PVC Natural or Gray CMP/Gray CMR | 29, 28 |
| SSS162P | SSS162R | 16 (19x29) AWG BC 2 Cond, Foil Shield, PVC Natural or Gray CMP/Gray CMR | 29, 28 |
| SSS142P | SSS142R | 14 (19x27) AWG BC 2 Cond, Foil Shield, PVC Nat or Gray CL3P/Gray CL3R | 29, 28 |
| SSS122P | SSS122R | 12 (19x25) AWG BC 2 Cond, Foil Shield, PVC Nat or Gray CL3P/Gray CL3R | 29, 28 |
| SSS224P | SSS224R | 22 (7x30) AWG BC 4 Cond, Foil Shield, PVC Natural or Gray CMP/Gray CMR | 29, 28 |
| SSS204P | SSS204R | 20 (7x28) AWG BC 4 Cond, Foil Shield, PVC Natural or Gray CMP/Gray CMR | 29, 28 |
| SSS184P | SSS184R | 18 (7x26) AWG BC 4 Cond, Foil Shield, PVC Natural or Gray CMP/Gray CMR | 29, 28 |
| SSS164P | SSS164R | 16 (19x29) AWG BC 4 Cond, Foil Shield, PVC Natural or Gray CMP/Gray CMR | 29, 28 |
| SSS144P | SSS144R | 14 (19x27) AWG BC 4 Cond, Foil Shield, PVC Nat or Gray CL3P/Gray CL3R | 29, 28 |
| SSS124P | SSS124R | 12 (19x27) AWG BC 4 Cond, Foil Shield, PVC Nat or Gray CL3P/Gray CL3R | 29, 28 |
| SSS226P | SSS226R | 22 (7x30) AWG BC 6 Cond, Foil Shield, PVC Natural or Gray CMP/Gray CMR | 29, 28 |
| Cable Solution | | | |
| Description | | | |
| Speaker Cable - Unshielded Indoor/Outdoor Direct Burial - OFC | | | |
| SSPUB162 | 16 (65x34) AWG OFC BC 2 Cond, PVC White or Black CM/CL3/PLTC | | 24 |
| SSPUB142 | 14 (105x34) AWG OFC BC 2 Cond, PVC White, Violet or Black CL3/PLTC | | 24 |
| SSPUB164 | 16 (65x34) AWG OFC BC 4 Cond, PVC Teal CM/CL3/PLTC | | 24 |
| SSPUB144 | 14 (105x34) AWG OFC BC 4 Cond, PVC Blue CL3/PLTC | | 24 |
| Speaker Cable - Unshielded Indoor/Outdoor Direct Burial | | | |
| SSUB162 | 16 (65x34) AWG BC 2 Cond, PVC White or Black CM/CL3 | | 24 |
| SSUB142 | 14 (41x30) AWG BC 2 Cond, PVC White or Black CL3 | | 24 |
| SSUB122 | 12 (105x32) AWG BC 2 Cond, PVC White or Black CL3 | | 24 |
| SSUB164 | 16 (65x34) AWG BC 4 Cond, PVC White or Black CL3 | | 24 |
| SSUB144 | 14 (41x30) AWG BC 4 Cond, PVC White or Black CL3 | | 24 |
| SSUB124 | 12 (105x32) AWG BC 4 Cond, PVC White or Black CL3 | | 24 |
| Cable Solution | | | |
| Description | | | |
| Speaker Cable - High Definition - OFC | | | |
| GSC1220FC* | 12 (259x36) AWG OFC BC, Zip, PVC Transparent (*Not UL Rated. Not for use within walls.) | | 22 |
| GSC1020FC* | 10 (423x36) AWG OFC BC, Zip, PVC Transparent (*Not UL Rated. Not for use within walls.) | | 22 |



Video Cable

The visual image is the core of any video system. Modern high resolution and High Definition video formats now demand an even greater degree of quality and bandwidth from the cable interconnect system. To bring a higher level of performance to commercial video applications, the Gepco® Brand commercial line of video cables are made using the same techniques and materials used in professional, studio-grade video coax. Every Gepco Brand video cable is built to exacting electrical and mechanical specifications then comprehensively tested and verified. As a result, the video image is transmitted with minimal loss or errors, delivering exceptionally true and clear images. Through precision, Gepco Brand video cables deliver your clearest vision.

| Plenum Cable Solution | Non-Plenum Cable Solution | Description | Page |
|---|---------------------------|--|--------|
| Broadband Coax - CATV - MATV - DBS | | | |
| C3524 | C5886 | RG 6 18 AWG Solid CCS, Bonded Foil, 80% AL Braid CMP/60% AL Braid CMR, PVC Natural CMP/Black CMR | — |
| C3525 | C5889 | RG 6 18 AWG Solid CCS, Quad-Shield Dual Foil, 60%/40% AL Braid, PVC Natural CMP/Black CMR | — |
| 495027 | 395029 | RG 11 14 AWG Solid BC, Dual Foil, 95% TC Braid, PVDF Natural CMP/PVC Black or White CMR | — |
| C3529 | C5044 | RG 11 14 AWG Solid CCS, Quad-Shield Dual Foil, 60%/40% AL Braid, PVDF White CMP/PVC Black CM | — |
| High Definition Coax - HDTV - Serial Digital Interface - SDI | | | |
| VSD2001TS | VSD2001 | RG 6 18 AWG Solid BC, Foil, 95% TC Braid, PVC White CMP/Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or White CMR | 38 |
| VHD1100TK | VHD1100 | RG 11 14 AWG Solid BC, Foil, 95% TC Braid, PVDF White CMP/PVC Black CMR | 38 |
| VPM2000TS | VPM2000 | RG 59 20 AWG Solid BC, Foil, 95% TC Braid, PVC White CMP/Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or White CMR | 38 |
| VDM230TS | VDM230 | Mini 23 AWG Solid BC, Foil, 95% TC Braid, PVC Black or White CMP/Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or White CMR | 40 |
| | VDM250 | Mini 25 (7x33) AWG BC, Foil, 95% TC Braid, PVC Black CMR | 40 |
| | VDM250D* | Dual Coax Mini 25 (7x33) AWG BC, Foil, 95% TC Braid, PVC Black (*Not UL Rated) | 40 |
| Component Video RGB Coax Cable | | | |
| SV253SP | SV253SR | 3 Coax Mini 25 AWG Solid BC, Foil, 95% TC Braid, Red, Green Blue, Outer Jacket PVC White CMP/Black CMR | 45, 47 |
| SV254SP | SV254SR | 4 Coax Mini 25 AWG Solid BC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, Outer Jacket PVC White CMP/Black CMR | 45, 47 |
| SV255SP | SV255SR | 5 Coax Mini 25 AWG Solid BC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, White, Outer Jacket PVC White CMP/Black CMR | 45, 47 |
| | SV256SR | 6 Coax Mini 25 AWG Solid BC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, White, Black, Outer Jacket PVC Black CMR | 47 |
| | SV253STR | 3 Coax Mini 25 (7x33) AWG BC, Foil, 95% TC Braid, Red, Green, Blue, Outer Jacket TPE Black CM | 46 |
| | SV254STR | 4 Coax Mini 25 (7x33) AWG BC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, Outer Jacket TPE Black CM | 46 |
| | SV255STR | 5 Coax Mini 25 (7x33) AWG BC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, White, Outer Jacket TPE Black CM | 46 |
| | SV256STR | 6 Coax Mini 25 (7x33) AWG BC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, White, Black, Outer Jacket TPE Black CM | 46 |
| | VS32001 | 3 Coax RG 6 18 AWG Solid BC, Foil, 95% TC Braid, Red, Green, Blue, Outer Jacket TPE Black CMR | 54 |
| | VS42001 | 4 Coax RG 6 18 AWG Solid BC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, Outer Jacket TPE Black CMR | 54 |
| | VS52001 | 5 Coax RG 6 18 AWG Solid BC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, White, Outer Jacket TPE Black CMR | 54 |
| | VS62001* | 6 Coax RG 6 18 AWG Solid BC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, White, Black, Outer Jacket TPE Black (*Not UL Rated) | 54 |
| Composite Cable - Video + Audio or Data | | | |
| RGB62TS | | 6 Coax Mini 26 (7x34) AWG TC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, White, Black + 22 (7x30) AWG TC 2 Pr, Outer Jacket PVC White CL2P | 48 |
| | RGB62 | 6 Coax Mini 26 AWG Solid BC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, White, Black + 24 (7x32) AWG TC 2 Pr, Outer Jacket Flexible TPE Black CM | 48 |
| RGB644TS | | 6 Coax Mini 26 (7x34) AWG TC, Foil, 95% TC Serve, Red, Green, Blue, Yellow, White, Black + 26 (7x34) AWG TC 4 Pr + 4 Power 20 (7x28) AWG TC, Outer Jacket PVC White CL2P | 49 |
| | RGB644 | 6 Coax Mini 26 AWG Solid BC, Foil, 95% TC Braid, Red, Green, Blue, Yellow, White, Black + 26 (7x34) AWG TC 4 Pr + 4 Power 20 (7x28) AWG TC, Outer Jacket Flexible TPE Black CM | 49 |
| | VA2/2TP* | 2 Coax Mini 25 (7x33) BC, Foil, 95% TC Braid, Black, White + 22 (7x30) AWG TC 2 Pr, Outer Jacket TPE Black (*Not UL Rated) | 56 |
| | VA2/3TP* | 2 Coax Mini 25 (7x33) BC, Foil, 95% TC Braid, Black, White + 22 (7x30) AWG TC 3 Pr, Outer Jacket TPE Black (*Not UL Rated) | 56 |
| | VA2/3* | 2 Coax 20 AWG Solid BC, Foil, 95% TC Braid, Black, White + 22 (7x30) AWG TC 3 Pr, Outer Jacket TPE Black (*Not UL Rated) | 57 |
| | VA2/4* | 2 Coax 20 AWG Solid BC, Foil, 95% TC Braid, Black, White + 22 (7x30) AWG TC 4 Pr, Outer Jacket TPE Black (*Not UL Rated) | 57 |
| | VA2/5* | 2 Coax 20 AWG Solid BC, Foil, 95% TC Braid, Black, White + 22 (7x30) AWG TC 5 Pr, Outer Jacket TPE Black (*Not UL Rated) | 57 |
| Low Skew Video Cable | | | |
| E3842S | E1842S | 4 UTP 24 AWG Solid BC 2.2nS/100m, PVC Green CMP/Maroon CMR | — |
| E3843S | E1843S | 4 UTP 23 AWG Solid BC 2.2nS/100m, PVC Green CMP/Maroon CMR | — |
| CCTV - Coax | | | |
| 495035 | 395011 | RG 6 18 AWG Solid BC, 95% BC Braid, PVC Natural CMP/Black or White CMR | — |
| 495028 | C1142 | RG 59 20 AWG Solid BC, 95% BC Braid, PVC Natural CMP/Black CM | — |
| | C8025 | Siamese RG 59 22 AWG BC, 95% BC Braid + 22 (7x30) AWG, Foil, PVC Black CM | — |
| C8030 | C8028 | Siamese RG 59 20 AWG Solid BC, 95% BC Braid + 18 (7x26) AWG UTP, PVC Natural CMP/Black CM | — |
| 50 Ω Coax | | | |
| | C5779 | 50 Ω RG 58 20 (19x32) AWG TC, Bonded Foil, 81% TC Braid, PVC Gray CM | — |

Automation & Lighting Control Cable

The cabling backbone of any automation and lighting control system must meet an exceptionally high performance level to ensure that the system operates reliably and at full data rates. Produced in a variety of specialized and general purpose designs, Gepco® Brand automation and lighting control cables deliver solutions for a multitude of cross-platform and manufacturer-specific standards and systems. As with all other Gepco Brand cables, each cable is a leading-edge design and features comprehensive quality verification to deliver the foundation and bandwidth for commercial automation and control system integration.

| Plenum Cable Solution | Non-Plenum Cable Solution | Description | Page |
|------------------------------------|---------------------------|---|------|
| Digital Media Cables | | | |
| CT504/SDMP | CT504/SDM | Multimedia Cat 5e Cable for Use with Crestron® Systems - 24 AWG BC 4 Pr, Foil Shield, PVC Blue, White or Black CMP/PVC Blue, White or Black CMR | 98 |
| CT104/SDMP | CT104/SDM | Multimedia Cat 6A Cable for Use with Crestron® Systems - 23 AWG BC 4 Pr, Foil Shield, PVC Blue, White or Black CMP/PVC Blue, White or Black CMR | 98 |
| Automation Control Cables | | | |
| 18/22AXLP | 18/22AXL | For Use with AMX® Systems - 22 (7x30) AWG BC 1 Pr, Foil Shield + 18 (7x26) AWG BC 1 Pr, Unshielded, PVC Black CMP/Black CL3R/FT-4 | 101 |
| 18/22CRTP | 18/22CRT | For Use with Crestron® Systems - 22 (7x30) AWG BC 1 Pr, Foil Shield + 18 (7x26) AWG BC 1 Pr, Unshielded, PVC Blue with Yellow Stripe CMP/CL3R,FT-4 | 100 |
| | 18/22CCT | Hybrid Cables for Use with Crestron® Systems - 1 18/22CRT + 1 Cat 5e, PVC Teal with Red Stripe CL3/FT-4 | 100 |
| | 18/22CCD | Hybrid Cables for Use with Crestron® Systems - 1 18/22CRT + 2 Cat 5e, PVC Teal with Black Stripe CL3/FT-4 | 100 |
| | 18/22CCQ | Hybrid Cables for Use with Crestron® Systems - 1 18/22CRT + 4 Cat 5e, PVC Teal with White Stripe CL3/FT-4 | 100 |
| | 18/22CDC | Hybrid Cables for Use with Crestron® Systems - 1 18/22CRT + 2 Cat 5e + 2 RG 6 Quad Coax, PVC Teal with Orange Stripe CL3/FT-4 | 100 |
| | 164NCAT | Keypad Volume Control - 16 (65x34) AWG BC 4 Cond + 1 Cat 5e, PVC Teal with Gray Stripe CM/CL3 | 101 |
| | 144NCAT | Keypad Volume Control - 14 AWG (105x34) BC 4 Cond + 1 Cat 5e, PVC Blue with Gray Stripe CM/CL3 | 101 |
| Lighting Control Cables | | | |
| | 164LTCH | Control Station Cable for Use with LiteTouch® Systems - 16 (65x34) AWG BC 4 Cond, PVC Orange CL3/PLTC | 104 |
| | 224SLTCH | Enclosure & Module Cable for Use with LiteTouch® Systems - 22 (7x30) AWG BC 4 Cond, Foil Shield, PVC Green CM/CL3 | 104 |
| | 182LUTDS | Power Cable for Use with Lutron® Homeworks® Systems - 18 (7x26) AWG BC 2 Cond, Foil Shield, PVC Blue with Pink Stripe TC | 102 |
| | 184LUTDS | Power Cable for Use with Lutron® Homeworks® Systems - 18 (7x26) AWG BC 4 Cond, Foil Shield, PVC Blue with White Stripe TC | 102 |
| | 18/22KYP | Keypad Cable for Use with Lutron® Homeworks® Systems - 22 (7x30) AWG BC 1 Pr, Foil Shield + 18 (16x30) AWG BC 1 Pr, PVC Blue with Yellow Stripe CM/CL3 | 102 |
| | 12/22LGRX | Control Cable for Use with Lutron® GRAFIK Eye® Systems - 22 (7x30) AWG BC 1 Pr, Foil Shield + 12 (19x25) AWG BC 1 Pr + Ground, PVC Blue with Blue Stripe CM/CL3 | 103 |
| | 18/22GFE | Control Cable for Use with Lutron® GRAFIK Eye® Systems - 22 (7x30) AWG BC 1 Pr, Foil Shield + 18 (16x30) AWG BC 1 Pr, PVC Blue with Green Stripe CM/CL3 | 103 |
| | 16/18SVA | Hybrid Cable for Use with Lutron® Sivoia® Systems - 18 (16x30) AWG BC 4 Cond, Foil Shield + 16 (26x30) AWG BC 2 Cond + Ground, PVC Blue with Red Stripe CM/CL3 | 103 |
| | 16/18SVAP | Hybrid Cable for Use with Lutron® Sivoia® Systems - 18 (16x30) AWG BC 4 Cond, Foil Shield + 16 (26x30) AWG BC 2 Cond + Ground, PVC Natural with Red Stripe CL3P/CMP | 103 |
| | 162VANT65 | Power & Data Cable for Use with Vantage® Systems - 16 (65x34) AWG BC 2 Cond, PVC Violet with Yellow Stripe CL3/CM/TC | 104 |
| DMX Lighting Control Cables | | | |
| | DLC124 | DMX Lighting Control - 24 (7x32) AWG TC 1 Pr, Foil, 90% TC Braid, TPE Black | 105 |
| | DLC224 | DMX512 Lighting Control - 24 (7x32) AWG TC 2 Pr, Foil, 90% TC Braid, TPE Black | 105 |
| | DLC122 | DMX Lighting Control - 22 (7x30) AWG TC 1 Pr, Foil, 90% TC Braid, PU Black | 105 |
| | DLC222 | DMX512 Lighting Control - 22 (7x30) AWG TC 2 Pr, Foil, 90% TC Braid, PU Black | 105 |

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Powered Cable

Through research and technology, Gepco provides a portable, all-in-one solution for applications requiring audio or data along with power while protecting the signal from noise. Gepco® Brand RunONE™ Powered Cables combine audio and power, along with optional data, under a single durable, yet flexible jacket. Saving time and hassle by allowing the user to replace multiple cables with a single, neat solution, each RunONE cable combines power with two, eight or 12 channels of 110 Ω balanced audio for line level, mic level or digital AES signals and can be used for self-powered speakers, staging applications and DMX lighting control.

| Cable Solution | Description | Page |
|-----------------------------|---|----------|
| Powered Cable - Bulk | | |
| PA2 | 14 (41x30) AWG BC Power + 2 Pr 24 (7x32) AWG TC AES/EBU Audio, PVC Black AWM 2464 | 108, 109 |
| PA8 | 14 (41x30) AWG BC Power + 8 Pr 24 (7x32) AWG TC AES/EBU Audio, PVC Black AWM 2464 | 108, 109 |
| PA12 | 14 (41x30) AWG BC Power + 12 Pr 24 (7x32) AWG TC AES/EBU Audio, PVC Black AWM 2464 | 108, 109 |
| PA2C | 14 (41x30) AWG BC Power + 2 Pr 24 (7x32) AWG TC AES/EBU Audio + 2 Cat 5e, PVC Black AWM 2464 | 108, 109 |
| PA12C | 14 (41x30) AWG BC Power + 12 Pr 24 (7x32) AWG TC AES/EBU Audio + 2 Cat 5e, PVC Black AWM 2464 | 108, 109 |
| PA2T | 12 (105x32) AWG BC Power + 2 Pr 24 (7x32) AWG TC AES/EBU Audio, PVC Black AWM 2464 | |



Appendix A: Color Codes

Color Code Chart 1 - Pair Colors

| Pair Number | Color | Pair Number | Color | Pair Number | Color | Pair Number | Color |
|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
| 1 | Brown | 9 | White | 17 | Violet | 25 | Green |
| 2 | Red | 10 | Black | 18 | Gray | 26 | Blue |
| 3 | Orange | 11 | Brown | 19 | White | 27 | Violet |
| 4 | Yellow | 12 | Red | 20 | Black | 28 | Gray |
| 5 | Green | 13 | Orange | 21 | Brown | 29 | White |
| 6 | Blue | 14 | Yellow | 22 | Red | 30 | Black |
| 7 | Violet | 15 | Green | 23 | Orange | 31 | Brown |
| 8 | Gray | 16 | Blue | 24 | Yellow | 32 | Red |

Color Code Chart 2 - Pair Colors

| Pair Number | Color | Pair Number | Color | Pair Number | Color | Pair Number | Color |
|-------------|--------------------------|-------------|--------------------------|-------------|---------------------------|-------------|-------------------------------|
| 1 | Black Paired with Red | 11 | Red Paired with Yellow | 20 | White Paired with Yellow | 29 | Purple Paired with Orange |
| 2 | Black Paired with White | 12 | Red Paired with Brown | 21 | White Paired with Brown | 30 | Purple Paired with Red |
| 3 | Black Paired with Green | 13 | Red Paired with Orange | 22 | White Paired with Orange | 31 | Purple Paired with White |
| 4 | Black Paired with Blue | 14 | Green Paired with White | 23 | Blue Paired with Yellow | 32 | Purple Paired with Dark Green |
| 5 | Black Paired with Yellow | 15 | Green Paired with Blue | 24 | Blue Paired with Brown | 33 | Purple Paired with Light Blue |
| 6 | Black Paired with Brown | 16 | Green Paired with Yellow | 25 | Blue Paired with Orange | 34 | Purple Paired with Yellow |
| 7 | Black Paired with Orange | 17 | Green Paired with Brown | 26 | Brown Paired with Yellow | 35 | Purple Paired with Brown |
| 8 | Red Paired with White | 18 | Green Paired with Orange | 27 | Brown Paired with Orange | 36 | Purple Paired with Black |
| 9 | Red Paired with Green | 19 | White Paired with Blue | 28 | Orange Paired with Yellow | 37 | Gray Paired with White |
| 10 | Red Paired with Blue | | | | | | |

Color Code Chart 3 - Pair Colors

| Pair Number | Color | Pair Number | Color | Pair Number | Color |
|-------------|-------------------------------|-------------|---------------------------------|-------------|---------------------------------|
| 1 | Black Paired with Black/White | 5 | Brown Paired with White/Brown | 9 | Purple Paired with White/Purple |
| 2 | White Paired with White/Black | 6 | Blue Paired with White/Blue | 10 | Gray Paired with White/Gray |
| 3 | Red Paired with White/Red | 7 | Orange Paired with White/Orange | 11 | Pink Paired with White/Pink |
| 4 | Green Paired with White/Green | 8 | Yellow Paired with White/Yellow | 12 | Tan Paired with White/Tan |
| | | | | Plus 1 | Green/Yellow |

Color Code Chart 4 - Pair Colors

| Pair Number | Color | Pair Number | Color | Pair Number | Color |
|-------------|--------|-------------|-------|-------------|-------------|
| 1 | Blue | 5 | Slate | 9 | Yellow |
| 2 | Orange | 6 | White | 10 | Violet |
| 3 | Green | 7 | Red | 11 | Pink (Rose) |
| 4 | Brown | 8 | Black | 12 | Aqua |

Color Code Chart 5 - Jacket Colors

| Jacket Color Code Number | Color | Jacket Color Code Number | Color |
|--------------------------|--------|--------------------------|--------|
| 0 | Black | 5 | Green |
| 1 | Brown | 6 | Blue |
| 2 | Red | 7 | Violet |
| 3 | Orange | 8 | Gray |
| 4 | Yellow | 9 | White |

Appendix B: Wire Gauge Specifications

| AWG | Strand | Approx. O.D. | | Circular ML Area | Weight | | DCR Ω/Mft |
|-----|--------|--------------|------|------------------|---------|-------|-----------|
| | | Inches | mm | | Lbs/Mft | kg/km | |
| 40 | Solid | .003 | .08 | 9.61 | .030 | .04 | 1048.85 |
| 39 | Solid | .004 | .09 | 12.20 | .038 | .06 | 831.68 |
| 38 | Solid | .004 | .10 | 15.72 | .048 | .07 | 659.73 |
| 37 | Solid | .005 | .11 | 19.83 | .061 | .09 | 523.00 |
| 36 | Solid | .005 | .13 | 25.00 | .076 | .11 | 414.84 |
| 36 | 7/44 | .006 | .15 | 28.00 | .085 | .12 | 378.82 |
| 35 | Solid | .006 | .14 | 31.52 | .095 | .14 | 329.03 |
| 34 | Solid | .006 | .16 | 39.75 | .120 | .18 | 260.91 |
| 34 | 7/42 | .007 | .19 | 43.75 | .132 | .19 | 238.23 |
| 33 | Solid | .007 | .18 | 50.13 | .152 | .23 | 206.88 |
| 32 | Solid | .008 | .20 | 63.21 | .191 | .28 | 164.07 |
| 32 | 7/40 | .008 | .20 | 67.27 | .203 | .30 | 149.84 |
| 32 | 19/44 | .009 | .22 | 76.00 | .230 | .34 | 139.57 |
| 31 | Solid | .009 | .23 | 79.70 | .241 | .36 | 130.13 |
| 30 | Solid | .010 | .25 | 100.50 | .304 | .45 | 103.19 |
| 30 | 7/38 | .012 | .30 | 112.00 | .339 | .50 | 94.25 |
| 30 | 19/42 | .012 | .30 | 118.75 | .359 | .53 | 87.77 |
| 29 | Solid | .011 | .29 | 126.70 | .384 | .57 | 81.85 |
| 28 | Solid | .013 | .32 | 159.80 | .484 | .72 | 64.90 |
| 28 | 7/36 | .015 | .38 | 141.75 | .529 | .78 | 59.26 |
| 28 | 19/40 | .016 | .40 | 182.59 | .553 | .82 | 55.20 |
| 27 | Solid | .014 | .36 | 201.50 | .610 | .91 | 51.47 |
| 27 | 7/35 | .018 | .45 | 219.52 | .664 | .98 | 47.00 |
| 26 | Solid | .016 | .40 | 253.00 | .769 | 1.14 | 40.81 |
| 26 | 19/38 | .020 | .50 | 304.00 | .920 | 1.36 | 34.72 |
| 26 | 7/34 | .019 | .48 | 277.83 | .841 | 1.25 | 37.27 |
| 25 | Solid | .018 | .46 | 320.40 | .970 | 1.44 | 32.37 |
| 25 | 7/33 | .021 | .53 | 343.00 | 1.113 | 1.66 | 29.55 |
| 24 | Solid | .020 | .51 | 404.00 | 1.223 | 1.82 | 25.67 |
| 24 | 7/32 | .024 | .60 | 448.00 | 1.356 | 2.01 | 23.44 |
| 24 | 10/34 | .023 | .58 | 396.90 | 1.201 | 1.78 | 26.09 |
| 24 | 19/36 | .024 | .60 | 475.00 | 1.430 | 2.12 | 21.83 |
| 24 | 41/40 | .023 | .58 | 384.40 | 1.160 | 1.72 | 25.58 |
| 23 | Solid | .023 | .57 | 511.50 | 1.542 | 2.29 | 20.36 |
| 22 | Solid | .025 | .64 | 640.40 | 1.945 | 2.89 | 16.14 |
| 22 | 7/30 | .030 | .76 | 700.00 | 2.120 | 3.15 | 14.74 |
| 22 | 19/34 | .031 | .78 | 754.11 | 2.280 | 3.39 | 13.73 |
| 22 | 26/36 | .030 | .76 | 650.00 | 1.970 | 2.93 | 15.96 |
| 21 | Solid | .029 | .72 | 812.10 | 2.452 | 3.65 | 12.80 |
| 20 | Solid | .032 | .81 | 1,020.0 | 3.092 | 4.60 | 10.15 |
| 20 | 7/28 | .038 | .96 | 1,111.0 | 3.490 | 5.19 | 9.27 |
| 20 | 10/30 | .035 | .88 | 1,000.0 | 3.025 | 4.50 | 10.32 |
| 20 | 19/32 | .037 | .93 | 1,216.0 | 3.680 | 5.47 | 8.64 |
| 20 | 26/34 | .036 | .91 | 1,031.9 | 3.120 | 4.64 | 10.03 |
| 20 | 41/36 | .036 | .91 | 1,025.0 | 3.100 | 4.61 | 10.12 |
| 19 | Solid | .040 | .91 | 1,200.0 | 3.899 | 5.80 | 8.05 |
| 18 | Solid | .040 | 1.02 | 1,620.0 | 4.917 | 7.32 | 6.39 |
| 18 | 7/26 | .048 | 1.21 | 1,759.60 | 5.360 | 7.97 | 5.83 |
| 18 | 16/30 | .047 | 1.19 | 1,600.0 | 4.840 | 7.20 | 6.45 |

| AWG | Strand | Approx. O.D. | | Circular ML Area | Weight | | DCR Ω/Mft |
|-----|---------|--------------|-------|------------------|---------|--------|-----------|
| | | Inches | mm | | Lbs/Mft | kg/km | |
| 18 | 19/30 | .049 | 1.24 | 1,900.0 | 5.750 | 8.55 | 5.43 |
| 18 | 41/34 | .047 | 1.19 | 1,627.3 | 4.920 | 7.32 | 6.36 |
| 18 | 65/36 | .047 | 1.19 | 1,625.0 | 4.910 | 7.30 | 6.38 |
| 17 | Solid | .045 | 1.15 | 2,050.0 | 6.200 | 9.23 | 5.06 |
| 16 | Solid | .051 | 1.29 | 2,583.0 | 7.818 | 11.63 | 4.02 |
| 16 | 7/24 | .060 | 1.52 | 2,828.0 | 8.560 | 12.73 | 3.67 |
| 16 | 65/34 | .059 | 1.49 | 2,579.9 | 7.810 | 11.62 | 4.01 |
| 16 | 26/30 | .059 | 1.49 | 2,600.0 | 7.870 | 11.71 | 3.97 |
| 16 | 19/29 | .058 | 1.47 | 2,426.3 | 7.350 | 10.93 | 4.31 |
| 16 | 105/36 | .059 | 1.49 | 2,625.0 | 7.950 | 11.83 | 3.95 |
| 15 | Solid | .057 | 1.45 | 3,260.0 | 9.858 | 14.67 | 3.18 |
| 14 | Solid | .064 | 1.63 | 4,107.0 | 12.43 | 18.50 | 2.53 |
| 14 | 7/22 | .073 | 1.85 | 4,480.0 | 13.56 | 20.17 | 2.31 |
| 14 | 19/27 | .073 | 1.85 | 3,830.4 | 11.59 | 17.24 | 2.71 |
| 14 | 41/30 | .073 | 1.85 | 4,100.0 | 12.40 | 18.45 | 2.52 |
| 14 | 105/34 | .073 | 1.85 | 4,167.5 | 12.61 | 18.76 | 2.48 |
| 13 | Solid | .072 | 1.83 | 5,178.0 | 15.68 | 23.33 | 2.00 |
| 12 | Solid | .081 | 2.05 | 6,530.0 | 19.77 | 29.42 | 1.59 |
| 12 | 7/20 | .096 | 2.43 | 7,168.0 | 21.69 | 32.27 | 1.45 |
| 12 | 19/25 | .093 | 2.36 | 6,087.6 | 18.43 | 27.42 | 1.70 |
| 12 | 65/30 | .095 | 2.41 | 6,500.0 | 19.66 | 29.25 | 1.59 |
| 12 | 165/34 | .095 | 2.41 | 6,548.9 | 19.82 | 29.49 | 1.58 |
| 11 | Solid | .091 | 2.30 | 8,234.0 | 24.92 | 37.08 | 1.26 |
| 10 | Solid | .102 | 2.60 | 10,380.0 | 31.43 | 40.77 | 1.00 |
| 10 | 37/26 | .115 | 2.92 | 9,353.6 | 28.31 | 42.12 | 1.10 |
| 10 | 49/27 | .116 | 2.94 | 9,878.4 | 29.89 | 44.47 | 1.05 |
| 10 | 105/30 | .116 | 2.94 | 10,530.0 | 31.76 | 47.26 | 0.98 |
| 8 | 49/25 | .147 | 3.73 | 15,699.9 | 47.53 | 70.72 | 0.66 |
| 8 | 133/29 | .147 | 3.73 | 16,984.1 | 51.42 | 76.51 | 0.62 |
| 8 | 655/36 | .147 | 3.73 | 16,625.0 | 49.58 | 73.78 | 0.63 |
| 6 | 133/27 | .184 | 4.67 | 26,812.8 | 81.14 | 120.74 | 0.39 |
| 6 | 259/30 | .184 | 4.67 | 25,900.0 | 78.35 | 116.59 | 0.40 |
| 6 | 1050/36 | .184 | 4.67 | 26,250.0 | 79.47 | 118.25 | 0.40 |
| 4 | 133/25 | .232 | 5.89 | 42,613.0 | 129.01 | 191.98 | 0.24 |
| 4 | 259/27 | .232 | 5.89 | 52,214.4 | 158.02 | 235.15 | 0.20 |
| 4 | 1666/36 | .232 | 5.89 | 41,650.0 | 126.10 | 187.64 | 0.25 |
| 2 | 133/23 | .292 | 7.41 | 67,936.4 | 205.62 | 305.98 | 0.39 |
| 2 | 259/26 | .292 | 7.41 | 65,475.2 | 198.14 | 294.85 | 0.16 |
| 2 | 665/30 | .292 | 7.41 | 66,500.0 | 201.16 | 299.34 | 0.16 |
| 1 | 817/30 | .328 | 8.33 | 81,700.0 | 247.10 | 367.71 | 0.13 |
| 1 | 2019/34 | .328 | 8.33 | 83,706.2 | 253.29 | 376.92 | 1.30 |
| 1/0 | 133/21 | .368 | 9.34 | 108,035.9 | 327.05 | 486.68 | 0.10 |
| 1/0 | 259/24 | .368 | 9.34 | 104,636.0 | 316.76 | 471.37 | 0.10 |
| 2/0 | 133/20 | .414 | 10.51 | 136,192.0 | 412.17 | 613.35 | 0.08 |
| 2/0 | 259/23 | .414 | 10.51 | 132,297.2 | 400.41 | 595.85 | 0.08 |
| 3/0 | 259/22 | .464 | 11.78 | 163,195.0 | 501.70 | 746.58 | 0.06 |
| 3/0 | 427/24 | .464 | 11.78 | 172,508.0 | 522.20 | 777.08 | 0.06 |
| 4/0 | 259/21 | .522 | 13.25 | 210,385.7 | 638.88 | 950.71 | 0.05 |
| 4/0 | 427/23 | .522 | 13.25 | 218,111.6 | 660.01 | 982.16 | 0.05 |

Appendix C: Conduit Capacity Chart

| Conduit Capacity Chart | | | | | | | | | | | |
|--------------------------------|----------------------------|---|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Conduit Trade Size | | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 3 1/2 | 4 |
| I.D. Inches | | 0.622 | 0.824 | 1.049 | 1.380 | 1.610 | 2.067 | 2.731 | 3.356 | 3.834 | 4.334 |
| Internal Area, In ² | | 0.304 | 0.533 | 0.864 | 1.496 | 2.036 | 3.356 | 5.858 | 8.846 | 11.545 | 14.753 |
| 1 Conductor (53% fill) | | 0.161 | 0.283 | 0.458 | 0.793 | 1.079 | 1.778 | 3.105 | 4.688 | 6.119 | 7.819 |
| 2 Conductors (31% fill) | | 0.094 | 0.165 | 0.268 | 0.464 | 0.631 | 1.040 | 1.816 | 2.742 | 3.579 | 4.573 |
| Conductors (40% fill) | | 0.122 | 0.213 | 0.346 | 0.598 | 0.814 | 1.342 | 2.343 | 3.538 | 4.618 | 5.901 |
| Cable OD Inches | Cable Area In ² | Numbers listed below are based on the 2008 NEC (40% fill) for 3 or more non-lead covered cables. | | | | | | | | | |
| 0.100 | 0.008 | 15 | 26 | 43 | 76 | 104 | 170 | 244 | 375 | 504 | 648 |
| 0.125 | 0.012 | 9 | 17 | 27 | 48 | 66 | 109 | 156 | 240 | 322 | 414 |
| 0.150 | 0.018 | 6 | 11 | 19 | 33 | 46 | 75 | 108 | 166 | 224 | 288 |
| 0.175 | 0.024 | 5 | 8 | 14 | 24 | 34 | 55 | 79 | 122 | 164 | 211 |
| 0.200 | 0.031 | 3 | 6 | 10 | 19 | 26 | 42 | 61 | 93 | 126 | 162 |
| 0.225 | 0.040 | 3 | 5 | 8 | 15 | 20 | 33 | 48 | 74 | 99 | 128 |
| 0.250 | 0.049 | 1 | 4 | 6 | 12 | 16 | 27 | 39 | 60 | 80 | 103 |
| 0.275 | 0.059 | 1 | 3 | 5 | 10 | 13 | 22 | 32 | 49 | 66 | 85 |
| 0.300 | 0.071 | 1 | 2 | 4 | 8 | 11 | 18 | 27 | 41 | 56 | 72 |
| 0.325 | 0.083 | 1 | 1 | 4 | 7 | 9 | 16 | 23 | 35 | 47 | 61 |
| 0.350 | 0.096 | 1 | 1 | 3 | 6 | 8 | 13 | 19 | 30 | 41 | 52 |
| 0.375 | 0.110 | 1 | 1 | 3 | 5 | 7 | 12 | 17 | 26 | 35 | 46 |
| 0.400 | 0.126 | 1 | 1 | 2 | 4 | 6 | 10 | 15 | 23 | 31 | 40 |
| 0.425 | 0.142 | 1 | 1 | 1 | 4 | 5 | 9 | 13 | 20 | 27 | 35 |
| 0.450 | 0.159 | 1 | 1 | 1 | 3 | 5 | 8 | 12 | 18 | 24 | 32 |
| 0.475 | 0.177 | 0 | 1 | 1 | 3 | 4 | 7 | 10 | 17 | 22 | 28 |
| 0.500 | 0.196 | 0 | 1 | 1 | 3 | 4 | 6 | 9 | 15 | 20 | 25 |
| 0.525 | 0.216 | 0 | 1 | 1 | 2 | 3 | 6 | 8 | 13 | 18 | 23 |
| 0.550 | 0.238 | 0 | 1 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 |
| 0.575 | 0.260 | 0 | 1 | 1 | 1 | 3 | 5 | 7 | 11 | 15 | 19 |
| 0.600 | 0.283 | 0 | 0 | 1 | 1 | 2 | 4 | 6 | 10 | 14 | 18 |
| 0.625 | 0.307 | 0 | 0 | 1 | 1 | 2 | 4 | 6 | 9 | 12 | 16 |
| 0.650 | 0.332 | 0 | 0 | 1 | 1 | 1 | 4 | 5 | 8 | 11 | 15 |
| 0.675 | 0.358 | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 8 | 11 | 14 |
| 0.700 | 0.385 | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 7 | 10 | 13 |
| 0.725 | 0.413 | 0 | 0 | 1 | 1 | 1 | 3 | 4 | 7 | 9 | 12 |
| 0.750 | 0.442 | 0 | 0 | 1 | 1 | 1 | 3 | 4 | 6 | 8 | 11 |
| 0.775 | 0.472 | 0 | 0 | 0 | 1 | 1 | 2 | 4 | 6 | 8 | 10 |
| 0.800 | 0.503 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 5 | 7 | 10 |
| 0.825 | 0.535 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 7 | 9 |
| 0.850 | 0.567 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 6 | 8 |
| 0.875 | 0.601 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 4 | 6 | 8 |
| 0.900 | 0.636 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 4 | 6 | 8 |
| 0.925 | 0.672 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 4 | 5 | 7 |
| 0.950 | 0.709 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 4 | 5 | 7 |
| 0.975 | 0.747 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 3 | 5 | 6 |
| 1.000 | 0.785 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 3 | 5 | 6 |
| 1.025 | 0.825 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 4 | 6 |
| 1.050 | 0.866 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 4 | 5 |
| 1.075 | 0.908 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 4 | 5 |

- Notice: 1. The reader is cautioned to consult the 2011 NEC for specific information regarding conduit fill.
 2. This Conduit Capacity Chart should only be used as a guide when attempting to estimate conduit fill.
 3. For additional information, the reader should refer to the 2011 National Electrical Code, Chapter 9.

Appendix D: Diameter of Cable Bundles

| Diameter of Cable Bundles | |
|---------------------------|--------|
| Number of Cables | Factor |
| 2 | 2.0 |
| 3 | 2.154 |
| 4 | 2.154 |
| 5 | 2.7 |
| 6 | 3.0 |
| 7 | 3.0 |
| 10 | 4.0 |
| 12 | 4.155 |
| 16 | 4.7 |
| 19 | 5.0 |
| 27 | 6.155 |
| 37 | 7.0 |
| 41 | 8.0 |
| 61 | 9.0 |

$$\text{O.D. of Cable Bundle} = \text{O.D. of Cable} \times \text{Factor}$$

For bundles not on above chart, use the following equation:

$$\text{O.D. of Cable Bundle} = 1.155 \times \text{O.D. of Cable} \times \sqrt{n}$$

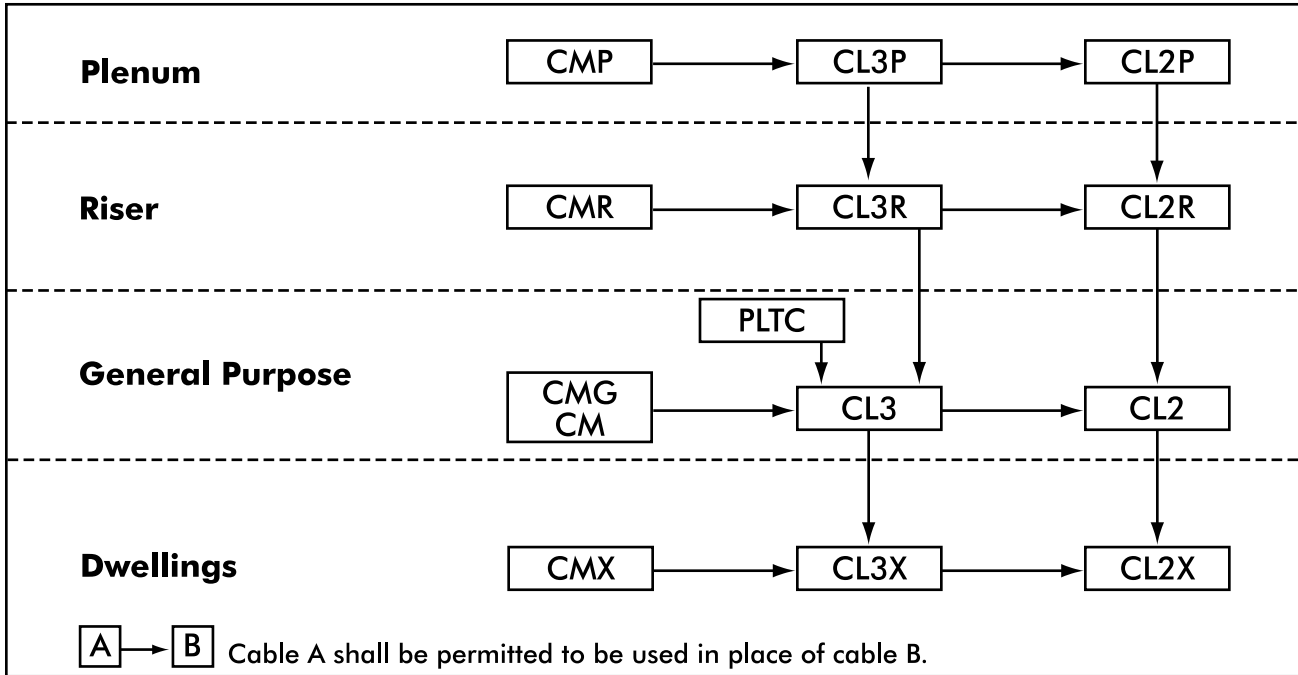
(where n is the number of cables)

These equations are only for cable bundles comprised of cables that have the same outer diameter.

The finished O.D. of the bundle is based upon the most efficient and compact grouping of the individual cables. This diameter can be larger if done incorrectly.

Note: These equations are only to be used to calculate diameter, not the maximum fill allowed in a conduit.

Appendix E: NEC Cable Substitution Hierarchy



Cable Uses and Permitted Substitutions

| Cable Type | Use | Permitted Substitutions |
|------------|---------------------------------------|--|
| CMP | Communications Plenum Cable | --- |
| CL3P | Class 3 Plenum Cable | CMP |
| CL2P | Class 2 Plenum Cable | CMP, CL3P |
| CMR | Communications Riser Cable | *CMP |
| CL3R | Class 3 Riser Cable | CMP, CL3P, CMR |
| CL2R | Class 2 Riser Cable | CMP, CL3P, CL2P, CMR, CL3R |
| PLTC | Power-Limited Tray Cable | --- |
| CMG | Communications Cable, General Purpose | *CMP, CMR |
| CM | Communications Cable, General Purpose | *CMP, CMR, CMG |
| CL3 | Class 3 Cable | CMP, CL3P, CMR, CL3R, CMG, CM, PLTC |
| CL2 | Class 2 Cable | CMP, CL3P, CL2P, CMR, CL3R, CL2R, CMG, CM, PLTC, CL3 |
| CMX | Communications Cable, Limited Use | *CMP, CMR, CMG, CM |
| CL3X | Class 3 Cable, Limited Use | CMP, CL3P, CMR, CL3R, CMG, CM, PLTC, CL3, CMX |
| CL2X | Class 2 Cable, Limited Use | CMP, CL3P, CL2P, CMR, CL3R, CL2R, CMG, CM, PLTC, CL3, CL2, CMX, CL3X |

* Substitution allowed by Article 800 only

Plenum - Cables installed in ducts, plenums, and other spaces used for environmental air.

Riser - Cables installed in vertical runs and penetrating more than one floor, or cables installed in vertical runs in a shaft.

General Purpose - For use in locations other than risers or plenums.

Dwellings - Cables for use in one, two or multi-family dwellings and in raceways.

Information is from Articles 800 and 725 of the 2011 National Electrical Code. Please consult these articles for details regarding specific applications.

Appendix F: BNC & RCA Connector Cross Reference

| BNC & RCA Connector Cross Reference | | | | | | |
|--|----------------|--------|----------|----------------|---------|-----------|
| Gepco® Brand Cable Part Number | BNC Connectors | | | RCA Connectors | | |
| | Kings® | ADC® | Gepco® | Kings® | ADC® | Canare® |
| SV253STR, SV254STR, SV255STR, SV256STR | 2065-11-9 | BNC-13 | BNC-XL-1 | 3345-3-9 | CRCA-13 | RCAP-C25F |
| SV253SR, SV254SR, SV255SR, SV256SR | 2065-29-9 | BNC-16 | N/A | 3345-4-9 | CRCA-16 | N/A |
| SV253SP, SV243SP, SV253SP | 2065-29-9 | BNC-16 | N/A | 3345-4-9 | CRCA-16 | N/A |
| RGB62 | 2065-29-9 | BNC-16 | N/A | 3345-4-9 | CRCA-16 | N/A |
| RGB62TS | 2065-29-9 | BNC-16 | N/A | 3345-4-9 | CRCA-16 | N/A |
| RGB644 | 2065-29-9 | BNC-16 | N/A | 3345-4-9 | CRCA-16 | N/A |
| RGB644TS | 2065-29-9 | BNC-16 | N/A | 3345-4-9 | CRCA-16 | N/A |
| RGB6C5, RGB6C52 | 2065-11-9 | BNC-13 | BNC-XL-1 | 3345-3-9 | CRCA-13 | RCAP-C25F |
| RGB6C5TS | 2065-29-9 | BNC-16 | N/A | 3345-4-9 | CRCA-16 | N/A |
| VA2/2TP, VA2/3TP | 2065-11-9 | BNC-13 | BNC-XL-1 | 3345-3-9 | CRCA-13 | RCAP-C25F |
| VA2/3, VA2/4, VA2/5 | 2065-2-9 | BNC-1 | BNC-XL-2 | 3345-1-9 | CRCA-1 | RCAP-C4F |
| VB1860/VB1890 | 2065-10-9 | BNC-8 | BNC-XL-3 | 3345-2-9 | CRCA-8 | RCAP-C53 |
| VB1890TS | 2065-10-9 | BNC-10 | BNC-XL-3 | 3345-2-9 | CRCA-8 | RCAP-C53 |
| VB2095 | 2065-2-9 | BNC-1 | BNC-XL-2 | 3345-1-9 | CRCA-1 | RCAP-C4F |
| V5020 | 755-114-9 | N/A | N/A | N/A | N/A | N/A |
| VC1460/VB1490TK | 2065-8-9 | BNC-25 | N/A | N/A | N/A | N/A |
| VC1895 | 2065-10-9 | BNC-8 | BNC-XL-3 | 3345-2-9 | CRCA-8 | RCAP-C53 |
| VC1895TS | 2065-10-9 | BNC-10 | BNC-XL-3 | 3345-2-9 | CRCA-8 | RCAP-C53 |
| VC2095 Series (Non-Plenum) | 2065-2-9 | BNC-1 | BNC-XL-2 | 3345-1-9 | CRCA-1 | RCAP-C4F |
| VC2095TS | 2065-2-9 | BNC-6 | BNC-XL-2 | 3345-1-9 | CRCA-1 | RCAP-C4F |
| VDM230, VS5230 | 2065-11-9 | BNC-13 | BNC-XL-1 | 3345-3-9 | CRCA-13 | RCAP-C25F |
| VDM250 | 2065-11-9 | BNC-13 | BNC-XL-1 | 3345-3-9 | CRCA-13 | RCAP-C25F |
| VDM250D | 2065-11-9 | BNC-13 | BNC-XL-1 | 3345-3-9 | CRCA-13 | RCAP-C25F |
| VDM260 | 2065-29-9 | BNC-16 | N/A | 3345-4-9 | CRCA-16 | N/A |
| VE61859M | 2065-2-9 | BNC-1 | BNC-XL-2 | 3345-1-9 | CRCA-1 | RCAP-C4F |
| VHD1100, VHD1100PEF | 2065-8-9 | BNC-25 | N/A | N/A | N/A | N/A |
| VHD1100F | N/A | N/A | BNC-XL-6 | N/A | N/A | N/A |
| VHD1100TK | 2065-8-9 | BNC-25 | N/A | N/A | N/A | N/A |
| VHD1300 | N/A | N/A | BNC-XL-6 | N/A | N/A | N/A |
| VHD2001M | 2065-10-9 | BNC-8 | BNC-XL-3 | N/A | N/A | N/A |
| VHD2000M | 2065-2-9 | BNC-1 | BNC-XL-2 | 3345-1-9 | CRCA-1 | RCAP-C4F |
| VHD7000 | 2065-12-9 | BNC-27 | N/A | N/A | N/A | N/A |
| VJ59U | 2065-7-9 | BNC-2 | N/A | N/A | N/A | N/A |
| VP618M | 2065-6-9 | BNC-4 | N/A | N/A | N/A | RCAP-C77 |
| VP618PE | 2065-6-9 | BNC-4 | N/A | N/A | N/A | RCAP-C77 |
| VPM2000 | 2065-2-9 | BNC-1 | BNC-XL-2 | 3345-1-9 | CRCA-1 | RCAP-C4F |
| VPM2000TS/TK | 2065-2-9 | BNC-6 | BNC-XL-2 | 3345-1-9 | N/A | RCAP-C4F |
| VRC13 | 2065-2-9 | BNC-1 | BNC-XL-2 | 3345-1-9 | CRCA-1 | RCAP-C4F |
| VRC618 | 2065-2-9 | BNC-1 | N/A | 3345-1-9 | CRCA-1 | RCAP-C4F |
| VS102000, VS52000 | 2065-2-9 | BNC-1 | BNC-XL-2 | 3345-1-9 | CRCA-1 | RCAP-C4F |
| VS102001 | 2065-10-9 | BNC-8 | BNC-XL-3 | 3345-2-9 | CRCA-8 | RCAP-C53 |
| VS10230, VS12230, VS16230 | 2065-11-9 | BNC-13 | BNC-XL-1 | 3345-3-9 | CRCA-13 | RCAP-C25F |
| VS32001, VS42001, VS52001 | 2065-10-9 | BNC-8 | BNC-XL-3 | 3345-2-9 | CRCA-8 | RCAP-C53 |
| VS57000 | 2065-12-9 | BNC-27 | N/A | N/A | N/A | N/A |
| VSD2001, VSD2001PEF | 2065-10-9 | BNC-8 | BNC-XL-3 | 3345-2-9 | CRCA-8 | RCAP-C53 |
| VSD2001TS | 2065-10-9 | BNC-10 | BNC-XL-3 | 3345-2-9 | CRCA-8 | RCAP-C53 |

Appendix F: DIN Connector Cross Reference

| DIN Connector Cross Reference | | |
|--|-----------------|-------------------------|
| Gepco® Brand Cable Part Number | Kings® | Gepco® |
| VDM230, VDM230TS, VDM250, VDM250D, VS5230, VS10230, VS12230, VS16230 | 0345-E00-C7202N | DIN1023-23 (9911-NS731) |
| VDM260 | N/A | DIN1023-26 (9911-NS700) |
| VPM2000, VHD2000M, VS52000, VS102000 | 0345-E00-C7101N | N/A |

Kings is a registered trademark of Kings Electronics Company, Inc. ADC is a registered trademark of ADC Telecommunication, Inc. Canare is a registered trademark of Canare Electric Co., Ltd.

Appendix F: F-Type Connector Cross Reference

| F Connector Reference Chart | | | |
|---------------------------------|---------|---------|------|
| Gepeco® Brand Cable Part Number | AIM® | Canare® | ADC® |
| VA2/3, VA2/4, VA2/5 | 25-7030 | FP-C4F | CF-1 |
| VE61859M | N/A | FP-C4F | CF-1 |
| VHD2000M | N/A | FP-C4F | CF-1 |
| VHD1100, VHD1100TK, VHD1100PEF | 25-7190 | FP-C71 | N/A |
| VJ59U | 25-7030 | FP-C4 | N/A |
| VP618M | N/A | FP-C51 | N/A |
| VP618PE | N/A | FP-C51 | N/A |
| VPM2000 | 25-7030 | FP-C4F | CF-1 |
| VPM2000TS/TK | 25-7049 | N/A | N/A |
| VRC618, VRC13 | N/A | FP-C4F | CF-1 |
| VRC618, VRC13 | N/A | FP-C4F | CF-1 |
| VS102000, VS52000 | 25-7030 | FP-C4F | CF-1 |
| VS32001, VS42001, VS52001 | 25-7032 | FP-C53 | CF-8 |
| VSD2001, VSD2001PEF | 25-7032 | FP-C53 | CF-8 |
| VS102001 | 25-7032 | FP-C53 | CF-8 |
| VSD2001TS | 25-7047 | FP-C55 | N/A |
| VB2095 | 25-7030 | FP-C4F | CF-1 |
| VC2095 Series (Non-Plenum) | 25-7030 | FP-C4F | CF-1 |
| VC2095TS | 25-7049 | N/A | N/A |
| VB1860/VB1890 | 25-7032 | FP-C53 | CF-8 |
| VB1890TS | 25-7047 | FP-C55 | N/A |
| VB18Q | 25-7034 | N/A | N/A |
| VB18QTS | 25-7047 | N/A | N/A |
| VC1895 | 25-7032 | FP-C53 | CF-8 |
| VC1895TS | 25-7047 | FP-C55 | N/A |
| VB1460/VB1490TK | 25-7190 | FP-C71 | N/A |

Appendix F: Camera Cable Connector Cross Reference

| Triax Connector Reference Chart | | | | | | | | | | | |
|---------------------------------|---------------------------|-----------------------------|---------------------------|-----------------------------|--|----------|-------------------|-------------------------|---------------------------|--------|--------------|
| Gepeco Part Number | Kings® Part Numbers | | | | | | ADC® Part Numbers | | | | |
| | Male Tri-Loc® Cable Mount | Female Tri-Loc® Cable Mount | Male Tri-Loc® Panel Mount | Female Tri-Loc® Panel Mount | Female Tri-Loc® Panel Mount (rear mount) | Die | Tool | Male ProAx™ Cable Mount | Female ProAx™ Cable Mount | Die | Tool |
| LVT61811 | 7705-3 | 7703-3 | 7702-3 | 7702-6 | 7702-9 | KTH-2041 | KTH-1000 | TCP-C12 | TCJ-C12 | TD-C | WT-2 or WT-3 |
| LVT61859 | 7705-2 | 7703-2 | 7702-2 | 7702-5 | 7702-8 | KTH-2002 | KTH-1000 | TCP-B38 | TCJ-B38 | TD-BEF | WT-2 or WT-3 |
| LVT61859S | 7705-2 | 7703-2 | 7702-2 | 7702-5 | 7702-8 | KTH-2002 | KTH-1000 | TCP-B38 | TCJ-B38 | TD-BEF | WT-2 or WT-3 |
| VT61811 | 7705-1 | 7703-1 | 7702-1 | 7702-4 | 7702-7 | KTH-2040 | KTH-1000 | TCP-A12 | TCJ-A12 | TD-ADH | WT-2 or WT-3 |
| VT61811PE | 7705-1 | 7703-1 | 7702-1 | 7702-4 | 7702-7 | KTH-2040 | KTH-1000 | TCP-A12 | TCJ-A12 | TD-ADH | WT-2 or WT-3 |
| VT61811TK | 7705-6 | 7703-8 | 7702-14 | 7702-15 | N/A | KTH-2040 | KTH-1000 | TCP-D38 | TCJ-D38 | TD-ADH | WT-2 or WT-3 |
| VT61859 | 7705-2 | 7703-2 | 7702-2 | 7702-5 | 7702-8 | KTH-2002 | KTH-1000 | TCP-B38 | TCJ-B38 | TD-BEF | WT-2 or WT-3 |

Note: All ADC cable mount ProAx™ connectors can be converted to panel mount types with optional hardware.

| Lemo Hybrid Fiber Connector Reference Chart | | | | | | | |
|---|--------------------|-------------------|--------------------|--------------------|--------------------|------------------|------------------|
| Gepeco Part Number | Lemo® Part Numbers | | | | | | |
| | Cable Mount | | Panel Mount | | Fiber Contacts | | |
| | Plug | Socket | Plug | Socket | Socket (Round) | Plug | Socket |
| HDC920, HDC920R, HDC160 | FUW.3K.93C.TLMC96 | PUW.3K.93C.TLCC96 | FMW.3K.93C.TLMC96Z | PBW.3K.93C.TLCC96Z | PEW.3K.93C.TLCC96Z | PSS.F2.BB2.LCE30 | FFS.F2.BB2.LCE30 |
| HDC120P | FUW.3K.93C.TLMC12 | PUW.3K.93C.TLCC12 | — | — | — | PSS.F2.BB2.LCE30 | FFS.F2.BB2.LCE30 |

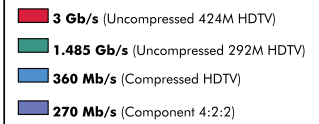
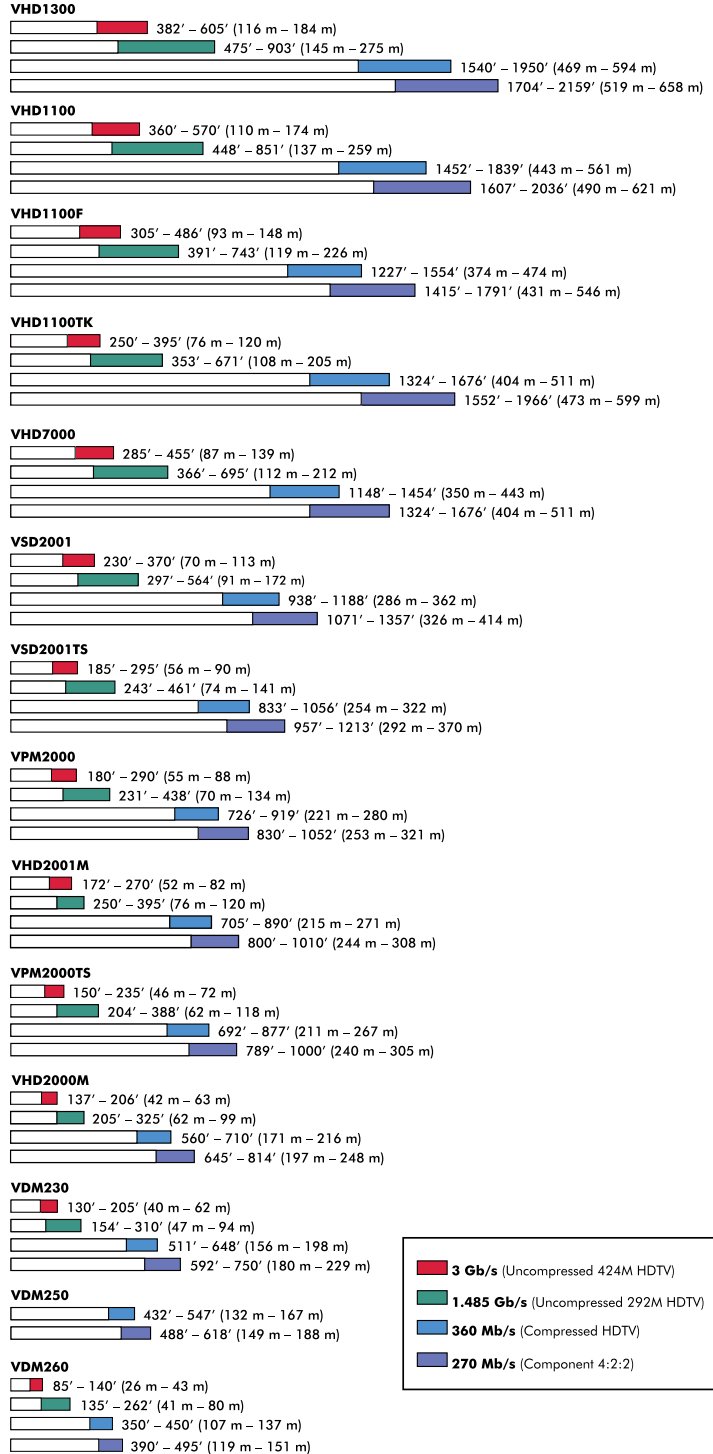
| Canare® Hybrid Fiber Connector Reference Chart | | | | |
|--|----------------------|--------|-------------|--------|
| Gepeco Part Number | Canare® Part Numbers | | | |
| | Cable Mount | | Panel Mount | |
| | Plug | Socket | Plug | Socket |
| HDC920, HDC920R | FCF | FCM | FCFRC | FCMRC |

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Appendix G: Serial Digital Coax Distances

Maximum values represent the approximate range at which the bit error rate “cliff region” will occur.

In every system the quality of the output pulse, the amount of loss that can be compensated for by the receiver, the number of passive connectors and patch points and the exact amount of cable loss will vary. Because of this, the exact maximum cable length possible will vary. The graphs to the right do not represent the exact cable length possible; they only serve as a guide in selecting the appropriate cable type. When installing a cable in a system and it is approaching its maximum range, it is highly recommended that individual system testing and research be done.



Appendix H: Glossary

Alum—Aluminum.

Alum/Polyester Tape—Conductive aluminum foil bonded to a non-conductive polyester tape. Provides for improved flex-life and allows for cables without pair jackets to have isolated shields.

Annealed Wire—Wire, which after final draw-down, has been heated and slowly cooled to remove the effects of cold working.

Attenuation—The decrease in magnitude of a wave as it travels through any transmitting medium, such as cable or circuitry. Attenuation is measured as a ratio or as the logarithm of a ratio (decibel).

AWG—American Wire Gauge. A wire diameter specification. The higher the AWG number, the smaller the wire diameter.

AWM—Designation for appliance wiring material.

Balanced Circuit—A circuit so arranged that the impressed voltages on each conductor of the pair are equal in magnitude but opposite in polarity with respect to ground.

Bandwidth—The difference between the upper and lower limits of a given band of frequencies. Expressed in Hertz.

BC—Bare copper.

BCCS—Bare copper clad steel.

Bel—A unit that represents the logarithm of the ratio of two levels. The number of bels is equal to the logarithm₁₀ of (P1/P2) 2 logarithm₁₀ (11/12). See dB.

Braid—A textile or metallic group of filaments interwoven into a cylindrical structure to form a covering over one or more wires or flattened into a strap.

Capacitance—Storage of electrically separated charges between two plates having different potentials. The value depends largely on the surface area of the plates and the distance between them. The unit of measurement is expressed in farads.

Capacitance, Mutual—The capacitance between two conductors with all other conductors, including shield, short circuited to ground.

Cellular FEP—Expanded or “foam” FEP (fluorinated ethylene-propylene) consisting of individual closed cells of inert gas suspended in an FEP medium. This results in a reduction of the dielectric constant and an increase in the velocity of propagation percentage.

Cellular Polyethylene—Expanded or “foam” polyethylene, consisting of individual closed cells of inert gas suspended in a polyethylene medium, resulting in a reduction of dielectric constant and an increase in velocity of propagation (%).

Circular Mil—The area of a circle one mil (.001”) in diameter; 7.845 x 107 sq. in. Used in expressing wire cross sectional area.

Coax—coaxial.

Coaxial Cable—A cable consisting of two cylindrical conductors with a common axis, separated by a dielectric.

Common Mode—Noise, caused by a difference in “ground potential”. By grounding at either end rather than both (usually grounded at one source) one can reduce this interference.

Compound—An insulating or jacketing material made by mixing two or more ingredients.

Conductor—A material suitable for carrying electrical current.

Crosstalk—A type of interference caused by signals from one circuit being coupled into adja-

cent circuits.

dB—Decibel(s).

DCR—Direct current resistance.

Dielectric—Any insulating material between two conductors which permits electrostatic attraction and repulsion to take place across it.

Dielectric Constant—Also called permittivity. That property of a dielectric which determines the amount of electrostatic energy that can be stored by the material when a given voltage is applied to it. Actually, the ratio of the capacitance of a capacitor using the dielectric to the capacitance of an identical capacitor using a vacuum as a dielectric.

Elastomer—A class of long chain polymers capable of being crosslinked to produce elastic compounds, e.g., polychloroprene and ethylene propylene rubber.

Electromagnetic—Referring to the combined electric and magnetic fields associated with movements of electrons through conductors.

EMI—Electromagnetic interference.

Farad—Unit of capacitance whereby a charge of one coulomb produces a one volt potential difference.

FEP—(fluorinated ethylene-propylene) A fluorocarbon extrudable resin with good electrical insulating properties and chemical and heat resistance.

Flex-life—The measurement of the ability of a conductor or cable to withstand repeated bending.

ft—Feet.

GEP-FLEX—Gepco® Brand TPE jacket compound that is extra-flexible, durable, and UL Listed. Remains flexible in high/low temperature environments.

Halar®—Registered trademark, Ausimont, U.S.A., Inc.

Impedance—The total opposition a circuit, cable, or component offers to alternating current. It includes both resistance and reactance and is generally expressed in ohms.

Impedance, Characteristic—In a transmission cable of infinite length, the ratio of the applied voltage to the resultant current at the point the voltage is applied. Or, the impedance which makes a transmission cable seem infinitely long, when connected across the cable’s output terminals. For a wave guide, it is the ratio of rms voltage to the total rms longitudinal current at certain points on a diameter, when the wave guide is match-terminated.

Insertion Loss—A measure of the attenuation of a device by determining the output of a system before and after the device is inserted into the system.

Insulation—A material having good dielectric properties which is used to separate close electrical components, such as cable conductors and circuit components.

Jacket—Pertaining to wire and cable, the outer sheath which protects against environment and may also provide additional insulation.

km—Kilometer.

m—Meters.

M—1000.

MHz—Megahertz (one million cycles per second). Formerly Mc.

mm—Millimeter.

Mylar®—Registered trademark of DUPONT TEIJIN

FILMS for a polyester material.

Noise—Any spurious or unwanted signal in a cable or electrical circuit, e.g., EMI, RFI, tape, or amplifier thermal noise.

OHM—The term used to express resistance in an electrical circuit where the resistance is directly proportional to the voltage and inversely proportional to the current.

PE—Polyethylene.

pF—Pico farad(s).

Plenum—The air return path of a central air handling system, either duct work or open space over a dropped ceiling.

Polyethylene—A family of insulations derived from the polymerization of ethylene gas and characterized by outstanding electrical properties, including high I.R., low dielectric constant, and low dielectric loss across the frequency spectrum. Mechanically rugged, it resists abrasion and cold flow.

Polypropylene—A thermoplastic similar to polyethylene but stiffer and having a higher softening point (temperature).

Polyurethane—A family of flexible, abrasion-resistant polymers used for harsh environment cables.

Polyvinylchloride—A general purpose family of insulations whose basic constituent is polyvinylchloride or its copolymer with vinyl acetate. Plasticizers, stabilizers, pigments and fillers are added in lesser quantity to improve mechanical and/or electrical properties of this material.

PP—Polypropylene.

ProAx™—Trademark of ADC Telecommunications, Inc.. Camera connector for use with triaxial cable.

PU—Polyurethane.

PVC—Polyvinylchloride.

PVDF—Polyvinylidene fluoride, a fluorocarbon material.

Shield—In cables, a metallic layer placed around a conductor to prevent electrostatic interference between the enclosed wires and external fields.

Solid Conductor—A conductor consisting of a single wire.

Stranded Conductor—A conductor composed of single solid wires twisted together, either singly or in groups.

TC—Tinned copper.

Thermoplastic—A material which softens when heated or reheated and becomes firm on cooling.

TPE—Thermoplastic elastomer.

Triaxial Cable—A cable construction having three coincident axes, such as conductor, first shield, and second shield all insulated from one another.

Tri-Loc®—Registered trademark of Kings Electronics, Inc. Camera connector for use with triaxial cable.

UL—(Underwriters Laboratories) A nonprofit independent organization which operates a listing service for electrical and electronic materials and equipment.

Velocity of Propagation—The speed of an electrical signal down a length of cable compared to speed in free space expressed as a percent. It is the reciprocal of the square root of the dielectric constant of the cable insulation.

Appendix I: Competitor Cross Reference

Belden® to Gepco® Brand

| Belden® | Gepco® Brand | Belden® | Gepco® Brand | Belden® | Gepco® Brand | Belden® | Gepco® Brand | Belden | Gepco® Brand |
|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|
| 1153A | C3529 | 1694A | VSD2001 | 5202FE | SSS164R | 7789A | V55230 | B9A007 | FMB6R/50 |
| 1164B | SV253STR | 1694F | VHD2001M | 5202U1 | SSUB164 | 7791A | VS10230 | B9A010 | FMB12R/50 |
| 1167B | SV254STR | 1694SB | VSD2001SB | 5202UE | SSU164R | 7792A | VS12230 | B9A013 | FMB2P/50 |
| 1172A | MM1024 | 1694WB | VSD2001PEF | 5240U1 | SSUB162 | 7796A | V552000 | B9A014 | FMB4P/50 |
| 1189A | C5785 | 1695A | VSD2001TS | 5300FE | SSS182R | 7798A | VS102000 | B9A015 | FMB6P/50 |
| 1189AP | C3525 | 1800B | DS401 | 5300UE | SSU182R | 7804R | HDC920R | B9A018 | FMB12P/50 |
| 1192A | MP1201 | 1800F | DS401M | 5302FE | SSS184R | 7810SB | V50105B | B9A037T | FMD2R/50 |
| 1212 | CT504/350 | 1801B | DS401TS | 5302UE | SSU184R | 7855A | VHD7000 | B9A038T | FMD4R/50 |
| 1213 | CT504/350P | 1802B | DS401D | 533945 | 395011 | 7880A | DS608 | B9A039T | FMD6R/50 |
| 1263B | VA2/3TP | 1803F | DS404 | 5400FE | SSS202R | 7890A | DS604 | B9A042T | FMD12R/50 |
| 1277P | SV253SP | 1805F | DS408 | 5402FE | SSS204R | 7891A | DS601D | B9A043T | FMD2P/50 |
| 1277R | SV253SR | 1806F | DS412 | 5402UE | SSU204R | 7892A | DS612 | B9A044T | FMD4P/50 |
| 1278P | SV254SP | 1814R | GA61802GFC | 543945 | C1142 | 7893A | DS616 | B9A045T | FMD6P/50 |
| 1278R | SV254SR | 1815R | GA61804GFC | 549945 | C8028 | 7987P | E3842S | B9A048T | FMD12P/50 |
| 1279P | SV255SP | 1816R | GA61806GFC | 5500FE | SSS222R | 7987R | E1842S | B9A02T | FMD24R/50 |
| 1279R | SV255SR | 1817R | GA61808GFC | 5502FE | SSS224R | 7989P | E3843S | B9A11T | FMD24P/50 |
| 1280R | SV256SR | 1818R | GA61812GFC | 5502UE | SSU224R | 7989R | E1843S | B9B005 | FMB2R |
| 1300SB | CT504S/STDSB | 1819R | GA61816GFC | 6000FE | SSS122P | 8232A | VT61859 | B9B006 | FMB4R |
| 1305A | CT504HD | 1820R | GA61820GFC | 6000UE | SSU122P | 8233A | VT61811 | B9B007 | FMB6R |
| 1306SB | V18/2PZSB | 1822R | GA61826GFC | 6002FE | SSS124P | 8233WB | VT61811PEF | B9B010 | FMB12R |
| 1307A | SSPUB162 | 1823R | GA61832GFC | 6002UE | SSU124P | 82761 | 61801HS | B9B013 | FMB2P |
| 1308A | SSPUB164 | 1829P | C3524 | 6100FE | SSS142P | 8281 | VP618M | B9B014 | FMB4P |
| 1309A | SSPUB142 | 1829R | GA61820GFC | 6100UE | SSU142P | 8281F | VP618PE | B9B015 | FMB6P |
| 1310A | SSPUB144 | 1829R | C5886 | 6102FE | SSS144P | 8412 | M1042 | B9B018 | FMB12P |
| 1314SB | SSU142SB | 1855A | VDM230 | 6102UE | SSU144P | 8413 | MP1022 | B9B037T | FMD2R |
| 1315SB | SSU144SB | 1855P | VDM230TS | 6200FE | SSS162P | 8451 | SSS222R | B9B038T | FMD4R |
| 1316SB | SSU122SB | 1856A | LVT61859 | 6200UE | SSU162P | 8461 | 1800 | B9B039T | FMD6R |
| 1317SB | SSU124SB | 1857A | LVT61859S | 6202FE | SSS164P | 8471 | 1600 | B9B042T | FMB12R |
| 1319SB | CT604/STDSB | 1858A | LVT61811 | 6202UE | SSU164P | 8473 | 1400 | B9B043T | FMD2P |
| 1322R | C5889 | 1859A | VT61811TK | 6300FE | SSS182P | 8477 | 1200 | B9B044T | FMD4P |
| 1347A | VA2/4 | 1865A | VDM250 | 6300UE | SSU182P | 8641 | 72401EZ | B9B045T | FMD6P |
| 1410R | GA72408GFC | 1883A | 72401EZ | 6302FE | SSS184P | 8719 | 1600S | B9B048T | FMD12P |
| 1411R | GA72412GFC | 1901A | XB401 | 6302UE | SSU184P | 8723 | 6600 | B9B602T | FMD24R |
| 1415R | GA72426GFC | 1904A | XB404 | 633948 | 495035 | 8723SB | 6600SB | B9B611T | FMD24P |
| 1418B | SV255STR | 1908A | XB408 | 6400FE | SSS202P | 8760 | 1800S | B9W005 | FSB2R |
| 1426A | C1142 | 1912A | XB412 | 6402FE | SSS204P | 87723 | 6600HS | B9W006 | FSB4R |
| 1502P | 18/22AXLP | 1916A | XB416 | 6402UE | SSU204P | 87740 | 1800HS | B9W007 | FSB6R |
| 1502P | 18/22CRTP | 2412 | CT604/250 | 643948 | 495028 | 87761 | 61801HS | B9W010 | FSB12R |
| 1502R | 18/22AXL | 2413 | CT604/250P | 649948 | C8030 | 8777SB | 6603SB | B9W013 | FSB2P |
| 1502R | 18/22CRT | 4812 | CT604/500 | 6500FE | SSS222P | 88723 | 6600HS | B9W014 | FSB4P |
| 1502SB | 18/22CRTSB | 4813 | CT604/500P | 6502FE | SSS224P | 9116 | C5886 | B9W015 | FSB6P |
| 1504A | D61801EZGF | 5000FE | SSS122R | 6502UE | SSU224P | 9116P | C3524 | B9W018 | FSD12P |
| 1505A | VPM2000 | 5000UE | SSU122R | 6543PA | 6604HS | 9116SB | VB1860SB | B9W037T | FSD2R |
| 1505F | VHD2000M | 5002FE | SSS124R | 6545PA | 6606HS | 9154 | SSS202R | B9W038T | FSD4R |
| 1506A | VPM2000TS | 5002UE | SSU124R | 6546PA | 6608HS | 9170 | VA2/5 | B9W039T | FSD6R |
| 1509C | GA72402GFC | 5100FE | SSS142R | 6548PA | 6612HS | 9180 | DS601 | B9W042T | FSD12R |
| 1510C | GA72404GFC | 5100UE | SSU142R | 7710A | VS32001 | 9451 | 61801EZ | B9W043T | FSD2P |
| 1512C | GA72408GFC | 5102FE | SSS144R | 7711A | VS42001 | 9451P | 61801HS | B9W044T | FSD4P |
| 1513C | GA72412GFC | 5102U1 | SSUB144 | 7712A | V552001 | 9451P | SSS222P | B9W045T | FSD6P |
| 1514C | GA72416GFC | 5102UE | SSU144R | 7713A | VS102001 | 9451SB | 61801EZSB | B9W048T | FSD12P |
| 1517C | GA72426GFC | 5140U1 | SSUB142 | 7731A | VHD1100 | 9907 | C5779 | B9W602T | FSD24R |
| 1518C | GA72432GFC | 5200FE | SSS162R | 7731SB | VHD1100SB | B9A005 | FMB2R/50 | B9W616T | FSD24P |
| 1617A | C5044 | 5200UE | SSU162R | 7732A | VHD1100TK | B9A006 | FMB4R/50 | | |

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Appendix I: Competitor Cross Reference

Canare® to Gepco® Brand

| Canare® | Gepco® Brand | Canare® | Gepco® Brand | Canare® | Gepco® Brand | Canare® | Gepco® Brand | Canare® | Gepco® Brand |
|----------|--------------|-----------|--------------|------------|--------------|------------|--------------|---------|--------------|
| 4S11 | GSC134 | L-2B2AT | 72401EZ | L-4E4-12AT | GA61812GFC | L-7CFB | VHD1100 | V3-5C | VSD2001TS |
| A2C3 | 6600 | L-2E5 | MP1022 | L-4E4-16AT | GA61816GFC | L-7CHD | VHD1300 | V3-5CFB | VS32001 |
| DA202 | DS601M | L-2T2S | XB201M | L-4E4-2AT | GA61802GFC | LF-2SM9 | HDC920 | V4-4CFB | VPM2000TS |
| DA202-2P | DS601D | L-3C2YS | VP618PE | L-4E4-4AT | GA61804GFC | LV-77S | VP618M | V4-5C | VSD2001TS |
| DA202-4P | DS604 | L-3CFB | VDM230 | L-4E4-8AT | GA61808GFC | MR202-12AT | GA72412GFC | V4-5CFB | VS42001 |
| DA202-8P | DS608 | L-4.5CHD | VSD2001 | L-4E5C | MM1024 | MR202-16AT | GA72416GFC | V5-3C | VP618PE |
| DA202AT | DS601 | L-4CFB | VPM2000 | L-4E6S | MP1201 | MR202-2AT | GA72402GFC | V5-3CFB | VSS2000 |
| DA206 | DS401M | L-4CFTX | LVT61859 | L-5CFB | VSD2001 | MR202-32AT | GA72432GFC | V5-4CFB | VPM2000TS |
| GS-6 | GLC20 | L-4E3-16P | XB416 | L-5CFB | VSD2001PEF | MR202-4AT | GA72404GFC | V5-5C | VSD2001TS |
| L-2.5CHD | VDM230 | L-4E3-4P | XB404 | L-5CHD | VHD7000 | MR202-8AT | GA72408GFC | V5-5FCB | VSS2001 |
| L-2.5FCB | VDM250 | L-4E3-8P | XB408 | L-6CHD | VHD1100 | V3-4CFB | VPM2000TS | | |

West Penn to Gepco® Brand

| West Penn | Gepco® Brand | West Penn | Gepco® Brand | West Penn | Gepco® Brand | West Penn | Gepco® Brand | West Penn | Gepco® Brand |
|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|
| 224 | SSU182R | 252825 | VDM250D | 3244 | SSS184R | AQ296 | HBS122T | C2415 | 18/22CCT |
| 225 | SSU162R | 25291B | SSS222P | 3245 | SSS164R | AQ3244 | HBS184T | C2425 | 18/22CCD |
| 226 | SSU142R | 25292B | SSS202P | 3270 | SSS226R | AQ3245 | HBS164T | D2401 | 72401EZ |
| 227 | SSU122R | 25293B | SSS182P | 3CRGB | SV253SR | AQC189 | HBHD201 | D25350 | 18/22CRTP |
| 241 | SSU224R | 25294B | SSS162P | 454 | 61801EZ | AQC224 | HBU182 | D25454 | 61801HS |
| 242 | SSU204R | 25295B | SSS142P | 5CRGB | SV255SR | AQC225 | HBU162 | DA2401 | DS401 |
| 244 | SSU184R | 25296B | SSS122P | 6100 | C5886 | AQC240 | HBU2240 | DA2402 | DS401D |
| 245 | SSU164R | 253241B | SSS224P | 6300 | C5889 | AQC290 | HBS2220 | DA252401 | DS401TS |
| 246 | SSU144R | 253270B | SSS226P | 6350 | VSD2001 | AQC291 | HBS222 | HA1624 | 164NCAT |
| 248 | SSU124R | 253544B | SSS184P | 77350 | 18/22CRT | AQC292 | HBS202 | HA225 | SSPUB162 |
| 25806 | 495035 | 25488B | SSU124P | 806 | 395011 | AQC293 | HBS182 | HA226 | SSPUB142 |
| 25815 | 495028 | 256100 | C3524 | 815 | C1142 | AQC293 | HBS186 | HA245 | SSPUB164 |
| 25819 | VPM2000TS | 256300 | C3525 | 819 | VPM2000 | AQC3186 | HBS186 | HA246 | SSPUB144 |
| 25224B | SSU182P | 256350 | VSD2001TS | AQ224 | HBU182T | AQC351 | HBS2230 | HA825 | VDM230 |
| 25225B | SSU162P | 270 | SSU226R | AQ225 | HBU162T | AQC352 | HBS223 | HD25825 | VDM230TS |
| 25226B | SSU142P | 2815B | C8028 | AQ226 | HBU142T | AQC355 | HBS2240 | M58813 | E1842S |
| 25227B | SSU122P | 291 | SSS222R | AQ227 | HBU122T | AQC357 | HBS224 | M58814 | E3842S |
| 25241B | SSU224P | 292 | SSS202R | AQ244 | HBU184T | AQC358 | HBS203 | WP4546 | GA61806GFC |
| 25242B | SSU204P | 293 | SSS182R | AQ245 | HBU164T | AQC359 | HBS204 | WP4548 | GA61808GFC |
| 25244B | SSU184P | 294 | SSS162R | AQ246 | HBU144T | AQC430 | HBSP222 | WP45412 | GA61812GFC |
| 25245B | SSU164P | 295 | SSS142R | AQ293 | HBS182T | AQC432 | HBSP226 | WP6355 | VSS2001 |
| 25246B | SSU144P | 296 | SSS122R | AQ294 | HBS162T | AQC439 | HBSP224 | WP8253 | SV253STR |
| 25270B | SSU226P | 3011 | SSS204R | AQ295 | HBS142T | AQC806 | HBS181 | WP8255 | SV255STR |
| 252815 | C8030 | 3241 | SSS224R | | | AQC815 | HBS201 | | |

Crestron® to Gepco® Brand

| Crestron® | Gepco® Brand | Crestron® | Gepco® Brand |
|---------------|--------------|--------------|--------------|
| CRESCAT-DC-NP | 18/22CDC | CRESNET-DM-P | SSS222P |
| CRESCAT-D-NP | 18/22CCD | CRESNET-NP | 18/22CRT |
| CRESCAT-NP | 18/22CCT | CRESNET-P | 18/22CRTP |
| CRESCAT-Q-NP | 18/22CCQ | DM-CBL-8G-NP | CT504/SDM |
| CRESNET-DM-NP | SSS222R | DM-CBL-8G-P | CT504/SDMP |

Mohawk to Gepco® Brand

| Mohawk | Gepco® Brand |
|--------|---------------|
| M96921 | HDC920R |
| M96924 | FSD2P, HDP221 |

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