



Professional Audio, Video & Data Cable Products

Catalog G11



TABLE OF CONTENTS

ANALOG AUDIO CABLES pages 4-27

Multi-Pair
Single & Dual-Pair
Microphone Cable
Guitar/Instrument
Speaker Cable

DIGITAL AUDIO CABLES pages 28-37

110 Ω AES/EBU Multi-Pair
110 Ω AES/EBU Single-Pair
75 Ω AES3id, Word Clock & SPDIF Coax

VIDEO CABLES pages 38-57

High-Definition Coax
Analog Coax
Precision Video Coax
Component RGB
Multi-Channel Coax
Composite A/V

CAMERA & FIBER OPTIC CABLES pages 58-71

Triax
Hybrid Fiber
HD Electrical
Tactical
Single-Mode Fiber
Multi-Mode Fiber

NETWORK CABLES pages 72-79

Category 6
Category 5e
Heavy-Duty Tactical Cat5e
Multi-Channel Heavy-Duty Tactical Cat5e
Lighting

CABLE ASSEMBLIES pages 80-81

Audio Assemblies and Breakout Systems
Video Assemblies and Breakout Systems
Fiber Optic Assemblies and Breakout Systems
Custom Assemblies, Panels and Harnessing

APPENDIX pages 82-92

Color Codes
Wire Gauge Specifications
Conduit Capacity Chart
Diameter of Cable Bundles
NEC Cable Substitution Hierarchy
Connector Cross Reference
Serial Digital Coax Distances
Glossary

Index

BROADCAST

PRO A/V

RECORDING

PRODUCTION

LIGHTING

STAGING

CONTROL

GEPCO® HISTORY

Since 1981, Gepco International 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.





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

In This Section:

- 6** Multi-Pair: GEP-FLEX 22 AWG
- 7** Multi-Pair: GEP-FLEX 24 AWG
- 8** Multi-Pair: Thin-Profile 12-Pair
- 9** Multi-Pair: X-Band
- 10** Multi-Pair: Heavy-Duty 12-Channel
- 11** Multi-Pair: Direct Burial
- 12** Multi-Pair: Plenum
- 13** Two-Pair Shielded
- 14** Single- & Dual-Pair: 22 AWG
- 15** Single- & Dual-Pair: 24 AWG
- 16** X-Band Single-Pair
- 17** Microphone: Heavy Duty
- 18** Microphone: X-Band
- 19** Microphone: Quad Star
- 20** Microphone: Thin Profile
- 21** Guitar/Instrument: Low Capacitance
- 22** Guitar/Instrument: X-Band Dual Shield
- 23** Speaker: High Definition
- 24** Speaker: High-Bandwidth HBW Series
- 25** Speaker: Portable Multi-Conductor
- 26** Speaker: Permanent Installation, Unshielded
- 27** Speaker: Permanent Installation, Shielded

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.

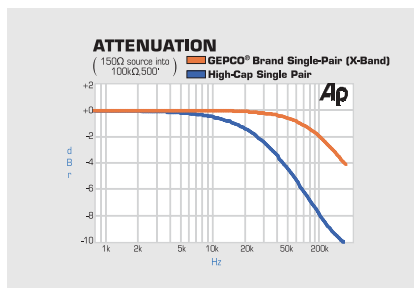
Easy to Terminate

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

Electrical Characteristics & Specifications

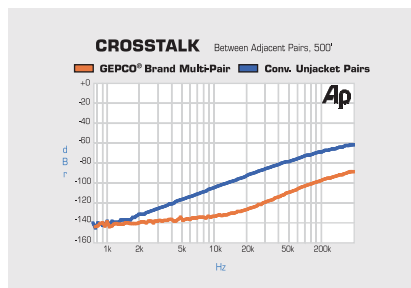
Bandwidth & Low Attenuation

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



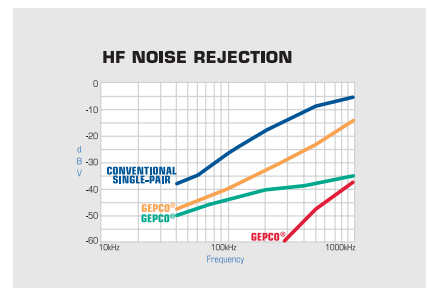
Minimal Crosstalk

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.



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Multi-Pair: GEP-FLEX 22 AWG

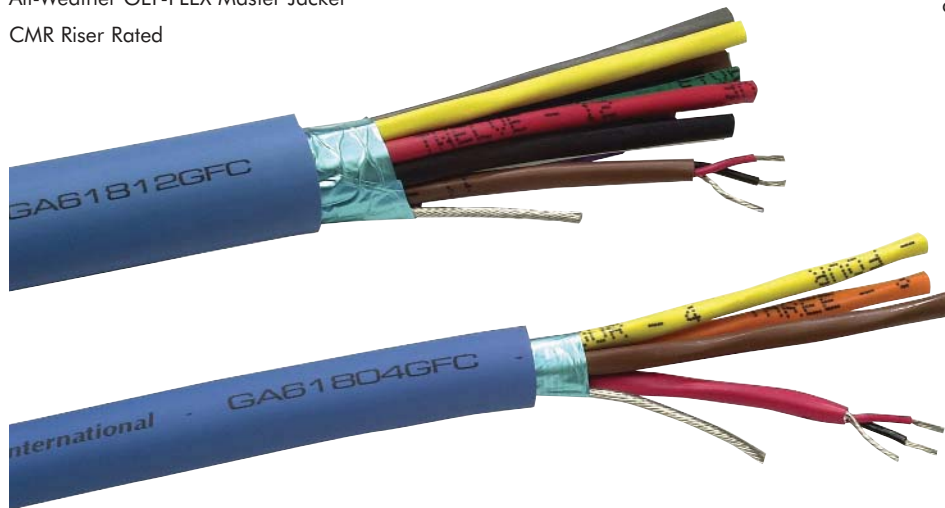
Features & Benefits

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

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 alphanumerically 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-gauge 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.



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" Wall/Red & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC, 0.140"/Base 10 (See Color Code Chart 1, Page 82)	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
GA61802GFC	2	0.360"	67 lbs/Mft
GA61804GFC	4	0.400"	95 lbs/Mft
GA61806GFC	6	0.475"	121 lbs/Mft
GA61808GFC	8	0.570"	159 lbs/Mft
GA61812GFC	12	0.635"	217 lbs/Mft
GA61816GFC	16	0.710"	263 lbs/Mft
GA61820GFC	20	0.800"	315 lbs/Mft
GA61826GFC	26	0.840"	387 lbs/Mft
GA61832GFC	32	0.935"	497 lbs/Mft

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

Multi-Pair: GEP-FLEX 24 AWG

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

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-gauge conductors are easier to terminate while still maintaining low DCR. The GA724 series is ideal for cable assemblies, patchbay wiring or portable snakes.



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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" Wall/Red & Black	100% Foil (Bonded)	24 AWG (7x32) Stranded TC	PVC, 0.115"/Base 10 (See Color Code Chart 1, Page 82)	100% Foil	20 AWG (19x32) Stranded TC	GEP-FLEX TPE, Black	CM

Mechanical Specifications (Individual)

Part Number	# of Pairs	Nominal OD	Approx. Weight
GA72402GFC	2	0.320"	62 lbs/Mft
GA72404GFC	4	0.405"	88 lbs/Mft
GA72408GFC	8	0.500"	134 lbs/Mft
GA72412GFC	12	0.595"	198 lbs/Mft
GA72416GFC	16	0.664"	225 lbs/Mft
GA72426GFC	26	0.830"	363 lbs/Mft
GA72432GFC	32	0.890"	423 lbs/Mft

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

Multi-Pair: Thin-Profile 12-Pair

Features & Benefits

Low Attenuation & Crosstalk
Flexible
Easy to Terminate
Polyethylene Dielectric
Individually Shielded & Jacketed Pairs
Alphanumeric Pair Identification
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

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-gauge conductors are easier to terminate while still maintaining low DCR. The GA72412TP is ideal for cable assemblies, patchbay wiring or portable snakes.



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"	24 AWG (7x32) Stranded TC	PE, 0.010" 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

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: X-Band

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

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.



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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" Wall/ One White, One Black	95% TC Braid	24 AWG (41x40) Stranded TC	Flexible Matte PVC 0.145"/ 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"	115 lbs/Mft
XB408	8	0.580"	176 lbs/Mft
XB412	12	0.738"	270 lbs/Mft
XB416	16	0.785"	320 lbs/Mft

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

Multi-Pair: Heavy-Duty 12-Channel

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

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.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation	Color Code	Pair Shield	Pair Drain	Master Jacket	Approx. Weight
DT61812	12	0.505"	22 AWG (19x34) Stranded TC	PE, 0.010" Wall	Varies for Each Pair, See Color Code Chart 2, Page 82	100% Foil, Mylar® Side Out (Pairs Are Isolated)	22 AWG (19x34) Stranded TC	PU, Black	160 lbs/Mft

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

Multi-Pair: Direct Burial

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

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.



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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" Wall/ Red & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC, 0.140"/Base 10 (See Color Code Chart 1, Page 82)	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"	118 lbs/Mft
GA61812PEF	12	0.635"	220 lbs/Mft

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: Plenum

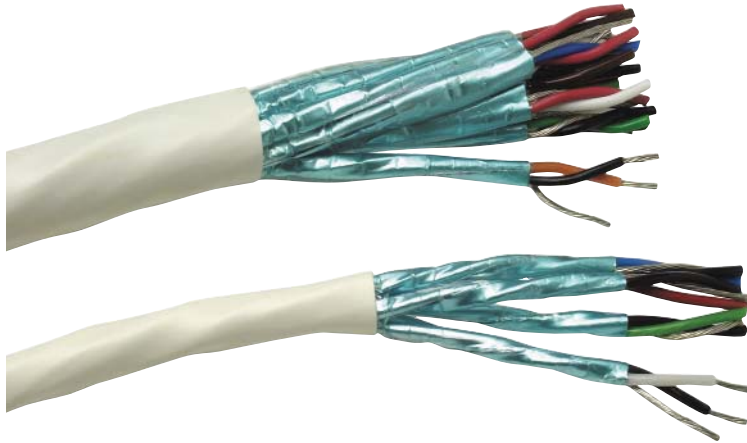
Features & Benefits

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" Wall	Varies for Each Pair, See Color Code Chart 2, Page 82	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"	47 lbs/Mft
6606HS	6	0.345"	72 lbs/Mft
6608HS	8	0.385"	98 lbs/Mft
6612HS	12	0.475"	145 lbs/Mft

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

Features & Benefits

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

Applications

- Two-Pair Audio
- Data
- Machine Control

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 tinned-copper drain wire. Insulation in the 660 is a high-grade polyethylene that provides both improved electrical and temperature characteristics compared to PVC.



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"	22 AWG (7x30) Stranded TC	PE, 0.008" Wall/ Red & Black, White & Green	100% Foil (Each Pair)	24 AWG (7x32) Stranded TC	PVC, Black or Gray	CM	21 lbs/Mft
	Audio/Control Two-Pair								
6600HS	2	0.178"	22 AWG (7x30) Stranded TC	Halar®, 0.011" Wall/ Red & Black, White & Green	100% Foil (Each Pair)	24 AWG (7x32) Stranded TC	Plenum PVC, White	CMP	22 lbs/Mft
	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

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Single- & Dual-Pair: 22 AWG

Features & Benefits

Low Attenuation
 Low Crosstalk (Dual-Pair)
 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

The industry-standard for balanced audio cable for permanent installation, the Gepco® Brand 22-gauge 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-gauge 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-gauge single- and dual-pair audio cables are ideal for punch-down, rack wiring, and extended-distance runs of mic level signals.



Mechanical Specifications (Series)

Conductors

22 AWG (7x30) Stranded TC

Drain Wire

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"	PE, 0.008" Wall/Red & Black	100% Foil (Bonded)	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	15 lbs/Mft
<i>Standard Single-Pair: Easy Strip</i>								
D61801EZGF	2	0.140" x 0.290"	PE, 0.008" Wall/Red & Black	100% Foil (Bonded)	Riser GEP-FLEX TPE	Blue with Red Stripe	CMR	27 lbs/Mft
<i>Flexible Dual-Pair: Easy Strip</i>								
61801HS	1	0.134"	Halar®, 0.010" Wall/Red & Black	100% Foil	Plenum PVC	White	CMP 75°C	13 lbs/Mft
<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

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Single- & Dual-Pair: 24 AWG

Features & Benefits

- Thin Profile
- Low Attenuation
- Low Crosstalk (Dual-Pair)
- 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-gauge 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-gauge 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"	PE, 0.008" Wall/ Red & Black	100% Foil (Bonded)	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CM	10 lbs/Mft
<i>Thin Profile Single-Pair: Easy Strip</i>								
D72401EZGF	2	0.130" x 0.265"	PE, 0.008" Wall/ Red & Black	100% Foil (Bonded)	GEP-FLEX TPE	Black with Red Stripe	CM	22 lbs/Mft
<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

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

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.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation/Color Code	Shield	Drain Wire	Jacket	Approx. Weight
XB401	1	0.145"	24 AWG (40x40) Stranded Oxygen-Free BC	Foam Polypropylene, 0.012" Wall/ One White, One Black	95% TC Braid	24 AWG (41x40) Stranded TC	Flexible Matte PVC	15 lbs/Mft
<i>X-Band 24 AWG Single-Pair</i>								
XB401FB	1	0.148"	24 AWG (40x40) Stranded Oxygen-Free BC	Foam Polypropylene, 0.012" Wall/ One White, One Black	100% Foil, 95% TC Braid	24 AWG (41x40) Stranded TC	Flexible Matte PVC	15 lbs/Mft
<i>X-Band 24 AWG Single-Pair: Dual Shield</i>								

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

Microphone: Heavy Duty

Features & Benefits

- Durable & Rugged
- Extra-Low Attenuation
- Flexible
- 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

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-gauge 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.



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

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

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Microphone: X-Band

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

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.

The X-Band microphone series is also exceptionally flexible. This series features the Gepco® Brand G-Flex jacket compound and enhanced core geometry. The X-Band microphone series is available in six color options.



Mechanical Specifications

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

Microphone: Quad Star

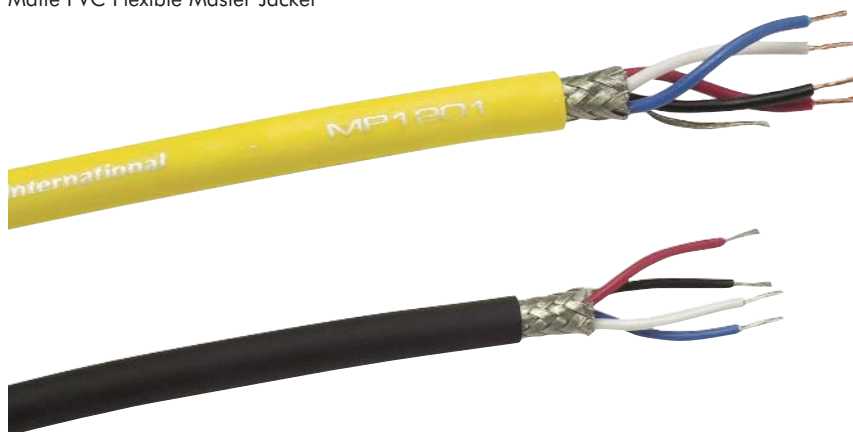
Features & Benefits

- 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
- Longframe 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"	24 AWG (41x40) Stranded BC	PE, 0.016" 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
MM1024	4	0.193"	26 AWG (30x40) Stranded TC	PE, 0.012" Wall/ White & Black, Red & Blue	95% TC Braid	None	Flexible Matte PVC	Black (Other Colors May Also Be Available)	26 lbs/Mft
Thin Profile Quad Star									
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		—		

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Microphone: Thin Profile

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
 Longframe or Bantam Patchcords

The MP1022 is a thin profile and 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 longframe patchcords and short distance balanced mic or line level equipment interconnect.



Mechanical Specifications

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

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

Guitar/Instrument: Low Capacitance

Features & Benefits

- Low Attenuation
- Lower Capacitance than Conventional Types
- Extra Flexible
- Heavy-Gauge Conductor
- Polyethylene Dielectric
- Noise Reducing PVC Tape
- Full-Copper Braid Shield
- Matte PVC Flexible Master Jacket

Applications

- Line or Instrument Level Unbalanced Analog Audio

An extra-flexible, low-noise and low-loss guitar or unbalanced instrument cable, the GLC20 features a large 20-gauge 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, that 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.



Mechanical Specifications

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

Electrical Specifications

Impedance	Capacitance	Cond. DCR
50 Ω	32 pF/ft	10.0 Ω/Mft

Guitar/Instrument: X-Band Dual Shield

Features & Benefits

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

Applications

Line or Instrument Level Unbalanced Analog Audio

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 heavy-gauge (20-gauge), 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.



Mechanical Specifications

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

Electrical Specifications

Impedance	Capacitance	Cond. DCR
50 Ω	22.3 pF/ft	10.37 Ω/Mft

Speaker: High Definition

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

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.



Mechanical Specifications

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

Electrical Specifications

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

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Speaker: High-Bandwidth HBW Series

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

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-gauge 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.

Built for easy termination in a variety of applications, the HBW series features easy-to-strip dielectric and jacket compounds that are also exceptionally flexible and UL rated. These characteristics not only reduce installation time, but they also allow the HBW series to be installed in both in-room and in-wall environments.



Mechanical Specifications

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

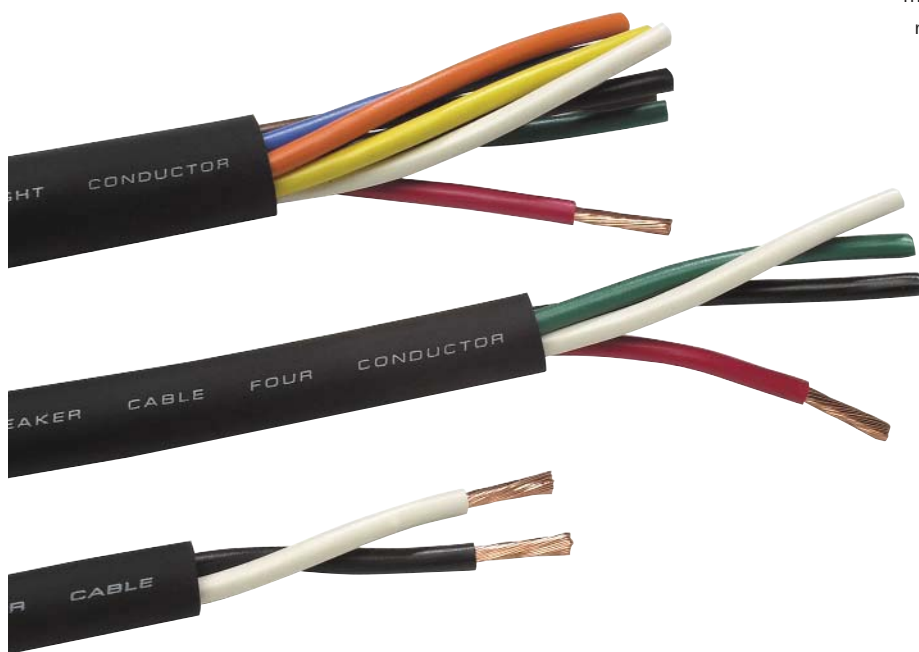
Features & Benefits

- 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-gauge 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.



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

Neutrik and speakON are registered trademarks of Neutrik AG.

Speaker: Permanent Installation, Unshielded

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

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 oxidation 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-gauge, each version is manufactured in both UL rated plenum or non-plenum constructions and is ideal for permanent installation in conduit, walls or ceilings.



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"	12 AWG (19x25) Stranded TC	PVC, 0.031" Wall/ White & Black	—	—	PVC, Gray	PLTC	89 lbs/Mft
<i>12 AWG Speaker Cable</i>									
1200HS	1	0.270"	12 AWG (65x30) Stranded TC	Halar®, 0.008" Wall/ Red & Black	—	—	Plenum PVC, White	CL3P	87 lbs/Mft
<i>12 AWG Speaker Cable: Plenum</i>									
1400	1	0.336"	14 AWG (19x27) Stranded TC	PVC, 0.031" Wall/ White & Black	—	—	PVC, Gray	PLTC	66 lbs/Mft
<i>14 AWG Speaker Cable</i>									
1400HS	1	0.215"	14 AWG (41x30) Stranded TC	Halar®, 0.008" Wall/ Red & Black	—	—	Plenum PVC, White	CL2P	64 lbs/Mft
<i>14 AWG Speaker Cable: Plenum</i>									
1600	1	0.254"	16 AWG (19x29) Stranded TC	PVC, 0.016" Wall/ White & Black	—	—	PVC, Gray	PLTC	43 lbs/Mft
<i>16 AWG Speaker Cable</i>									
1600HS	1	0.180"	16 AWG (19x29) Stranded TC	Halar®, 0.008" Wall/ Red & Black	—	—	Plenum PVC, White	CMP	39 lbs/Mft
<i>16 AWG Speaker Cable: Plenum</i>									
1800	1	0.224"	18 AWG (7x26) Stranded TC	PVC, 0.016" Wall/ White & Black	—	—	PVC, Gray	CM	31 lbs/Mft
<i>18 AWG Speaker Cable</i>									
1800HS	1	0.160"	18 AWG (16x30) Stranded TC	Halar®, 0.007" Wall/ Red & Black	—	—	Plenum PVC, White	CMP	28 lbs/Mft
<i>18 AWG Speaker Cable: Plenum</i>									

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

Speaker: Permanent Installation, Shielded

Features & Benefits

- Easy to Install
- Shielded with Drain Wire
- Low-Friction, Easy-to-Install Jacket
- Tinned Copper Conductors
- Multiple Gauge Sizes Available
- UL Listed

Applications

- Speaker Level Analog Audio
- Permanent Installation

Gecco® 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. The conductors are shielded with a durable foil/Mylar® and a tinned copper drain wire for added noise rejection and suppression. Available in 16- and 18-gauge, both products are ideal for permanent installation in conduit, walls or non-plenum ceilings.



Mechanical Specifications									
Part #	# of Pairs	Nominal OD	Conductor	Insulation/Color Code	Shield	Drain Wire	Jacket (Type, Colors)	UL Type	Approx. Weight
1600S	1	0.287"	16 AWG (19x29) Stranded TC	PE, 0.032" Wall/ Clear & Black	100% Foil	18 AWG (16x30) Stranded TC	PVC, Gray	CM	52 lbs/Mft
			16 AWG Speaker Cable: Shielded						
1800S	1	0.214"	18 AWG (16x30) Stranded TC	PE, 0.018" Wall/ Clear & Black	100% Foil	18 AWG (16x30) Stranded TC	PVC, Gray	CM	32 lbs/Mft
			18 AWG Speaker Cable: Shielded						
Electrical Specifications									
Part #	Cond. DCR			Drain DCR					
1600S	4.5 Ω/Mft			6.7 Ω/Mft					
1800S	6.7 Ω/Mft			10.5 Ω/Mft					

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DIGITAL AUDIO CABLES

In This Section:

- 30** 110 Ω Multi-Pair DS Series: 24 AWG
- 31** 110 Ω Multi-Pair DS Series: 26 AWG
- 32** 110 Ω Single-Pair DS Series: 24 AWG
- 33** 110 Ω Single-Pair DS Series: 26 AWG
- 34** 110 Ω Single-Pair DS Series: 24 AWG
Extra Flexible
- 35** 110 Ω Single-Pair DS Series: 26 AWG
Extra Flexible
- 36** 75 Ω AES3id, Word Clock & SPDIF Coax:
Extra Flexible
- 37** 75 Ω AES3id, Word Clock & SPDIF Coax

IMPEDANCE-SPECIFIC TWISTED PAIR & COAX 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

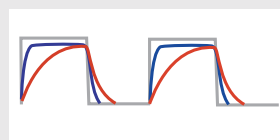
Each cable has time-saving features such as color coded jackets, optimized conductor stranding, drain wires and easy-to-strip compounds.

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

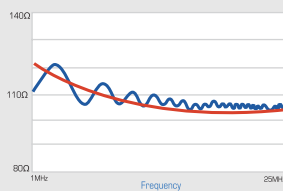


Original Bit Pulse
Pulse Through 110 Ω Digital Audio Cable
Pulse Through Analog Audio Cable

Precision 110 Ω or 75 Ω Impedance

Digital audio cables feature a 110 Ω or 75 Ω characteristic impedance. Impedance matching ensures low attenuation and minimal signal reflection which can result in bit-errors or jitter.

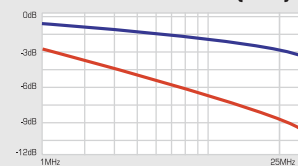
CHARACTERISTIC IMPEDANCE



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

Features & Benefits

Precision 110 Ω Impedance
 25 MHz Bandwidth for 192 kHz Sampling Rates
 Flexible
 Gas-Injected Foam Polyethylene 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

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.



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" Wall/ White & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC, 0.180"/Base 10 (See Color Code Chart 1, Page 82)	GEP-FLEX TPE, Violet	CMR

Mechanical Specifications (Individual)

Part Number	# of Pairs	Nominal OD	Approx. Weight
DS404	4	0.620"	125 lbs/Mft
DS408	8	0.815"	260 lbs/Mft
DS412	12	0.995"	380 lbs/Mft

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

110 Ω Multi-Pair DS Series: 26 AWG

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

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.



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" Wall/ White & Black	100% Foil	24 AWG (7x32) Stranded TC	PVC, 0.143"/Base 10	GEP-FLEX TPE, Black	CM	

Mechanical Specifications (Individual)				
Part Number	# of Pairs	Nominal OD	Approx. Weight	
DS604	4	0.435"	65 lbs/Mft	
DS608	8	0.560"	140 lbs/Mft	
DS612	12	0.685"	200 lbs/Mft	
DS616	16	0.785"	270 lbs/Mft	
DS624	24	0.975"	395 lbs/Mft	

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	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	

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110 Ω Single-Pair DS Series: 24 AWG

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
 Extra-Flexible & 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

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.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Dielectric/Color Code	Fillers	Shield	Drain	Jacket	UL Type	Approx. Weight
DS401	1	0.180"	24 AWG (7x32) Stranded TC	Foam PE, 0.021" Wall/ One White, One Black	Solid Virgin Polyethylene Rod	100% Foil	22 AWG (7x30) Stranded TC	PVC, Violet or Black	CMR	13 lbs/Mft
<i>Wide Bandwidth Single-Pair: Permanent Install. Easy Strip & Termination</i>										
DS401D	2	0.370" x 0.180"	24 AWG (7x32) Stranded TC	Foam PE, 0.021" 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
<i>Wide Bandwidth Dual-Pair: Permanent Install. Easy Strip & Termination</i>										
DS401TS	1	0.170"	24 AWG (7x32) Stranded TC	Foam FEP, 0.021" Wall/ One White, One Black	—	100% Foil	22 AWG (7x30) Stranded TC	Plenum PVC White	CMP	13 lbs/Mft
<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
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

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110 Ω Single-Pair DS Series: 26 AWG

Features & Benefits

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

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/longframe patchcords. In addition, the DS6 series is characterized up to 25 MHz for 192 kHz sampling rates.



Mechanical Specifications									
Part #	# of Pairs	Nominal OD	Conductors	Dielectric Color Code	Shield	Drain Wire	Jacket (Type, Colors)	UL Type	Approx. Weight
DS601	1	0.143"	26 AWG (7x34) Stranded TC	Foam PP, 0.015" Wall/ White & Black	100% Foil	24 AWG (7x32) Stranded TC	PVC, Black	CM	10 lbs/Mft
<i>Thin Profile 110 Ω Single-Pair</i>									
DS601D	2	0.143" x 0.290"	26 AWG (7x34) Stranded TC	Foam PP, 0.015" Wall/ White & Black	100% Foil	24 AWG (7x32) Stranded TC	PVC, Black with Red Stripe	CM	21 lbs/Mft
<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	

110 Ω Single-Pair DS Series: 24 AWG Extra Flexible

Features & Benefits

Extra Flexible
 Precision 110 Ω Impedance
 25 MHz Bandwidth for 192 kHz Sampling Rates
 Gas-Injected Foam Polyethylene or Foam Teflon® Dielectric
 Stabilizing Polyethylene Rods

Applications

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

A low-loss, extra-flexible 110 Ω AES/EBU digital audio twisted-pair, the DS401M features a data-grade foam polypropylene dielectric and offers low attenuation, an extended 25 MHz bandwidth and a precision 110 Ω impedance. The DS401M has an ultra-flexible design through its finely stranded copper conductors and braid shield. In addition, the DS401M features the Gepco® Brand G-Flex outer jacket compound that is both exceptionally flaccid and flexible. To stabilize the 110 Ω impedance when the cable is flexed, the DS401M features two solid polyethylene filler rods that maintain the mechanical geometry of the cable core. Characterized up to 25 MHz, the DS601M is rated for sampling rates up to 192 kHz.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Dielectric/Color Code	Fillers	Shield	Drain	Jacket (Type, Colors)	Approx. Weight
DS401M	1	0.235"	24 AWG (41x40) Stranded TC	Foam PE, 0.021" 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

Wide Bandwidth Single-Pair: Extra Flexible

Electrical Specifications

Impedance	Capacitance	Cond. DCR	Drain DCR	Attenuation (dB per 100 ft)				
				1 MHz	3 MHz	6 MHz	123 MHz	25 MHz
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

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110 Ω Single-Pair DS Series: 26 AWG Extra Flexible

Features & Benefits

- Extra Flexible
- Thin Profile
- Precision 110 Ω Impedance
- 25 MHz Bandwidth for 192 kHz Sampling Rates
- Foam Polypropylene Dielectric
- Stabilizing Polyethylene Rods

Applications

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

A thin profile, extra-flexible 110 Ω AES/EBU digital audio twisted-pair, the DS601M features a data-grade foam polypropylene dielectric and offers low attenuation, an extended 25 MHz bandwidth and a precision 110 Ω impedance. The DS601M has an ultra-flexible design through its finely stranded copper conductors and spiral serve shield. In addition, the DS601M features the Gepco® Brand G-Flex outer jacket compound that is both exceptionally flaccid and flexible. To stabilize the 110 Ω impedance when the cable is flexed, the DS601M features two solid polyethylene filler rods that maintain the mechanical geometry of the cable core. Characterized up to 25 MHz, the DS601M is rated for sampling rates up to 192 kHz.



Mechanical Specifications									
Part #	# of Pairs	Nominal OD	Conductors	Dielectric Color Code	Fillers	Shield	Drain Wire	Jacket (Type, Colors)	Approx. Weight
DS601M	1	0.199"	26 AWG (30x40) Stranded Oxygen-Free BC	Foam PP, 0.016" Wall/ White & Black	Solid Virgin Polyethylene Rods (2)	98% Oxygen-Free BC Spiral Serve	Yes	Flexible Matte PVC, Black	19 lbs/Mft
<i>Thin Profile 110 Ω Single-Pair: Extra Flexible</i>									
Electrical Specifications									
Impedance	Capacitance	Cond. DCR	Attenuation (dB per 100 ft)						
			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	0.65	1.50	2.70	4.60	7.80		

75 Ω AES3id, Word Clock & SPDIF Coax: Extra Flexible

Features & Benefits

Low Attenuation & Return Loss
 Low Jitter
 Precision 75 Ω Impedance
 4.5 GHz Bandwidth
 Gas-Injected Dielectric
 Extra Flexible

Applications

SPDIF
 AES3id
 Word Clock
 Rack Patching

The VHD2000M and VHD2001M are flexible, low-loss, precision coaxial cables for SPDIF or other 75 Ω digital audio applications that require flexibility in a nonpermanent installation application. Unlike conventional coax cable, VHD2000M and VHD2001M utilize a stranded center conductor, double-braid shield and ultra-flexible PVC jacket for excellent flexibility and flex-life. These cables feature the same low-loss, crush-resistant, gas-injection foam dielectric used in the Gepco® Brand high-definition video coax series. This dielectric process and compound reduce the occurrence of cable-induced bit-rate errors and jitter in the data stream through precision dimensions, uniform cell structure and minimized internal reflections and impedance mismatches.



Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	Approx. Weight
VHD2000M	1	0.242"	21 AWG (19x34) Stranded BC (Compact)	Gas-Injected Foam PE, 0.146"	95% TC Braid, 95% TC Braid	Flexible PVC	Black, Red, Orange, Yellow, Green, Blue, Violet	33 lbs/Mft
<i>Extra-Flexible RG59 HD Coax</i>								
VHD2001M	1	0.275"	19 AWG (19x32) Stranded BC (Compact)	Gas-Injected Foam PE, 0.182"	95% TC Braid, 95% TC Braid	Flexible PVC	Black	45 lbs/Mft
<i>Extra-Flexible RG6 HD Coax</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
VHD2000M	75 Ω (+/-3)	>20dB, >15dB	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)	>20dB, >15dB	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

75 Ω AES3id, Word Clock & SPDIF Coax

Features & Benefits

- Ultra-Low Attenuation & Return Loss
- Low Jitter
- Precision 75 Ω Impedance
- Gas-Injected Dielectric
- Broadband Dual Shield
- 4.5 GHz Bandwidth
- Multiple Sizes
- UL Riser Rated

Applications

- Word Clock
- SPDIF
- MADI
- AES3id
- Extended-Distance AES/EBU Runs via 110 Ω to 75 Ω Transformers

The same as the Gepco® Brand HD video series, these low-loss, low-jitter, precision impedance coaxial cables for Word Clock, AES3id, SPDIF or multiplexed digital audio formats utilize Gepco's 4.5 GHz gas-injected, low k constant dielectric and a precision-drawn, solid copper conductor. For comprehensive broadband shielding, a dual shield of foil and braid is used to protect against both high-frequency RF and EMI noise and interference. All electrical and mechanical characteristics are manufactured to precision tolerances and specifications to minimize attenuation, internal reflections and impedance mismatches. As a result, pulse rounding, bit-errors and jitter from the cable interconnection are minimized.



Mechanical Specifications																		
Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight									
VHD1100	1	0.405"	14 AWG Solid BC	Gas-Injected Foam PE, 0.285"	95% TC Braid, 100% Foil	PVC	Black, Others by Special Order	CMR	76 lbs/Mft									
<i>Extended-Distance RG11 Digital Coax</i>																		
VHD7000	1	0.320"	16 AWG Solid BC	Gas-Injected Foam PE, 0.223"	95% TC Braid, 100% Foil	PVC	Black, Others by Special Order	CMR	50 lbs/Mft									
<i>Extended-Distance RG7 Digital Coax</i>																		
VSD2001	1	0.272"	18 AWG Solid BC	Gas-Injected Foam PE, 0.180"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	42 lbs/Mft									
<i>Low-Loss RG6 Digital Coax</i>																		
VPM2000	1	0.242"	20 AWG Solid BC	Gas-Injected Foam PE, 0.146"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	35 lbs/Mft									
<i>Standard RG59 Digital Coax</i>																		
VDM230	1	0.164"	23 AWG Solid BC	Gas-Injected Foam PE, 0.100"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	18 lbs/Mft									
<i>Miniature 23 AWG Digital Coax</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
VHD1100	75 Ω (+/-2)	>23dB, >21dB	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
VHD7000	75 Ω (+/-2)	>23dB, >21dB	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)	>23dB, >21dB	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
VPM2000	75 Ω (+/-2)	>23dB, >21dB	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
VDM230	75 Ω (+/-2)	>23dB, >21dB	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

VIDEO CABLES

In This Section:

- 40** High-Definition SDI Coax
- 41** Direct Burial HDTV Coax
- 42** Miniature HDTV/SDI Coax
- 43** Ultra-Miniature HDTV/SDI Coax
- 44** Extra-Flexible High-Definition SDI Coax
- 45** Extra-Flexible Analog Coax
- 46** Precision Video Coax
- 47** Component RGB: Miniature Plenum
- 48** Component RGB: Miniature 25 AWG Stranded
- 49** Component RGB: Miniature 25 AWG Solid
- 50** Component RGB with 2 Audio Pairs
- 51** Component RGB with 4 Audio Pairs
& 4 Power Conductors
- 52** Video Snake: High-Definition Miniature
23 AWG
- 53** Video Snake: High-Definition RG59
- 54** Video Snake: High-Definition RG6
- 55** Video Snake: High-Definition RG7
- 56** Composite A/V: Thin Profile
- 57** Composite A/V: Low Loss

PRECISION CABLING TECHNOLOGY THAT DELIVERS YOUR CLEAREST VISION



Gas-Injected 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.

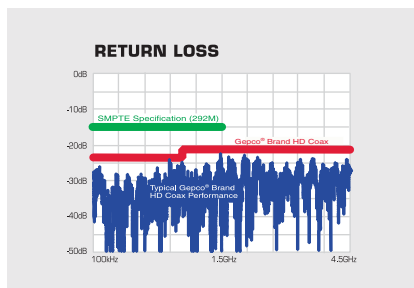
Industry-Leading Tolerances

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

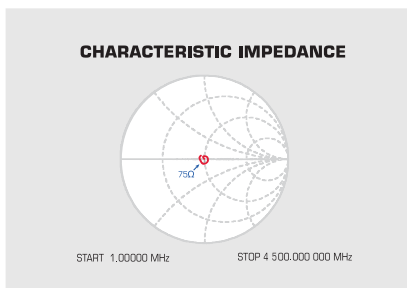
Meets or Exceeds Standards & 100% Sweep Tested

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



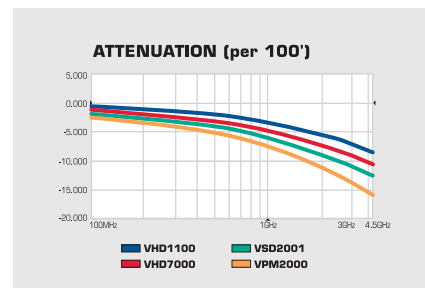
Precision Impedance Tolerances

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 $\pm 2 \Omega$ or $\pm 3 \Omega$ 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

Features & Benefits

Ultra-Low Attenuation & Return Loss
Precision 75 Ω Impedance
4.5 GHz Bandwidth for HDTV
High Velocity of Propagation
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)

The Gepco® Brand high-definition video coax series has been engineered to feature a 4.5 GHz bandwidth (for HDTV transmission), a gas-injected foam dielectric, lower attenuation, more RG types, excellent crush resistance, easy termination and a flexible jacket. 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. 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.



Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight
VHD1300	1	0.400"	13 AWG Solid BC	Gas-Injected Foam PE, 0.287"	92% TC Braid, 100% Foil	PVC	Black, Purple	CMR	92 lbs/Mft
<i>Extended-Distance 13 AWG HD Coax</i>									
VHD1100	1	0.405"	14 AWG Solid BC	Gas-Injected Foam PE, 0.285"	95% TC Braid, 100% Foil	PVC	Black, Others by Special Order	CMR	76 lbs/Mft
<i>Extended-Distance RG11 HD Coax</i>									
VHD1100F	1	0.400"	14 AWG (19x27) Stranded BC	Gas-Injected Foam PE, 0.287"	92% TC Braid, 100% Foil	TPE	Purple	—	75 lbs/Mft
<i>Extended-Distance RG11 HD Coax: Flexible</i>									
VHD1100TK	1	0.346"	14 AWG Solid BC	Gas-Injected Foam FEP, 0.285"	95% TC Braid, 100% Foil	PVDF	White, Others by Special Order	CMP	78 lbs/Mft
<i>Extended-Distance RG11 HD Coax: Plenum</i>									
VHD7000	1	0.320"	16 AWG Solid BC	Gas-Injected Foam PE, 0.223"	95% TC Braid, 100% Foil	PVC	Black, Others by Special Order	CMR	50 lbs/Mft
<i>Extended-Distance RG7 HD Coax</i>									
VSD2001	1	0.272"	18 AWG Solid BC	Gas-Injected Foam PE, 0.180"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	42 lbs/Mft
<i>Low-Loss RG6 HD Coax</i>									
VSD2001TS	1	0.237"	18 AWG Solid BC	Gas-Injected Foam FEP, 0.170"	95% TC Braid, 100% Foil	Plenum PVC	White, Others by Special Order	CMP	40 lbs/Mft
<i>Low-Loss RG6 HD Coax: Plenum</i>									
VPM2000	1	0.242"	20 AWG Solid BC	Gas-Injected Foam PE, 0.146"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	35 lbs/Mft
<i>Standard RG59 HD Coax</i>									
VPM2000TS	1	0.200"	20 AWG Solid BC	Gas-Injected Foam FEP, 0.135"	95% TC Braid, 100% Foil	Plenum PVC	White, Others by Special Order	CMP	32 lbs/Mft
<i>Standard RG59 HD Coax: Plenum</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		
VHD1300	75 Ω (+/-2)	>23dB, >21dB	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)	>23dB, >21dB	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)	>20dB, >15dB	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)	>23dB, >21dB	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)	>23dB, >21dB	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)	>23dB, >21dB	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)	>23dB, >21dB	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)	>23dB, >21dB	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)	>23dB, >21dB	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		

Direct Burial HDTV Coax

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
- Gas-Injected Foam Polyethylene or Teflon® 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)

The Gepco® Brand high-definition video coax series for direct burial features the same precision center conductor, gas-injected 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.



Mechanical Specifications																			
Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight										
VHD1100PEF	1	0.405"	14 AWG Solid BC	Gas-Injected Foam PE, 0.285"	95% TC Braid, 100% Foil	PE with Water Blocking Tape	Black	—	78 lbs/Mft										
<i>Low-Loss RG11 HD Coax: Direct Burial</i>																			
VSD2001PEF	1	0.272"	18 AWG Solid BC	Gas-Injected Foam PE, 0.180"	95% TC Braid, 100% Foil	PE with Water Blocking Tape	Black	—	40 lbs/Mft										
<i>Low-Loss RG6 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)	>23dB, >21dB	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)	>23dB, >21dB	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

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Miniature HDTV/SDI Coax

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
 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 gas-injected 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"	23 AWG Solid BC	Gas-Injected Foam PE, 0.100"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	18 lbs/Mft
<i>Miniature HD/SDI Coax: 23 AWG Solid</i>									
VDM230TS	1	0.164"	23 AWG Solid BC	Gas-Injected Foam FEP, 0.099"	95% TC Braid, 100% Foil	Plenum PVC	Black, White	CMP	22 lbs/Mft
<i>Miniature HD/SDI Coax: 23 AWG Solid Plenum</i>									
VDM250	1	0.154"	25 AWG (7x33) Stranded BC	Gas-Injected Foam PE, 0.099"	95% TC Braid, 100% Foil	PVC	Black	CMR	16 lbs/Mft
<i>Miniature SDI Coax: 25 AWG Stranded</i>									
VDM250D	2	0.154" x 0.315"	25 AWG (7x33) Stranded BC	Gas-Injected Foam PE, 0.099"	95% TC Braid, 100% Foil	Flexible Matte PVC	Black	—	33 lbs/Mft
<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 VDM230TS	75 Ω (+/-2)	>23dB, >21dB	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)	>21dB, —	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)	>21dB, —	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	—	—	—	—

Ultra-Miniature HDTV/SDI Coax

Features & Benefits

- Ultra-Thin Profile
- Low Weight
- More Durable Than Other Subminiature Types
- 4.5 GHz Bandwidth for HDTV
- Double Shield (Foil & Braid)
- Precision 75 Ω Impedance
- Gas-Injected Dielectric
- Easy to Terminate

Applications

- 1.485Gb/s HD Digital Video
- SDI Digital Video
- Analog Video
- Digital Audio
- Ideal for Mobile Production Trucks

The new VDM260 was designed to achieve exceptionally low weight and size, without sacrificing the critical electrical and mechanical properties that are required for reliable transmission in broadcast applications. Featuring a 26-gauge solid conductor, the VDM260 provides lower attenuation and superior mechanical integrity compared to other subminiature designs that utilize smaller, more fragile gauge types. In addition, VDM260 has a broadband foil and braid shield that offers better RF/EMI protection and greater structural integrity than serve type shields. For the insulating dielectric, VDM260 utilizes gas-injected PE, which provides exceptionally low attenuation and a 4.5 GHz bandwidth for HD video transmission.



Mechanical Specifications									
Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight
VDM260	1	.114"	26 AWG Solid BC	Gas-Injected Foam PE, 0.074"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CM	9 lbs/Mft

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	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
75 Ω (+/-3)	>23dB, >19dB	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

Extra-Flexible High-Definition SDI Coax

Features & Benefits

Extra Flexible
 4.5 GHz Bandwidth
 Low Attenuation & Return Loss
 Precision 75 Ω Impedance
 Gas-Injected, Foam Polyethylene 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

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 crush-resistant, gas-injected polyethylene compound 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.



Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	Approx. Weight
VHD2000M	1	0.242"	21 AWG (19x34) Stranded BC (Compact)	Gas-Injected Foam PE, 0.146"	95% TC Braid, 95% TC Braid	Flexible PVC	Black, Red, Orange, Yellow, Green, Blue, Violet	33 lbs/Mft
Extra-Flexible RG59 HD Coax								
VHD2001M	1	0.275"	19 AWG (19x32) Stranded BC (Compact)	Gas-Injected Foam PE, 0.182"	95% TC Braid, 95% TC Braid	Flexible PVC	Black	45 lbs/Mft
Extra-Flexible RG6 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)	>20dB, >15dB	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)	>20dB, >15dB	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

Extra-Flexible Analog Coax

Features & Benefits

- Extra-Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 1 GHz Bandwidth
- High Velocity of Propagation
- Extra Flexible
- Gas-Injected Foam Polyethylene 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

An extremely flexible, low-loss precision video coax, the VE61859M features the same gas-injected precision 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.



Mechanical Specifications

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

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	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
75 Ω (+/-3)	>20dB	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

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)

The original coax standard for broadcast or production quality analog video applications, the Gepco® Brand precision coax series features a 20-gauge solid (or 22-gauge 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.



Mechanical Specifications (Individual)

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket (Type, Colors)	UL Type	Approx. Weight
VP618PE	1	0.304"	20 AWG Solid BC	PE, 0.198"	Double Braid: 98% & 96% TC	PE, Black	—	75 lbs/Mft
20 AWG Precision Coax								
VP618M	1	0.304"	21 AWG (19x34) Stranded BC (Compact)	PE, 0.192"	Double Braid: 95% & 93% TC	Flexible Matte PVC, Black	—	78 lbs/Mft
20 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)	>23dB	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)	>23dB	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

Features & Benefits

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

Applications

- High-Resolution RGB Component Analog Video
- Permanent Installation

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.



Mechanical Specifications (Series)					
Conductors	Insulation (Type, OD)	Shield	Coax Jacket (Type, OD)	Master Jacket	UL Type
25 AWG (7x34) Stranded TC	Foam FEP, 0.072"	100% Foil, 95% TC Spiral Serve	Fluoropolymer, 0.102"	Plenum PVC, White	CL2P

Mechanical Specifications (Individual)					
Part #	# of Coaxials	Color Code	Nominal OD	Approx. Weight	
RGB250TS	3	Red, Green, Blue	0.260"	48 lbs/Mft	
RGBS250TS	4	Red, Green, Blue, Yellow	0.280"	64 lbs/Mft	
RGBSC250TS	5	Red, Green, Blue, Yellow, White	0.310"	80 lbs/Mft	
RGBHVC250TS	6	Red, Green, Blue, Yellow, White, Black	0.325"	96 lbs/Mft	

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)									
					1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	
75 Ω (+/-3)	>20dB, >15dB	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	

Component RGB: Miniature 25 AWG Stranded

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

This Gepco® Brand miniature RGB coax snake utilizes precision low-loss VDM250 type miniature coax. The 25-gauge stranded conductors with high velocity 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.



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"	95% TC Braid, 100% Foil	PVC, 0.154"	GEP-FLEX TPE, Black	CM

Mechanical Specifications (Individual)

Part #	# of Coaxials	Color Code	Nominal OD	Approx. Weight
RGB250	3	Red, Green, Blue	0.460"	80 lbs/Mft
RGBS250	4	Red, Green, Blue, Yellow	0.470"	110 lbs/Mft
RGBSC250	5	Red, Green, Blue, Yellow, White	0.560"	130 lbs/Mft
RGBHVC250	6	Red, Green, Blue, Yellow, White, Black	0.575"	160 lbs/Mft

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)	>21dB	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

Component RGB: Miniature 25 AWG Solid

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

This Gepco® Brand miniature RGB coax snake utilizes a precision low-loss 25-gauge solid miniature coax. The precision-drawn conductor with high velocity 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.



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"	95% TC Braid, 100% Foil	PVC, 0.115"	PVC, Black	CMR

Mechanical Specifications (Individual)				
Part #	# of Coaxials	Color Code	Nominal OD	Approx. Weight
RGB250S	3	Red, Green, Blue	0.325"	68 lbs/Mft
RGBS250S	4	Red, Green, Blue, Yellow	0.365"	79 lbs/Mft
RGBSC250S	5	Red, Green, Blue, Yellow, White	0.405"	90 lbs/Mft
RGBHVC250S	6	Red, Green, Blue, Yellow, White, Black	0.440"	105 lbs/Mft

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)	>15dB	17 pF/ft	31.0 Ω/8.0 Ω	81%	0.36	0.68	1.14	3.09	4.28	6.12	7.10	10.2	12.2	18.9	22.1

Component RGB with 2 Audio Pairs

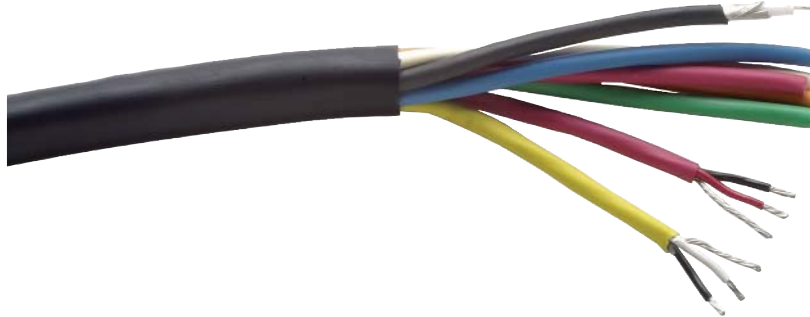
Features & Benefits

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

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-gauge 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.



Overall Specifications

Part #	# of Coaxials	# of Audio Pairs	Overall Jacket (Type, OD)	UL Type	Approx. Weight
RGB62	6	2	Flexible TPE, 0.430"	CM	85 lbs/Mft
<i>Component RGBHVC with 2 Balanced Audio Pairs</i>					
RGB62TS	6	2	Plenum PVC, 0.370"	CL2P	68 lbs/Mft
<i>Component RGBHVC with 2 Balanced Audio Pairs: Plenum</i>					

Coaxial Element 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"	100% Foil, 95% TC Braid	PVC, 0.114"	Red, Green, Blue, Black, Yellow, White	75 Ω	80%
RGB62TS	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	Foam FEP, 0.072"	100% Foil, 95% TC Braid	Plenum PVC, 0.102"	Red, Green, Blue, Black, Yellow, White	75 Ω	85%

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"	Red & Black, White & Black	100% Foil with 24 AWG (7x32) TC Drain Wire	PVC, 0.130"	One Red, One Black
RGB62TS	22 AWG (7x30) Stranded TC, 15.3 Ω/Mft	Plenum PVC, 0.044"	Red & Black, White & Black	100% Foil with 26 AWG (7x30) TC Drain Wire	Plenum PVC, 0.102"	One Red, One Black

See VDM260 (page 43) for detailed non-plenum coaxial electrical specifications (RGB62).

See RGBSC250TS (page 47) for detailed plenum coaxial electrical specifications (RGB62TS).

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-gauge conductors with a foil shield, drain wire and color coded jacket. Power elements are constructed from low-loss 20-gauge 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"	CM	125 lbs/Mft		
Component RGBHVC with 4 Audio Pairs & 4 Power Conductors								
RGB644TS	6	4	4	Plenum PVC, 0.415"	CL2P	105 lbs/Mft		
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"	100% Foil, 95% TC Braid	PVC, 0.114"	Red, Green, Blue, Black, Yellow, White	75 Ω	80%	
RGB644TS	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	Foam FEP, 0.072"	100% Foil, 95% TC Serve	Plenum PVC, 0.102"	Red, Green, Blue, Black, Yellow, White	75 Ω	85%	
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", Black & Red	100% Foil with 26 AWG (7x34) TC Drain Wire	PVC, 0.090"	Brown, Red, Orange, Yellow	20 AWG (7x28) Stranded TC, 10.1 Ω/Mft	PVC, 0.056"	Red, White, Black, Green
RGB644TS	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	Plenum PVC, 0.033", Black & Red	100% Foil with 26 AWG (7x34) TC Drain Wire	Plenum PVC, 0.090"	Brown, Red, Orange, Yellow	20 AWG (7x28) Stranded TC, 10.1 Ω/Mft	Plenum PVC, 0.053"	Red, White, Black, Green

See VDM260 (page 43) for detailed non-plenum coaxial electrical specifications (RGB644).
 See RGBSC250TS (page 47) for detailed plenum coaxial electrical specifications (RGB644TS).

Video Snake: High-Definition Miniature 23 AWG

Features & Benefits

Thin Profile
 Low Attenuation & Return Loss
 Precision 75 Ω Impedance
 4.5 GHz Bandwidth for HDTV
 High Velocity of Propagation
 Extra Flexible
 Gas-Injected Foam Polyethylene 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

Designed for multi-channel digital or analog video interconnect, the Gepco® 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 Gepco® 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.



Mechanical Specifications (Series)

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

Mechanical Specifications (Individual)

Part #	# of Coaxials	Color Code	Nominal OD	Approx. Weight
VS5230	5	Red, Green, Blue, Yellow, White	0.570"	150 lbs/Mft
VS10230	10	Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black	0.785"	315 lbs/Mft
VS12230	12	Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Black, Beige, Pink	0.800"	375 lbs/Mft
VS16230	16	Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Black, Beige, Pink, Neon Orange, Pumpkin Yellow, Lime Green, Dark Blue	0.885"	500 lbs/Mft

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)	>23dB, >21dB	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

Video Snake: High-Definition RG59

Features & Benefits

- Ultra-Low Attenuation & Return Loss
- RG59 VPM2000 HD Coax Elements
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation
- Gas-Injected Foam Polyethylene 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

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, gas-injected 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 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.



Mechanical Specifications (Series)				
Conductors	Insulation (Type, OD)	Shield	Coax Jacket (Type, OD)	Master Jacket
20 AWG Solid BC	Gas-Injected Foam PE, 0.146"	95% TC Braid, 100% Foil	PVC, 0.242"	TPE, Black

Mechanical Specifications (Individual)				
Part #	# of Coaxials	Color Code	Nominal OD	Approx. Weight
VS52000	5	Red, Green, Blue, Yellow, White	0.745"	260 lbs/Mft
VS102000	10	Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black	1.10"	520 lbs/Mft

Electrical Specifications					Attenuation (dB per 100 ft)												
Impedance	Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz)	Capacitance	Cond. DCR per Mft/Shield DCR per Mft	Vel. of Prop.	1	3.6	10	71.5	135	270	360	720	1	1.5	2.25	3	4.5
					MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	GHz	GHz	GHz	GHz	
75 Ω (+/-2)	>23dB, >21dB	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

Video Snake: High-Definition RG6

Features & Benefits

Ultra-Low Attenuation & Return Loss
 RG6 VSD2001 HD Coax Elements
 Precision 75 Ω Impedance
 4.5 GHz Bandwidth for HDTV
 High Velocity of Propagation
 Gas-Injected Foam Polyethylene 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

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, gas-injected 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.



Mechanical Specifications (Series)

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

Mechanical Specifications (Individual)

Part #	# of Coaxials	Color Code	Nominal OD	Master Jacket	UL Type	Approx. Weight
VS32001	3	Red, Green, Blue	0.735"	Riser GEP-FLEX TPE, Black	CMR	182 lbs/Mft
VS42001	4	Red, Green, Blue, Yellow	0.790"	Riser GEP-FLEX TPE, Black	CMR	230 lbs/Mft
VS52001	5	Red, Green, Blue, Yellow, White	0.845"	Riser GEP-FLEX TPE, Black	CMR	295 lbs/Mft
VS102001	10	Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black	1.25"	TPE, Black	—	600 lbs/Mft

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)	>23dB, >21dB	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

Video Snake: High-Definition RG7

Features & Benefits

- Ultra-Low Attenuation & Return Loss
- RG7 VHD7000 HD Coax Elements
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation
- Gas-Injected Foam Polyethylene 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

A multi-conductor version of VHD7000 high-definition video coax, the Gepco® Brand VS57000 also features low attenuation, a 4.5 GHz HD bandwidth, gas-injected 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.



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"	16 AWG Solid BC	Gas-Injected Foam PE, 0.223"	95% TC Braid, 100% Foil	PVC, 0.320"	Red, Green, Yellow, Orange, Brown	TPE, Black	400 lbs/Mft

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)	>23dB, >21dB	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

VIDEO CABLES
P800.966.0069 P 847.795.9555 F 847.795.8770 www.gepco.com

Composite A/V: Thin Profile

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

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-gauge 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.



Coax Mechanical Specifications

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

Single-Pair Mechanical Specifications

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

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"	95 lbs/Mft
VA2/3TP	2	Black & White	3	Brown, Red & Orange (Base 10)	0.485"	115 lbs/Mft

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)	>21dB	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

Composite A/V: Low Loss

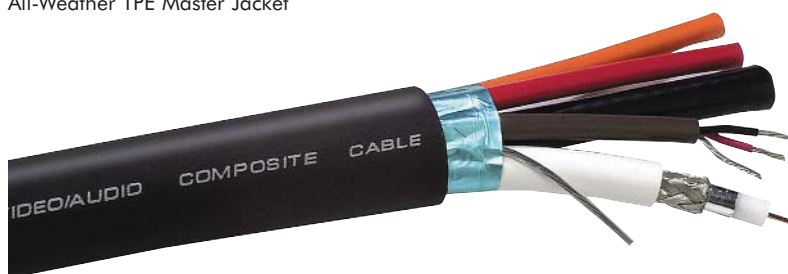
Features & Benefits

- 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

A multi-element coax and twisted-pair snake cable, the Gepco® Brand VA2 series utilizes low-loss, high-definition RG59 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-gauge 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.



Coax Mechanical Specifications			
Conductor	Insulation (Type, OD)	Shield	Coax Jacket (Type, OD)
20 AWG Solid BC	Foam PE, 0.146"	95% TC Braid, 100% Foil	PVC, 0.242"

Single-Pair Mechanical Specifications					
Conductor	Insulation (Type, OD)	Color Code	Shield	Drain	Jacket (Type, OD)
22 AWG (7x30) Stranded TC	PE, 0.008"	Red & Black	100% Foil (Bonded)	22 AWG (7x30) Stranded TC	PVC, 0.138"

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"	168 lbs/Mft
VA2/4	2	Black & White	4	Brown, Red, Orange & Yellow (Base 10)	0.630"	173 lbs/Mft
VA2/5	2	Black & White	5	Brown, Red, Orange, Yellow & Green (Base 10)	0.640"	186 lbs/Mft

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)	>23dB, >21dB	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

CAMERA & FIBER OPTIC CABLES

In This Section:

- 60** Flexible Studio/Remote Triax
- 61** Permanent-Installation Triax
- 62** 9.2mm Hybrid Fiber Optic
- 63** 9.2mm Hybrid Fiber Optic: Heavy Duty
- 64** 12mm Heavy-Duty Hybrid Fiber Optic
- 65** 16mm Heavy-Duty Hybrid Fiber Optic
- 66** 3-Channel Permanent-Installation Hybrid Fiber
- 67** HD Camera Electrical
- 68** Single-Mode Fiber Optic: Tactical
- 69** Multi-Mode Fiber Optic: Tactical
- 70** Single-Mode Fiber Optic: Permanent Installation
- 71** Multi-Mode Fiber Optic: Permanent Installation

HIGH-BANDWIDTH FIBER & TRIAXIAL CABLES 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's proprietary gas-injection process 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 SMPTE hybrid fiber cables by Gepco 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-resistance properties as the operating temperature increases.

Electrical Characteristics & Specifications

Meets or Exceeds SMPTE Standards

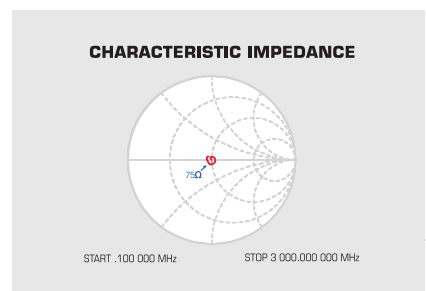
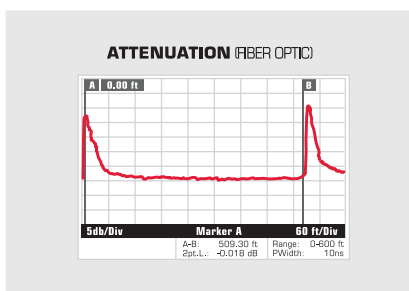
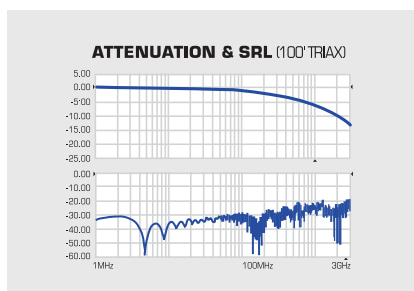
All Gepco Brand triax and hybrid fiber cables meet or exceed SMPTE standards for camera interconnections. In addition, all triax is 100% sweep tested for return loss, attenuation, bandwidth, and impedance.

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 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

Features & Benefits

Ultra-Low Attenuation
 Precision 75 Ω Impedance
 3 GHz Bandwidth
 Low Structural Return Loss
 High Velocity of Propagation
 Flexible
 Crush-Resistant Dielectric
 Gas-Injected Foam Polyethylene 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

An extra-flexible triaxial camera cable, 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 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



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"	14 AWG (19x27) Stranded BC	Gas-Injected Foam PE, 0.312"	95% BC Braid	TPR, 0.392"	95% BC Braid	TPE	Black, Red, Yellow, Green, Blue	136 lbs/Mft
<i>Extended-Distance RG11 Flexible Triax</i>										
LVT61859	1	0.360"	20 AWG Solid BC	Gas-Injected Foam PE, 0.146"	95% BC Braid	TPR, 0.216"	95% BC Braid	TPE	Black, Red, Yellow, Green, Blue, Violet	80 lbs/Mft
<i>Thin Profile RG59 Flexible Triax</i>										
LVT61859S	1	0.360"	21 AWG (19x34) Stranded BC (Compact)	Gas-Injected Foam PE, 0.146"	95% BC Braid	TPR, 0.216"	95% BC Braid	TPE	Black, Red, Blue	80 lbs/Mft
<i>Thin Profile RG59 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)	>22dB, >15dB	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)	>22dB, >15dB	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)	>22dB, >15dB	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

Permanent-Installation Triax

Features & Benefits

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

Applications

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

Designed for permanent installation in conduit, plenum air spaces or outdoor environments, Gepco® Brand permanent install triax features a precision-drawn, copper conductor and 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.



Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Inner Shield	Inner Belt (Type, OD)	Outer Shield	Jacket	UL Type	Approx. Weight
VT12PPE	1	0.726"	12 AWG (7x22) Stranded BC	Gas-Injected Foam PE, 0.375"	90% TC Braid	LDPE 0.463"	90% BC Braid	Double Jacket PVC, Red (Inner); PE, Black (Outer)	—	270 lbs/Mft
<i>Double-Jacketed, 12 AWG Triax</i>										
VT61811	1	0.475"	14 AWG Solid BC	Gas-Injected Foam PE, 0.285"	93% BC Braid	FRPE, 0.365"	93% BC Braid	PVC, Black	CMR	120 lbs/Mft
<i>Extended-Distance RG11 Triax</i>										
VT61811PEF	1	0.475"	14 AWG Solid BC	Gas-Injected Foam PE, 0.285"	93% BC Braid	LDPE, 0.365"	93% BC Braid	PE with Water Blocking Tape, Black	—	125 lbs/Mft
<i>Extended-Distance RG11 Triax: Direct Burial</i>										
VT61811TK	1	0.413"	14 AWG Solid BC	Gas-Injected Foam FEP, 0.285"	93% BC Braid	PVDF, 0.350"	90% BC Braid	PVDF, White	CMP	122 lbs/Mft
<i>Extended-Distance RG11 Triax: Plenum</i>										
VT61859	1	0.360"	20 AWG Solid BC	Gas-Injected Foam PE, 0.146"	95% BC Braid	FRPE, 0.216"	95% BC Braid	PVC, Black	CMR	80 lbs/Mft
<i>Thin Profile RG59 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
VT12PPE	75 Ω (+/-3)	>20dB, >15dB	16.2 pF/ft	1.6 Ω	1.0 Ω/0.9 Ω	83%	0.07	0.12	0.22	0.63	0.80	1.20	1.52	2.35	2.89	3.73	4.92	6.03
VT61811	75 Ω (+/-3)	>22dB, >15dB	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)	>22dB, >15dB	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)	>20dB, >15dB	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)	>22dB, >15dB	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

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9.2mm Hybrid Fiber Optic

Features & Benefits

Ultra-Low Attenuation
 SMPTE 311M 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
 Extra-Flexible TPE or Riser Rated PVC Jacket

Applications

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

Gepco® Brand fiber optic and copper conductor SMPTE 311M hybrid cable is available for high-definition video cameras. In the hybrid 311M 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-gauge 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 outer jacket is a flexible, riser rated PVC for permanent installation applications. 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.



Mechanical Specifications (General)

Part #	Nominal OD	Master Jacket (Type, Colors)	Overall Shield	UL Type	Approx. Weight
HDC920	9.2mm	Flexible TPE, Black	95% TC Braid	—	90 lbs/Mft
		<i>Extra-Flexible 9.2mm Hybrid Camera Cable</i>			
HDC920R	9.2mm	PVC, Black	95% TC Braid	CMR	91 lbs/Mft
		<i>Permanent Install 9.2mm Hybrid Camera Cable</i>			

Mechanical Specifications (Components)

Component	Number	Type	Insulation (Type, OD)	Color Code
Optical	2	Single Mode 8.3 μ m Mode Field, 125 μ m Cladding	CPE Tight Buffer, 0.9mm	One Blue, One Yellow
Signal	2	24 AWG (7x32) Stranded TC	PE, 0.045"	One Red, One Gray
Auxiliary	4	20 AWG (19x32) Stranded TC	PE, 0.060"	Two White, Two Black
Strength Member	1	16 AWG Stranded Steel	PVC, 0.084"	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
<0.50 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)	311M Compliant (Meets or Exceeds)

9.2mm Hybrid Fiber Optic: Heavy Duty

Features & Benefits

- Ultra-Low Attenuation
- SMPTE 311M 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

Gepeco® Brand extra-durable 9.2mm 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.



Mechanical Specifications (General)							
Part #	Nominal OD	Master Jacket (Type, Colors)	Overall Shield	Approx. Weight			
HDC920HD	9.2mm	Polyurethane, Black	95% TC Braid	95 lbs/Mft			
Heavy-Duty 9.2mm 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" Finished O.D.	One Blue, One Yellow			
Signal	2	24 AWG (7x32) Stranded TC	PE, 0.045"	One Red, One Gray			
Auxiliary	4	20 AWG (19x32) Stranded TC	PE, 0.060"	Two White, Two Black			
Strength Member	1	16 AWG Stranded Steel	PVC, 0.084"	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
<0.50 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)	311M Compliant (Meets or Exceeds)

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12mm Heavy-Duty Hybrid Fiber Optic

Features & Benefits

Ultra-Low Attenuation
 SMPTE 311M 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

Gepeco® Brand extra-durable 12mm 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.



Mechanical Specifications (General)

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

Mechanical Specifications (Components)

Component	Number	Type	Insulation (Type, OD)	Color Code
Optical	2	Single-Mode Fiber Optic (8.3 μm Mode Field, 125 μm Cladding)	CPE Fiber Coating, Kevlar® Wrap, Tight Tube PVC Jacket, 0.062" Finished O.D.	One Blue, One Yellow
Signal	2	24 AWG (19x36) Stranded TC	PE, 0.044"	One Red, One Gray
Auxiliary	2	16 AWG (65x34) Stranded TC	PE, 0.084"	One White, One Black
Strength Member	1	16 AWG Stranded Steel	PVC, 0.087"	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
<0.50 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)	311M Compliant (Meets or Exceeds)

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16mm Heavy-Duty Hybrid Fiber Optic

Features & Benefits

- Ultra-Low Attenuation
- SMPT E 311M 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

Gepco® Brand fiber optic and copper conductor SMPTE 311M hybrid cable is available for high-definition video cameras. In the hybrid 311M 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-gauge 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.



Mechanical Specifications (General)

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

Mechanical Specifications (Components)

Component	Number	Type	Insulation (Type, OD)	Color Code
Optical	2	Single Mode 8.3 μm Mode Field, 125 μm Cladding	CPE Tight Buffer, 0.9mm	One Blue, One Yellow
Signal	2	24 AWG (7x32) Stranded TC	PE, 0.045"	One Red, One Gray
Auxiliary	4	20 AWG (19x32) Stranded TC	PE, 0.060"	Two White, Two Black
Strength Member	1	16 AWG Stranded Steel	PVC, 0.084"	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
<0.50 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)	311M Compliant (Meets or Exceeds)

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3-Channel Permanent-Installation Hybrid Fiber

Features & Benefits

Unique Hybrid Composite Construction

Low-Loss Single-Mode Optical Fiber

Three Groups of Fiber and Copper Elements

Interconnects up to Three SMPTE 304M Based HD Camera Systems

Cost Effective

UL Riser Rated

Applications

High-Definition Camera to CCU Interconnects

Permanent Installation

Geppo® 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.



Mechanical Specifications (General)

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

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 (8.3 μ m Mode Field, 125 μ m Cladding)	PVC Fiber Coating, Kevlar® Wrap, Tube PVC Jacket, 3mm Finished O.D.	Yellow with Alphanumeric Print
Signal	6 (3 Groups of 2)	24 AWG (17x32) Stranded TC	PVC, 0.040"	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"	One White, One Black (Solid or with Yellow or Orange Stripe)
Shield	3 (1 per Group)	100% Foil with 24 AWG (7x32) Stranded TC Drain	—	—

Electrical & Optical Specifications

Fiber Attenuation	Signal Conductor DCR	Power Conductor DCR	Insulation Resistance (Power or Signal)	Dielectric Strength (Power or Signal)	Operating Temperature
<0.50 dB/km @ 1310/1550nm	23.8 Ω /Mft	6.0 Ω /Mft	>10M Ω /km	3000 Volts RMS @ 20°C, 60Hz for 1 min.	-40°C to +75°C (@ 0 to 95% humidity)

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HD Camera Electrical

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

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.



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"	16 AWG (65x34) Stranded TC	PE, 0.020"	22 AWG (19x34) Stranded TC	PE, 0.015"	90% TC Braid	PVC, Black	CMR	76 lbs/Mft
<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, 60Hz for 1 min.	-40°C to +75°C (@ 0 to 95% humidity)	Compliant with Electrical Specifications for SMPTE 311M				

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Single-Mode Fiber Optic: Tactical

Features & Benefits

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

Applications

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

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.



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	Acrylate Tight Buffer Coating (0.9mm 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"	1,800 lbs	600 lbs	3.2"	1.6"	15 lbs/Mft
								4	0.220"	1,800 lbs	600 lbs	3.6"	1.8"	19 lbs/Mft
								6	0.240"	1,800 lbs	600 lbs	3.8"	1.9"	19 lbs/Mft
								8	0.260"	1,800 lbs	600 lbs	4.2"	2.1"	26 lbs/Mft
								10	0.260"	2,100 lbs	700 lbs	4.2"	2.1"	30 lbs/Mft
								12	0.260"	2,100 lbs	700 lbs	4.2"	2.1"	34 lbs/Mft
								18	0.300"	2,400 lbs	800 lbs	4.8"	2.4"	40 lbs/Mft
								24	0.330"	3,000 lbs	1,000 lbs	5.4"	2.7"	50 lbs/Mft
<i>Tactical Single-Mode Fiber: Distribution</i>														
FSB**T	Acrylate Tight Buffer Coating (0.9mm 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"	2,200 lbs	550 lbs	4.2"	2.1"	21 lbs/Mft
								4	0.290"	2,200 lbs	550 lbs	4.6"	2.3"	28 lbs/Mft
								6	0.340"	2,400 lbs	600 lbs	5.4"	2.7"	36 lbs/Mft
								8	0.390"	3,200 lbs	800 lbs	6.2"	3.1"	50 lbs/Mft
								10	0.450"	4,000 lbs	1,000 lbs	7.2"	3.6"	59 lbs/Mft
								12	0.480"	4,800 lbs	1,200 lbs	7.6"	3.8"	65 lbs/Mft
								18	0.570"	7,200 lbs	1,800 lbs	9.2"	4.6"	73 lbs/Mft
								24	0.570"	9,600 lbs	2,400 lbs	9.2"	4.6"	105 lbs/Mft
<i>Tactical Single-Mode Fiber: Breakout</i>														

Multi-Mode Fiber Optic: Tactical

Features & Benefits

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

Applications

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

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.



Fiber Specifications														
Type	Mode Field Diameter				Cladding Diameter				Maximum Attenuation					
Multi-Mode	62.5 µm				125 µm				≤ 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	Nominal OD	Tensile Load		Minimum Bend Radius		Weight
										Short Term	Long Term	Installation (Pulling)	Operating	
FMD**T * = Number of Elements	Acrylate Tight Buffer Coating (0.9mm 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"	1,800 lbs	600 lbs	3.2"	1.6"	15 lbs/Mft
								4	0.220"	1,800 lbs	600 lbs	3.6"	1.8"	19 lbs/Mft
								6	0.240"	1,800 lbs	600 lbs	3.8"	1.9"	19 lbs/Mft
								8	0.260"	1,800 lbs	600 lbs	4.2"	2.1"	26 lbs/Mft
								10	0.260"	2,100 lbs	700 lbs	4.2"	2.1"	30 lbs/Mft
								12	0.260"	2,100 lbs	700 lbs	4.2"	2.1"	34 lbs/Mft
								18	0.300"	2,400 lbs	800 lbs	4.8"	2.4"	40 lbs/Mft
Tactical Multi-Mode Fiber: Distribution														
FMB**T * = Number of Elements	Acrylate Tight Buffer Coating (0.9mm 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"	2,200 lbs	550 lbs	4.2"	2.1"	21 lbs/Mft
								4	0.290"	2,200 lbs	550 lbs	4.6"	2.3"	28 lbs/Mft
								6	0.340"	2,400 lbs	600 lbs	5.4"	2.7"	36 lbs/Mft
								8	0.390"	3,200 lbs	800 lbs	6.2"	3.1"	50 lbs/Mft
								10	0.450"	4,000 lbs	1,000 lbs	7.2"	3.6"	59 lbs/Mft
								12	0.480"	4,800 lbs	1,200 lbs	7.6"	3.8"	65 lbs/Mft
								18	0.570"	7,200 lbs	1,800 lbs	9.2"	4.6"	73 lbs/Mft
24	0.570"	9,600 lbs	2,400 lbs	9.2"	4.6"	105 lbs/Mft								
Tactical Multi-Mode Fiber: Breakout														

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Single-Mode Fiber Optic: Permanent Installation

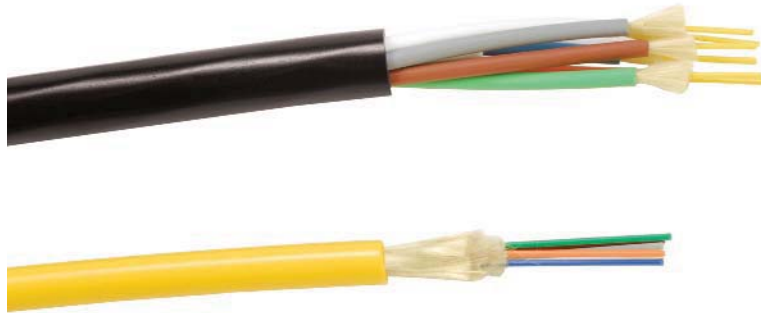
Features & Benefits

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

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.



Fiber Specifications

Type	Mode Field Diameter	Cladding Diameter	Maximum Attenuation
Single-Mode	8.3 μm	125 μm	≤ 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 (0.9mm OD) with Overall Aramid Filler	2	0.180"	PVC	310 lbs	100 lbs	2.7"	1.8"	14 lbs/Mft	OFNR
		4	0.200"	PVC	310 lbs	100 lbs	3.0"	2.0"	17 lbs/Mft	
		6	0.220"	PVC	310 lbs	100 lbs	3.3"	2.2"	19 lbs/Mft	
		8	0.240"	PVC	360 lbs	120 lbs	3.6"	2.4"	22 lbs/Mft	
		12	0.260"	PVC	600 lbs	135 lbs	3.9"	2.6"	25 lbs/Mft	
		24	0.330"	PVC	670 lbs	220 lbs	5.0"	3.3"	44 lbs/Mft	
		36	0.350"	PVC	670 lbs	220 lbs	5.3"	3.5"	51 lbs/Mft	
<i>Single-Mode Distribution: Riser Rated</i>										
FSD**P	Acrylate Tight Buffer Coating (0.9mm OD) with Overall Aramid Filler	2	0.160"	Plenum PVC	270 lbs	90 lbs	2.4"	1.6"	9 lbs/Mft	OFNP
		4	0.180"	Plenum PVC	270 lbs	90 lbs	2.7"	1.8"	11 lbs/Mft	
		6	0.200"	Plenum PVC	310 lbs	100 lbs	3.0"	2.0"	15 lbs/Mft	
		8	0.220"	Plenum PVC	360 lbs	120 lbs	3.3"	2.2"	19 lbs/Mft	
		12	0.220"	Plenum PVC	400 lbs	135 lbs	3.3"	2.2"	19 lbs/Mft	
		24	0.280"	PVDF	670 lbs	220 lbs	4.2"	4.2"	36 lbs/Mft	
		36	0.310"	PVDF	670 lbs	220 lbs	4.7"	4.7"	52 lbs/Mft	
<i>Single-Mode Distribution: Plenum Rated</i>										
FSB**R	Acrylate Tight Buffer Coating (0.9mm OD) with Aramid Filler & PVC Tube Jacket for Each Fiber	1 (Simplex)	0.110"	PVC	110 lbs	70 lbs	2.0"	1.2"	5 lbs/Mft	OFNR
		2 (Duplex)	0.110"x0.230"	PVC	220 lbs	110 lbs	2.0"	1.2"	11 lbs/Mft	
		2	0.280"	PVC	270 lbs	110 lbs	4.2"	2.8"	34 lbs/Mft	
		4	0.310"	PVC	450 lbs	180 lbs	4.7"	3.1"	44 lbs/Mft	
		6	0.370"	PVC	670 lbs	270 lbs	5.6"	3.7"	55 lbs/Mft	
		8	0.450"	PVC	900 lbs	380 lbs	6.8"	4.5"	75 lbs/Mft	
		12	0.490"	PVC	1350 lbs	560 lbs	7.4"	4.9"	101 lbs/Mft	
24	0.690"	PVC	2250 lbs	850 lbs	0.4"	6.9"	183 lbs/Mft			
36	0.790"	PVC	3150 lbs	1350 lbs	11.9"	7.9"	214 lbs/Mft			
<i>Single-Mode Breakout: Riser Rated</i>										
FSB**P	Acrylate Tight Buffer Coating (0.9mm OD) with Aramid Filler & Plenum PVC or PVDF Tube Jacket for Each Fiber	1 (Simplex)	0.110"	Plenum PVC	110 lbs	70 lbs	2.0"	1.2"	6 lbs/Mft	OFNP
		2 (Duplex)	0.110"x0.230"	Plenum PVC	220 lbs	110 lbs	2.0"	1.2"	12 lbs/Mft	
		2	0.240"	PVDF	360 lbs	90 lbs	3.6"	3.6"	23 lbs/Mft	
		4	0.240"	PVDF	360 lbs	90 lbs	3.6"	3.6"	23 lbs/Mft	
		6	0.280"	PVDF	540 lbs	130 lbs	4.2"	4.2"	32 lbs/Mft	
		8	0.330"	PVDF	720 lbs	180 lbs	5.0"	5.0"	48 lbs/Mft	
		12	0.390"	PVDF	1080 lbs	270 lbs	5.9"	5.9"	63 lbs/Mft	
24	0.510"	PVDF	1620 lbs	400 lbs	7.7"	7.7"	99 lbs/Mft			
36	0.630"	PVDF	2160 lbs	540 lbs	9.5"	9.5"	154 lbs/Mft			
<i>Single-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 82.

Multi-Mode Fiber Optic: Permanent Installation

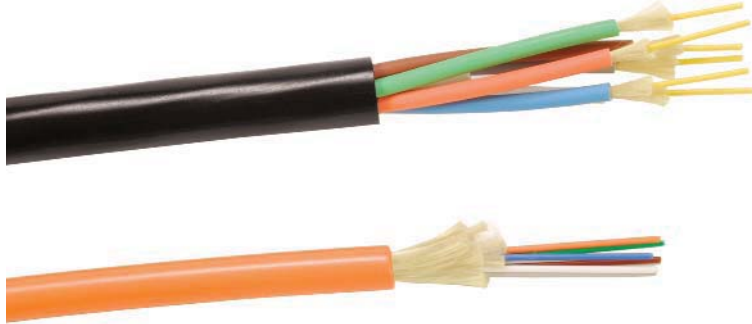
Features & Benefits

- 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

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.



Fiber Specifications										
Type	Mode Field Diameter			Cladding Diameter			Maximum Attenuation			
Multi-Mode	62.5 μm			125 μm			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 (0.9mm OD) with Overall Aramid Filler	2	0.180"	PVC	310 lbs	100 lbs	2.7"	1.8"	14 lbs/Mft	OFNR
		4	0.200"	PVC	310 lbs	100 lbs	3.0"	2.0"	17 lbs/Mft	
		6	0.220"	PVC	310 lbs	100 lbs	3.3"	2.2"	19 lbs/Mft	
		8	0.240"	PVC	360 lbs	120 lbs	3.6"	2.4"	22 lbs/Mft	
		12	0.260"	PVC	600 lbs	135 lbs	3.9"	2.6"	25 lbs/Mft	
		24	0.330"	PVC	670 lbs	220 lbs	5.0"	3.3"	44 lbs/Mft	
		36	0.350"	PVC	670 lbs	220 lbs	5.3"	3.5"	51 lbs/Mft	
<i>Multi-Mode Distribution Fiber: Riser Rated</i>										
FMD**P	Acrylate Tight Buffer Coating (0.9mm OD) with Overall Aramid Filler	2	0.160"	Plenum PVC	270 lbs	90 lbs	2.4"	1.6"	9 lbs/Mft	OFNP
		4	0.180"	Plenum PVC	270 lbs	90 lbs	2.7"	1.8"	11 lbs/Mft	
		6	0.200"	Plenum PVC	310 lbs	100 lbs	3.0"	2.0"	15 lbs/Mft	
		8	0.220"	Plenum PVC	360 lbs	120 lbs	3.3"	2.2"	19 lbs/Mft	
		12	0.220"	Plenum PVC	400 lbs	135 lbs	3.3"	2.2"	19 lbs/Mft	
		24	0.280"	PVDF	670 lbs	220 lbs	4.2"	4.2"	36 lbs/Mft	
		36	0.310"	PVDF	670 lbs	220 lbs	4.7"	4.7"	52 lbs/Mft	
<i>Multi-Mode Distribution Fiber: Plenum Rated</i>										
FMB**R	Acrylate Tight Buffer Coating (0.9mm OD) with Aramid Filler & PVC Tube Jacket for Each Fiber	1 (Simplex)	0.110"	PVC	110 lbs	70 lbs	2.0"	1.2"	5 lbs/Mft	OFNR
		2 (Duplex)	0.110"x0.230"	PVC	220 lbs	110 lbs	2.0"	1.2"	11 lbs/Mft	
		2	0.280"	PVC	270 lbs	110 lbs	4.2"	2.8"	34 lbs/Mft	
		4	0.310"	PVC	450 lbs	180 lbs	4.7"	3.1"	44 lbs/Mft	
		6	0.370"	PVC	670 lbs	270 lbs	5.6"	3.7"	55 lbs/Mft	
		8	0.450"	PVC	900 lbs	380 lbs	6.8"	4.5"	75 lbs/Mft	
		12	0.490"	PVC	1350 lbs	560 lbs	7.4"	4.9"	101 lbs/Mft	
		24	0.690"	PVC	2250 lbs	850 lbs	0.4"	6.9"	183 lbs/Mft	
36	0.790"	PVC	3150 lbs	1350 lbs	11.9"	7.9"	214 lbs/Mft			
<i>Multi-Mode Breakout Fiber: Riser Rated</i>										
FMB**P	Acrylate Tight Buffer Coating (0.9mm OD) with Aramid Filler & Plenum PVC or PVDF Tube Jacket for Each Fiber	1 (Simplex)	0.110"	Plenum PVC	110 lbs	70 lbs	2.0"	1.2"	6 lbs/Mft	OFNP
		2 (Duplex)	0.110"x0.230"	Plenum PVC	220 lbs	110 lbs	2.0"	1.2"	12 lbs/Mft	
		2	0.240"	PVDF	360 lbs	90 lbs	3.6"	3.6"	23 lbs/Mft	
		4	0.240"	PVDF	360 lbs	90 lbs	3.6"	3.6"	23 lbs/Mft	
		6	0.280"	PVDF	540 lbs	130 lbs	4.2"	4.2"	32 lbs/Mft	
		8	0.330"	PVDF	720 lbs	180 lbs	5.0"	5.0"	48 lbs/Mft	
		12	0.390"	PVDF	1080 lbs	270 lbs	5.9"	5.9"	63 lbs/Mft	
		24	0.510"	PVDF	1620 lbs	400 lbs	7.7"	7.7"	99 lbs/Mft	
		36	0.630"	PVDF	2160 lbs	540 lbs	9.5"	9.5"	154 lbs/Mft	
<i>Multi-Mode Breakout Fiber: 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 82.

NETWORK CABLES

In This Section:

- 74** Enhanced Category 6 Network
- 75** Premium Category 6 Network
- 76** Enhanced Category 5e Network
- 77** Heavy-Duty Tactical Category 5e Network
- 78** Multi-Channel Heavy-Duty Tactical Category 5e Snake
- 79** DMX Lighting Control

SYSTEM-SPECIFIC DESIGNS THAT DELIVER COMPLETE DATA & NETWORKING 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; 99.999% oxygen-free copper; or precision-drawn solid copper. These conductor types provide maximum conductivity for high-frequency data signal transmission.

System-Specific Designs

Networking and data systems often have unique interconnect requirements. The mechanical and electrical performance of each cable is designed to meet the specific requirement of each system type or industry format.

Electrical Characteristics & Specifications

Meets or Exceeds Industry Standards

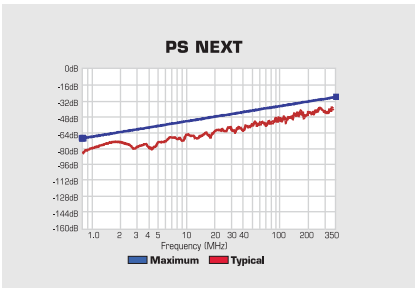
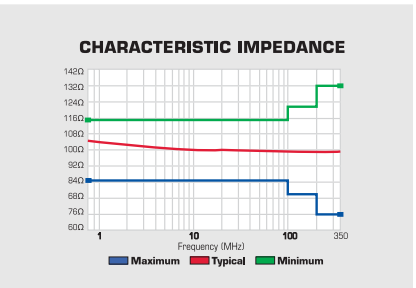
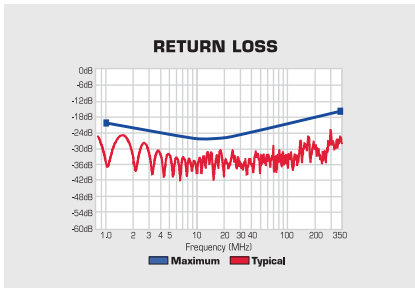
Each cable is designed to meet or exceed all relevant industry or manufacturer standards. This ensures compatibility and consistent performance in networking, touch panel, audio and video systems.

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 TIA/EIA-568-C.2 performance standards.



Enhanced Category 6 Network

Features & Benefits

Innovative Cross-Web Design
 Allowing for Maximum Pair
 Separation, Increasing Key Electrical
 Performance Parameters

Performance Guaranteed to
 350 MHz

TRU-Mark® Print Legend Contains
 Footage Markings from 1000' to 0'

Characterized up to or Beyond
 TIA/EIA 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

Gepco® Brand CT604/250 Enhanced Category 6 Cables feature extended bandwidths and precision tolerances to meet or exceed the latest TIA/EIA 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. Available in plenum and riser constructions, Gepco Enhanced Category 6 cables may be installed in a variety of applications and environments.



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
CT604/250	4	0.235"	23 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"	32 lbs	CMR	28 lbs/Mft
<i>Enhanced Category 6 Four-Pair 250 MHz</i>											
CT604/250P	4	0.225"	23 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"	32 lbs	CMP	31 lbs/Mft
<i>Enhanced Category 6 Four-Pair 250 MHz: Plenum</i>											

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/100m (328ft)	4.0%	100 Ω (+/-15)	38 ns/100m, 35 ns/100m	68%, 70%	0°C to +60°C, -20°C to +75°C	Meets or Exceeds TIA/EIA-568-C.2 Cat 6, ISO/IEC 11801 Ed. 2.0																				
TIA 568.C.2 Performance (Gray Column) Guaranteed Performance (White Column)																											
Freq. (MHz)	1	4	10	16	20	31.25	62.5	100	150	200	250	350	500														
Insertion Loss (dB/100m) (max)	2.0	2.0	3.8	3.8	6.0	5.9	7.6	7.5	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/100m) (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/100m) (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) (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) (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/100m) (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/100m) (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	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	—	19.8	—	19.0
LCL (dB/100m) (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/100m) (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	—	—	—	—	—

Premium Category 6 Network

Features & Benefits

- Engineered with Precision Balance to Offer Ultimate Headroom
- High-End Optimized Performance to Support the Most Bandwidth-Intense Applications
- New and Improved Separator Construction Allowing for More Pair Separation
- Performance Guaranteed to 350 MHz
- TRU-Mark® Print Legend Contains Footage Markings from 1000' to 0'
- Characterized up to or Beyond TIA/EIA 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

Gepco® Brand CT604/500 Enhanced Category 6 Cables feature extended bandwidths and precision tolerances to meet or exceed the latest TIA/EIA 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. Available in plenum and riser constructions, Gepco Enhanced Category 6 cables may be installed in a variety of applications and environments.



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
CT604/500	4	0.260"	23 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"	50 lbs	CMR	30 lbs/Mft
<i>Premium Category 6 Four-Pair 500 MHz</i>											
CT604/500P	4	0.250"	23 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"	50 lbs	CMP	32 lbs/Mft
<i>Premium Category 6 Four-Pair 500 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																	
CT604/500 Series	8.9 Ω/100m (328ft)	3.0%	100 Ω (+/-15)	45 ns/100m	70%, 72%	0°C to +60°C, -20°C to +75°C	Meets or Exceeds TIA/EIA-568-C.2 Cat 6, ISO/IEC 11801 Ed. 2.0																	
TIA 568.C.2 Performance (Gray Column) Guaranteed Performance (White Column)																								
Freq. (MHz)	1	4	10	16	20	31.25	62.5	100	200	250	350	500												
Insertion Loss (dB/100m) (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/100m) (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/100m) (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) (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) (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/100m) (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/100m) (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
LCL (dB/100m) (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	—	—	—	—
ELTCL (dB/100m) (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	—	—	—	—

Enhanced Category 5e Network

Features & Benefits

For Applications that Require Optimal Cat5e Performance with Flexibility for the Future

Performance Guaranteed to 350 MHz

Low Insertion Loss, Crosstalk, & Return Loss

TRU-Mark® Print Legend Contains Footage Markings from 1000' to 0'

Characterized up to or Beyond TIA/EIA Standards

Third Party Verified for Guaranteed Performance

Rip Cord Under Jacket

Riser & Plenum Versions

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

Gepco® Brand CT504/350 Enhanced Category 5e Cables feature extended bandwidths and precision tolerances to meet or exceed the latest TIA/EIA 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. Available in plenum and riser constructions, Gepco Enhanced Category 5e cables may be installed in a variety of applications and environments.



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"	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
Enhanced Category 5e Four-Pair 350 MHz											
CT504/350P	4	0.180"	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
Enhanced Category 5e Four-Pair 350 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														
CT504/350 Series	8.9 Ω/100m (328ft)	3.0%	100 Ω (+/-15)	45 ns/100m	70%, 72%	0°C to +60°C, -20°C to +75°C	Meets or Exceeds TIA/EIA-568-C.2 Cat 5e, ISO/IEC 11801 Ed. 2.0														
							Freq. (MHz)	1	4	10	16	20	25	31.25	62.5	100	155	200	250	300	350
							Insertion Loss (dB/100m) (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/100m) (min)	63.3	52.3	43.9	39.1	36.6	34.0	31.3	21.6	13.6	4.7	—	—	—	—
							ACR (dB/100m) (min)	64.3	53.3	44.9	40.1	37.6	35.0	32.3	22.6	14.6	5.7	—	—	—	—
							PSNEXT (dB/100m) (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
							NEXT (dB/100m) (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/100m) (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/100m) (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	—	—	—	—	—

Heavy-Duty Tactical Category 5e Network

Features & Benefits

- Durable TPE Outer Jacket
- Extra-Flexible and Low-Loss Versions
- Unique Inner Belt Maintains Electrical Characteristics in Portable Applications
- Meets or Exceeds ISO/IEC 11801 Standard for Cat5e Patch Cable (CT504HD)
- Meets or Exceeds ISO/IEC & TIA Standard for Cat5e Cable (CT504HDX)
- 100 MHz Bandwidth
- Terminates with Neutrik® EtherCon® Connectors

Applications

- Ethernet Network Patching
- For Portable Use or Remote Environments

Featuring exceptional durability through a unique double jacket construction, Gepco® Brand CT504HD and CT504HDX offer a heavy-duty tactical Category 5e solution for portable or remote patching of Ethernet networks or digital audio/video formats. In both cable versions, the inner jacket allows the pair to have proper physical spacing to achieve ISO/IEC Cat5e specifications, while the durable TPE outer jacket protects the cable from physical damage or abuse. The stranded conductors of the CT504HD provides extra-flexibility, while the solid conductors of the CT504HDX provides lower attenuation that allows for the full recommended TIA distances for Cat5e network cable. The CT504HD series can be terminated with either standard Cat 5 RN45 connectors or the ruggedized Neutrik® etherCON® connectors.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation	Pair Color Code	Inner Jacket (Type, OD)	Outer Jacket	UL Type	Weight
CT504HD	4	0.260"	24 AWG (41x40) Stranded TC	PE	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Clear TPE, 0.190"	Black TPE	AWM Style 21144	26 lbs/Mft
<i>Heavy-Duty Tactical Cat5e Network: Extra Flexible</i>									
CT504HDX	4	0.245"	24 AWG Solid BC	PE	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Clear TPE, 0.190"	Black TPE	AWM Style 21144	26 lbs/Mft
<i>Heavy-Duty Tactical Cat5e Network: Low Loss</i>									

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/100m	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/100m)	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/100m)	61.3	59.3	47.2	40.1	37.6	32.0	28.9	25.7	22.4	9.9	-0.7
							PSACRF (dB/100m)	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	28.6 Ω/Mft	5%	17 pF/ft	100 Ω	45 ns/100m	69%	Meets or Exceeds TIA/EIA-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/100m)	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/100m)	62.2	60.3	49.2	43.0	40.8	36.1	33.5	30.9	28.2	18.4	10.3
							PSACRF (dB/100m)	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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Multi-Channel Heavy-Duty Tactical Category 5e Snake

Features & Benefits

Unique 2- and 4-Channel Cat5e Snake
 Exceptionally Durable
 Flexible TPE Outer Jacket
 Double Jacketed Cat5e Elements
 Meets or Exceeds ISO/IEC & TIA Standards for Cat5e Cable
 Solid 24 AWG Conductors
 Terminates with Neutrik® EtherCon®

Applications

Ethernet Network Patching
 For Portable Use or Remote Environments

The unique Gepco® Brand multi-channel, heavy-duty Cat5e snake is ideal for applications that require multiple or redundant channels of Cat5e cables in remote production or staging applications. The CTS504HDX series consists of two or four elements of Gepco's CT504HDX heavy-duty, four-pair Cat5e UTP cables under an overall jacket. Each element features 24-gauge, solid-copper conductors and a unique inner belt that preserves the critical pair spacing and geometry. For added strength and diameter, each four-pair UTP element has a second TPE jacket which is color coded for easy identification. The outer jacket is also constructed from a rugged TPE compound for exceptional durability and flexibility in hostile environments. Each Cat5e four-pair UTP element can be terminated with either standard Cat 5 RJ45 connectors or the ruggedized Neutrik® EtherCon® connectors.



Mechanical Specifications

Part #	# of Cat 5 Elements	Outer (Master) Jacket (Type, OD)	Conductors	Insulation	Pair Color Code	Cat5e Element Inner Jacket (Type, OD)	Cat5e Element Outer Jacket (Type, OD)	Weight
CTS2504HDX	2 (4 Pair UTP)	Black TPE, 0.599"	24 AWG Solid BC	PE	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Clear TPE, 0.190"	Black & Gray TPE, 0.245"	89 lbs/Mft
<i>Heavy-Duty Tactical Category 5e Snake: Two Channels</i>								
CTS4504HDX	4 (4 Pair UTP)	Black TPE, 0.650"	24 AWG Solid BC	PE	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Clear TPE, 0.190"	Black, Gray, Blue & Purple TPE, 0.245"	200 lbs/Mft
<i>Heavy-Duty Tactical Category 5e Snake: Four Channels</i>								

Electrical Specifications

DCR Max	DCR Unbal. Max	Mutual Capac. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop.	Standards							
28.6 Ω	5%	17 pF/ft	100 Ω	45 ns/100m	69%	Meets or Exceeds TIA/EIA-568-B.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/100m)		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/100m)		62.2	60.3	49.2	43.0	40.8	36.1	33.5	30.9	28.2	18.4	10.3
	PSACRF (dB/100m)		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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DMX Lighting Control Cable

Features & Benefits

- True DMX512 Construction (DLC224)
- 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)
- Durable, Flexible, All-Weather Jacket

Applications

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

The Gepco® Brand DLC series lighting control cable is a true DMX cable with an exceptionally durable and flexible construction. The DLC224 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 DLC124 and DLC224 feature an all-weather, extra-flexible TPE jacket that is tough, abrasion resistant and remains flexible in hot or cold temperature environments.



Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductors	Insulation/Color Code	Shield	Drain Wire	Jacket	Approx. Weight
DLC124	2	0.241"	24 AWG (7x32) Stranded TC	Foam PE, 0.020" Wall/ Black & White	100% Foil, 90% TC Braid	24 AWG (7x32) Stranded TC	Flexible All-Weather TPE, Black	33 lbs/Mft
<i>DMX Lighting Control Cable: 1 Pair</i>								
DLC224	4	0.270"	24 AWG (7x32) Stranded TC	Foam PE, 0.020" Wall/ Black & White, Red & Blue	100% Foil, 90% TC Braid	24 AWG (7x32) Stranded TC	Flexible All-Weather TPE, Black	44 lbs/Mft
<i>DMX512 Lighting Control Cable: 2 Pair</i>								

Electrical Specifications

Part #	Capacitance	Characteristic Impedance	Cond. DCR	Shield & Drain DCR
DLC124	10.4 pF/ft Between Conductors, 18.7 pF/ft Between One Conductor and Other Tied to Shield	120 Ω	23.2 Ω/Mft	3.0 Ω/Mft
DLC224	12 pF/ft Between Conductors, 21.6 pF/ft Between One Conductor and Other Tied to Shield	120 Ω	23.8 Ω/Mft	3.0 Ω/Mft

Recommended Pinout for 5-Pin XLR:

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

Audio, Video, Fiber and Custom Assemblies

Gepco® International manufactures a complete range of 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 USA with premium connectors and can be produced in standard or custom configurations.

Cable Types for Almost Any Application

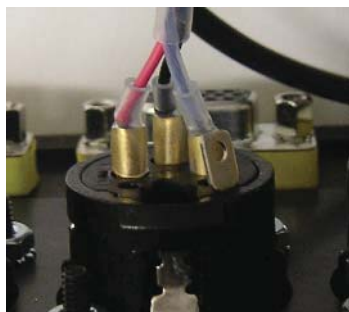
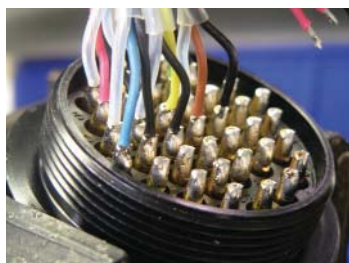
Our audio, video and fiber cable assemblies can be produced from almost any of Gepco's broad range of cables and distributed connector brands. From multi-pair audio snakes to precision video cables, from component video snakes to hybrid fiber camera cables, Gepco can provide cable assembly solutions 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

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.



Gepco audio assemblies and breakout systems include:

- Microphone
- Speaker
- Guitar/Instrument
- Patchcords
- 110 Ohm Digital Audio Single-Pair
- 110 Ohm Digital Audio Snakes
- GEP-FLEX Multi-Pair Audio Snakes
- X-Band Multi-Pair Audio Snakes
- DT12 Snakes
- DT12 Fanouts
- DT12 Breakout Boxes
- Stage Box Snakes

LEMO is a registered trademark of Interlema Holding, S.A. Neutrik is a registered trademark of Neutrik AG. ADC is a registered trademark of ADC Telecommunication, Inc. Kings is a registered trademark of Kings Electronics Company, Inc.

Audio, Video, Fiber and Custom Assemblies



VIDEO ASSEMBLIES & BREAKOUT SYSTEMS

Cables terminated with connectors for professional video applications

Precision Termination Methods

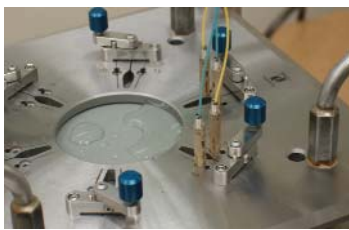
Gepco video cable assemblies are also built with durable and proven termination methods. Most video connector types are terminated by hand, utilizing precision automated strippers and crimpers to achieve the exact mechanical specifications of the individual connector type.

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
- SVHS/HDMI/DVI
- Patchcords
- HD Video Snakes
- Composite Audio/Video Snakes
- VGA Breakout
- V-CON Multi-Channel
- V-CON Multi-Channel Breakout Boxes
- V-CON Multi-Channel Distribution Racks
- 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 304M/311M Hybrid Fiber Optic
- Hybrid Fiber Breakout
- Neutrik® opticalCON®
- TAC-4 & TAC-12
- ST/SC/LC Tactical Snakes
- ST/SC/LC Permanent Install Snakes
- Hybrid Fiber Breakout Boxes & Racks
- Hybrid Fiber Fusion Splice Boxes & Racks
- SMPTE Field and Studio Boxes
- V-CON Multi-Channel Distribution Racks
- Modular Hybrid Fiber & Triax Panels
- 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
- Multi-Pin Assemblies
- Blunt at One End for Permanent Installation on Location
- Pre-Wired Custom Panels
- Customized Breakout Boxes
- High-Volume OEM Supplier
- Multiple Cable Types Under a Single Expandable Sleeving Jacket
- Cable Repairs

Neutrik and opticalCON are registered trademarks of Neutrik AG.

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:

$$\text{O.D. of Cable Bundle} = 1.155 \times \text{O.D. of Cable} \times \sqrt{n}$$

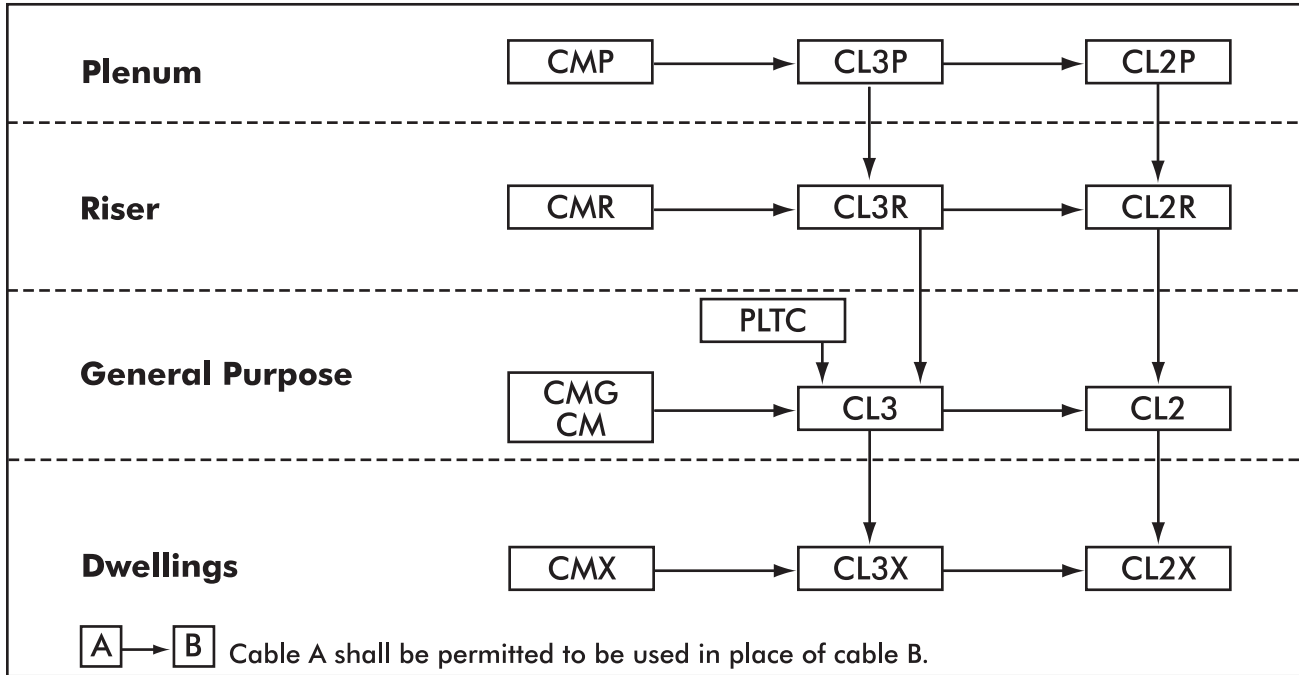
(where n is the number of cables)

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 Connector Cross Reference

BNC Connector Cross Reference			
Gepeco® Brand Cable Part Number	Kings®	ADC®	Gepeco®
RGB250, RGBS250, RGBSC250, RGBHVC250	2065-11-9	BNC-13	BNC-XL-1
RGB250S, RGBS250S, RGBSC250S, RGBHVC250S	2065-29-9	BNC-16	N/A
RGB260TS, RGBS260TS, RGBSC260TS, RGBHVC260TS	2065-29-9	BNC-16	N/A
RGB62	2065-29-9	BNC-16	N/A
RGB62TS	2065-29-9	BNC-16	N/A
RGB644	2065-29-9	BNC-16	N/A
RGB644TS	2065-29-9	BNC-16	N/A
RGB6C5, RGB6C52	2065-11-9	BNC-13	BNC-XL-1
RGB6C5TS	2065-29-9	BNC-16	N/A
VA2/2TP, VA2/3TP	2065-11-9	BNC-13	BNC-XL-1
VA2/3, VA2/4, VA2/5	2065-2-9	BNC-1	BNC-XL-2
VB1860/VB1890	2065-10-9	BNC-8	BNC-XL-3
VB1890TS	2065-10-9	BNC-10	BNC-XL-3
VB2095	2065-2-9	BNC-1	BNC-XL-2
VB5020	755-114-9	N/A	N/A
VC1460/VB1490TK	2065-8-9	BNC-25	N/A
VC1895	2065-10-9	BNC-8	BNC-XL-3
VC1895TS	2065-10-9	BNC-10	BNC-XL-3
VC2095 Series (Non-Plenum)	2065-2-9	BNC-1	BNC-XL-2
VC2095TS	2065-2-9	BNC-6	BNC-XL-2
VDM230, VS5230	2065-11-9	BNC-13	BNC-XL-1
VDM250	2065-11-9	BNC-13	BNC-XL-1
VDM250D	2065-11-9	BNC-13	BNC-XL-1
VDM260	2065-29-9	BNC-16	N/A
VE61859M	2065-2-9	BNC-1	BNC-XL-2
VHD1100, VHD1100F, VHD1100PEF	2065-8-9	BNC-25	N/A
VHD1100TK	2065-8-9	BNC-25	N/A
VHD1300	N/A	N/A	BNC-XL-6
VHD2000M	2065-2-9	BNC-1	BNC-XL-2
VHD7000	2065-12-9	BNC-27	N/A
VJ59U	2065-7-9	BNC-2	N/A
VP618M	2065-6-9	BNC-4	N/A
VP618PE	2065-6-9	BNC-4	N/A
VPM2000	2065-2-9	BNC-1	BNC-XL-2
VPM2000TS/TK	2065-2-9	BNC-6	BNC-XL-2
VRC13	2065-2-9	BNC-1	BNC-XL-2
VRC618	2065-2-9	BNC-1	N/A
VS102000, VS52000	2065-2-9	BNC-1	BNC-XL-2
VS102001	2065-10-9	BNC-8	BNC-XL-3
VS10230, VS12230, VS16230	2065-11-9	BNC-13	BNC-XL-1
VS32001, VS42001, VS52001	2065-10-9	BNC-8	BNC-XL-3
VS57000	2065-12-9	BNC-27	N/A
VSD2001, VSD2001PEF	2065-10-9	BNC-8	BNC-XL-3
VSD2001TS	2065-10-9	BNC-10	BNC-XL-3

Appendix F: DIN Connector Cross Reference

DIN Connector Cross Reference		
Gepeco® Brand Cable Part Number	Kings®	Gepeco®
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.

Appendix F: RCA Connector Cross Reference

RCA Connector Cross Reference			
Geppo® Brand Cable Part Number	Kings®	ADC®	Canare®
RGB250, RGBS250, RGBSC250, RGBHVC250	3345-3-9	CRCA-13	RCAP-C25F
RGB250S, RGBS250S, RGBSC250S, RGBHVC250S	3345-4-9	CRCA-16	N/A
RGB260TS, RGBS260TS, RGBSC260TS, RGBHVC260TS	3345-4-9	CRCA-16	N/A
RGB62	3345-4-9	CRCA-16	N/A
RGB62TS	3345-4-9	CRCA-16	N/A
RGB644	3345-4-9	CRCA-16	N/A
RGB644TS	3345-4-9	CRCA-16	N/A
RGB6C5, RGB6C52	3345-3-9	CRCA-13	RCAP-C25F
RGB6C5TS	3345-4-9	CRCA-16	N/A
VA2/2TP, VA2/3TP	3345-3-9	CRCA-13	RCAP-C25F
VA2/3, VA2/4, VA2/5	3345-1-9	CRCA-1	RCAP-C4F
VB1860/VB1890	3345-2-9	CRCA-8	RCAP-C53
VB1890TS	3345-2-9	CRCA-8	RCAP-C53
VB2095	3345-1-9	CRCA-1	RCAP-C4F
VB5020	N/A	N/A	N/A
VC1460/VB1490TK	N/A	N/A	N/A
VC1895	3345-2-9	CRCA-8	RCAP-C53
VC1895TS	3345-2-9	CRCA-8	RCAP-C53
VC2095 Series (Non-Plenum)	3345-1-9	CRCA-1	RCAP-C4F
VC2095TS	3345-1-9	CRCA-1	RCAP-C4F
VDM230, VS5230	3345-3-9	CRCA-13	RCAP-C25F
VDM250	3345-3-9	CRCA-13	RCAP-C25F
VDM250D	3345-3-9	CRCA-13	RCAP-C25F
VDM260	3345-4-9	CRCA-16	N/A
VE61859M	3345-1-9	CRCA-1	RCAP-C4F
VHD1100, VHD110VHD1100TK, VHD1100PEF	N/A	N/A	N/A
VHD2000M	3345-1-9	CRCA-1	RCAP-C4F
VHD7000	N/A	N/A	N/A
VJ59U	N/A	N/A	N/A
VP618M	N/A	N/A	RCAP-C77
VP618PE	N/A	N/A	RCAP-C77
VPM2000	3345-1-9	CRCA-1	RCAP-C4F
VPM2000TS/TK	3345-1-9	N/A	RCAP-C4F
VRC13	3345-1-9	CRCA-1	RCAP-C4F
VRC618	3345-1-9	CRCA-1	RCAP-C4F
VS102000, VS52000	3345-1-9	CRCA-1	RCAP-C4F
VS102001	3345-2-9	CRCA-8	RCAP-C53
VS10230, VS12230, VS16230	3345-3-9	CRCA-13	RCAP-C25F
VS32001, VS42001, VS52001	3345-2-9	CRCA-8	RCAP-C53
VS57000	N/A	N/A	N/A
VSD2001, VSD2001PEF	3345-2-9	CRCA-8	RCAP-C53
VSD2001TS	3345-2-9	CRCA-8	RCAP-C53

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

AIM is a registered trademark of AIM Electronics Corporation. Canare is a registered trademark of Canare Electric Co., Ltd. ADC is a registered trademark of ADC Telecommunication, Inc.

Appendix F: Camera Cable Connector Cross Reference

Triax Connector Reference Chart											
Gepco 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								
Gepco Part Number	Lemo® Part Numbers						Fiber Contacts	
	Cable Mount		Panel Mount			Socket (Round)		Plug
	Plug	Socket	Plug	Socket	Socket (Round)			
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				
Gepco Part Number	Canare® Part Numbers			
	Cable Mount		Panel Mount	
	Plug	Socket	Plug	Socket
HDC920, HDC920R	FCF	FCM	FCFRC	FCMRC

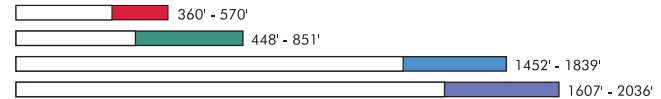
Kings and Tri-Loc are registered trademarks of Kings Electronics Company, Inc. ADC and ProAx are trademarks of ADC Telecommunication, Inc. LEMO is a registered trademark of Interlemon Holding, S.A. Canare is a registered trademark of Canare Electric Co., Ltd.

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.

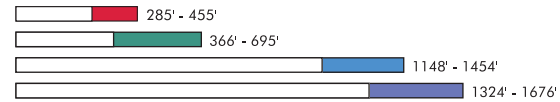
VHD1100



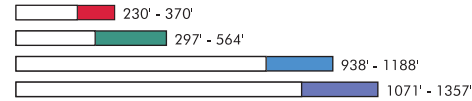
VHD1100TK



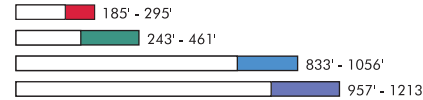
VHD7000



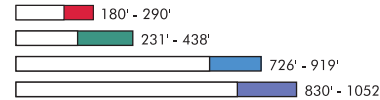
VSD2001



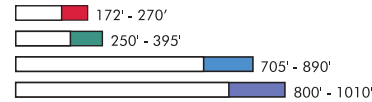
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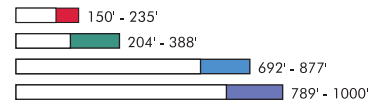
VPM2000



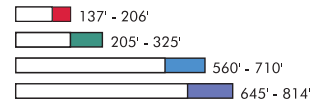
VHD2001M



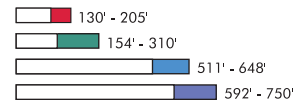
VPM2000TS



VHD2000M



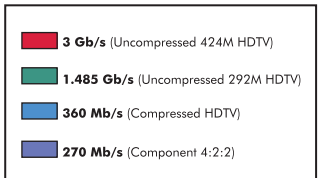
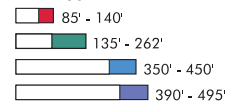
VDM230



VDM250



VDM260



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 adjacent circuits.

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.

GEPCO-FLEX—Gepeco® 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 ductwork 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.

Part Number Index

Part Number	Page	Part Number	Page	Part Number	Page
1200	26	FMD**R	71	RGBS250	48
1400	26	FMD**T	69	RGBS250S	49
1600	26	FSB**P	70	RGBS250TS	47
1800	26	FSB**R	70	RGBSC250	48
6600	13	FSB**T	68	RGBSC250S	49
1200HS	26	FSD**P	70	RGBSC250TS	47
122HBW	24	FSD**R	70	VA2/2TP	56
124HBW	24	FSD**T	68	VA2/3	57
1400HS	26	GA61802GFC	6	VA2/3TP	56
142HBW	24	GA61804GFC	6	VA2/4	57
144HBW	24	GA61806GFC	6	VA2/5	57
1600HS	26	GA61806PEF	11	VDM230TS	42
1600S	27	GA61808GFC	6	VDM230	37, 42
1800HS	26	GA61812GFC	6	VDM250	42
1800S	27	GA61812PEF	11	VDM250D	42
61801EZ	14	GA61816GFC	6	VDM260	43
61801HS	14	GA61820GFC	6	VE61859M	45
6600HS	13	GA61826GFC	6	VHD1100	37, 40
6604HS	12	GA61832GFC	6	VHD1100F	40
6606HS	12	GA72402GFC	7	VHD1100PEF	41
6608HS	12	GA72404GFC	7	VHD1100TK	40
6612HS	12	GA72408GFC	7	VHD1300	40
72401EZ	15	GA72412GFC	7	VHD2000M	36, 44
CT504/350	76	GA72412TP	8	VHD2001M	36, 44
CT504/350P	76	GA72416GFC	7	VHD7000	37, 40
CT504HD	77	GA72426GFC	7	VP618M	46
CT504HDX	77	GA72432GFC	7	VP618PE	46
CT604/250	74	GLC20	21	VPM2000	37, 40
CT604/250P	74	GSC102OFC	23	VPM2000TS	40
CT604/500	75	GSC122OFC	23	VS102000	53
CT604/500P	75	GSC132	25	VS102001	54
CTS2504HDX	78	GSC134	25	VS10230	52
CTS4504HDX	78	GSC138	25	VS12230	52
D61801EZGF	14	HDC120P	64	VS16230	52
D72401EZGF	15	HDC160	65	VS32001	54
DLC124	79	HDC3R	66	VS42001	54
DLC224	79	HDC920	62	VS52000	53
DS401	32	HDC920HD	63	VS52001	54
DS401D	32	HDC920R	62	VS5230	52
DS401M	34	HDP221	67	VS57000	55
DS401TS	32	LVT61811	60	VSD2001	37, 40
DS404	30	LVT61859	60	VSD2001PEF	41
DS408	30	LVT61859S	60	VSD2001TS	40
DS412	30	M1042	17	VT12PPE	61
DS601	33	MM1024	19	VT61811	61
DS601D	33	MP1022	20	VT61811PEF	61
DS601M	35	MP1201	19	VT61811TK	61
DS604	31	RGB250	48	VT61859	61
DS608	31	RGB250S	49	XB201DBM	18
DS612	31	RGB250TS	47	XB201M	18
DS616	31	RGB62	50	XB20UB	22
DS624	31	RGB62TS	50	XB401	16
DT61812	10	RGB644	51	XB401FB	16
FMB**P	71	RGB644TS	51	XB404	9
FMB**T	69	RGBHVC250	48	XB408	9
FMD**P	71	RGBHVC250S	49	XB412	9
FMD**P	71	RGBHVC250TS	47	XB416	9

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