



Professional Audio, Video & Data Cable Products

CATALOG G10

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COMPANY HISTORY

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

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

As Gepco begins its next quarter of a century as the leading manufacturer of audio, video and network cabling solutions, the company 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 cable delivers the performance and reliability needed in leading-edge, studio and live-production applications.

PRECISION ENGINEERED

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



ANALOG AUDIO CABLES

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CABLING TECHNOLOGY FOR HIGH RESOLUTION ANALOG AUDIO INTERCONNECTIONS



Low-loss Dielectric Compounds

The dielectric material insulates each conductor and affects the high-frequency loss of the cable. Gepco 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.

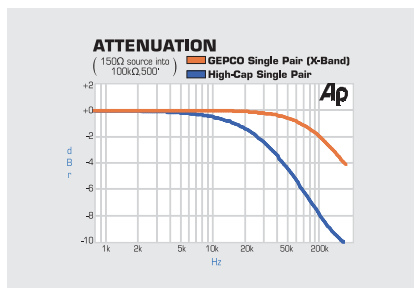
Easy to Terminate

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

Electrical Characteristics & Specifications

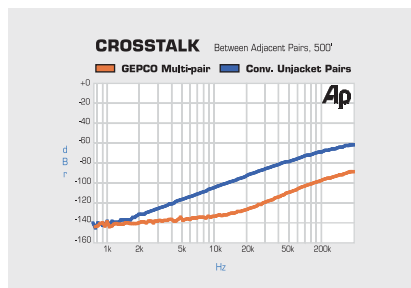
Bandwidth & Low Attenuation

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



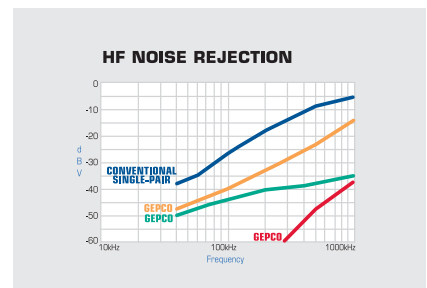
Minimal Crosstalk

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.



Multi-pair: GEP-FLEX 22 Gage

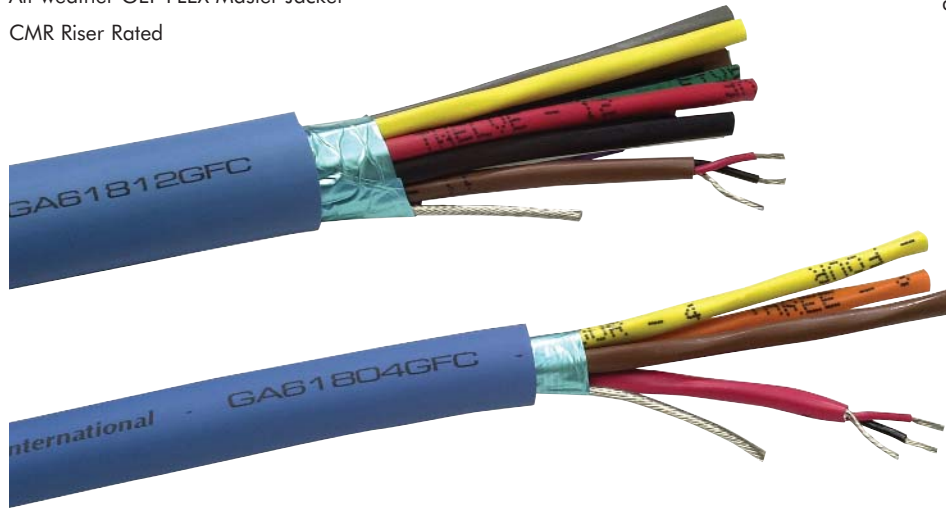
Features & Benefits

- 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 multi-pair cable. Designed for low noise and attenuation, GA series multi-pair is durable, easy to terminate, and UL listed. A high-grade polyethylene dielectric is used to minimize high frequency attenuation, while excellent process control and tight pair twisting achieves superior noise rejection. Color coded and alphanumericly printed pairs facilitate easy channel identification, and the new riser-rated GEP-FLEX master jacket is both flexible and easy to pull through conduit. The 22 gage conductors offer the lowest DCR available in any of our 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, .010" Wall/Red & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC, .140"/Base 10 (See Color Code Chart 1, Page 98)	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	.360"	67 lbs/Mft
GA61804GFC	4	.400"	95 lbs/Mft
GA61806GFC	6	.475"	121 lbs/Mft
GA61808GFC	8	.570"	159 lbs/Mft
GA61812GFC	12	.635"	217 lbs/Mft
GA61816GFC	16	.710"	263 lbs/Mft
GA61820GFC	20	.800"	315 lbs/Mft
GA61826GFC	26	.840"	387 lbs/Mft
GA61832GFC	32	.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 Gage

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

This thin profile version, easy-strip Gepco multi-pair. Designed for low noise and attenuation, GA series multi-pair is durable, easy to terminate, and UL listed. A high-grade polyethylene dielectric is used to minimize high frequency attenuation, while excellent process control and tight pair twisting achieves 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. Twenty-four gage conductors are easier to terminate while still maintaining low DCR. Ideal for cable assemblies, patchbay wiring, or portable snakes.



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, .008" Wall/Red & Black	100% Foil (Bonded)	24 AWG (7x32) Stranded TC	PVC, .115"/Base 10 (See Color Code Chart 1, Page 98)	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	.320"	62 lbs/Mft
GA72404GFC	4	.405"	88 lbs/Mft
GA72408GFC	8	.500"	134 lbs/Mft
GA72412GFC	12	.595"	198 lbs/Mft
GA72416GFC	16	.664"	225 lbs/Mft
GA72426GFC	26	.830"	363 lbs/Mft
GA72432GFC	32	.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 Twelve-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

Smallest profile in twelve-pair audio. Designed for low noise and attenuation, GA series multi-pair is durable, easy to terminate, and UL listed. A high-grade polyethylene dielectric is used to minimize high frequency attenuation, while excellent process control and tight pair twisting achieves 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. Twenty-four gage conductors are easier to terminate while still maintaining low DCR. 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	.510"	24 AWG (7x32) Stranded TC	PE, .010" Wall/ Red & Black	100% Foil (Bonded)	24 AWG (7x32) Stranded TC	PVC, .105"/Black, Alpha-numeric 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
- New 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.



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, .012" Wall/ One White, One Black	95% TC Braid	24 AWG (41x40) Stranded TC	Flexible Matte PVC .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	.490"	115 lbs/Mft
XB408	8	.580"	176 lbs/Mft
XB412	12	.738"	270 lbs/Mft
XB416	16	.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 Twelve-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

Twelve-channel multi-pair for use in hostile environments. Outer jacket is an extra-thick, extra-tough polyurethane compound that is 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	.505"	22 AWG (19x34) Stranded TC	PE, .010" Wall	Varies for Each Pair, See Color Code Chart 2, Page 98	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

Direct burial multi-pair cable for permanent underground installation. As with the standard GA618 series, the direct burial version features low loss, low noise, and color coded pair jackets. Unique to the PEF direct burial versions 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.



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, .010" Wall/ Red & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC, .140"/Base 10 (See Color Code Chart 1, Page 98)	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	.475"	118 lbs/Mft
GA61812PEF	12	.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

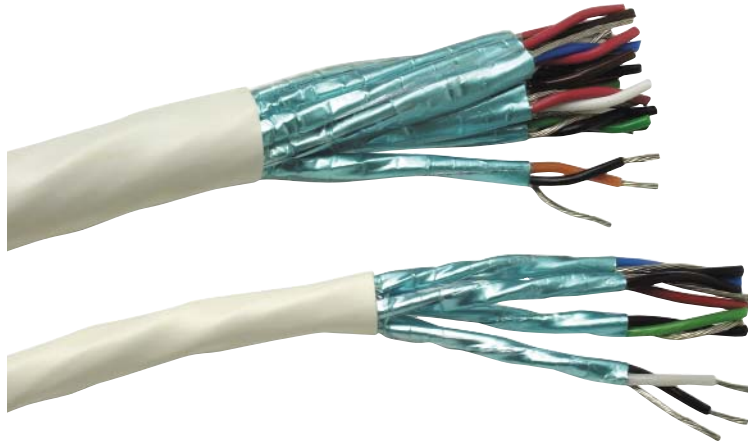
Features & Benefits

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

Multi-pair audio cable for installation in plenum air spaces. Capacitance is similar to the nonplenum GA series by utilizing Halar for the insulating dielectric (which has a lower constant than standard plenum PVC). Pairs are individually shielded and isolated, and the conductors of each pair are color coded for channel identification. Outer plenum PVC jacket is more flexible and easier to strip than other hi-temp plenum compounds.



Mechanical Specifications (Series)

Conductors	Insulation	Insulation Color Code	Pair Shield	Pair Drain	Master Jacket	UL Type
22 AWG (7x30) Stranded TC	Halar, .010" Wall	Varies for Each Pair, See Color Code Chart 2, Page 98	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	.285"	47 lbs/Mft
6608HS	8	.385"	98 lbs/Mft
6612HS	12	.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

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



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	.173"	22 AWG (7x30) Stranded TC	PE, .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	.178"	22 AWG (7x30) Stranded TC	Halar, .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			

Single & Dual-pair: 22 Gage

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

Industry-standard balanced audio cable for permanent installation. Stranded tinned-copper conductors are easy to solder or punch-down. A high-grade polyethylene dielectric is used to minimize high frequency attenuation, while excellent process control and tight pair twisting achieves superior noise rejection. Foil shield with same gage drain wire facilitates quick shield termination. Twenty-two gage conductors offer the lowest DCR available in any Gepco single-pair product. Ideal for punch-down, rack wiring, and extended distance runs of mic level signals.



Mechanical Specifications (Series)

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

Mechanical Specifications (Individual)

Part #	# of Pairs	Nominal OD	Insulation/Color Code	Shield	Jacket	Jacket Colors	UL Type	Approx. Weight
61801	1	.140"	PE, .010" Wall/Red & Black	100% Foil	PVC	Black or Gray	CMR	13 lbs/Mft
<i>Standard Single-pair</i>								
61801EZ	1	.138"	PE, .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	.140" x .290"	PE, .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	.134"	Halar, .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

Single & Dual-pair: 24 Gage

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

Thin profile, balanced audio cable for applications that require a reduced diameter and/or weight. 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. Foil shield with same gage drain wire facilitates quick shield termination. Twenty-four gage conductors are easier to terminate while still maintaining low DCR. Ideal for patchbay wiring or mobile production trucks.



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	.115"	PE, .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	.130" x .265"	PE, .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

General Purpose Audio & Control: Unshielded

Features & Benefits

Economical Construction
Bare Copper Conductors
PVC Insulation

Applications

Line Level Audio
General Purpose Audio
Control

General purpose, economical audio and control cable for permanent installation in conduit, walls, or ceilings. The conductive elements consist of stranded, bare copper conductors that are insulated with a PVC insulation compound. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. Available in 20 and 22 gage types, each version is manufactured in both UL rated plenum or nonplenum constructions.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductor	Insulation/Color Code	Jacket (Type, Colors)	UL Type	Approx. Weight
IR202BA7	1	.132"	20 AWG (7x28) Stranded BC	PVC, .008" Wall/ Black & Red	PVC, Gray	CMR, CMG, CL3R	14 lbs/Mft
<i>20 AWG x 2 Unshielded Audio & Control Cable: Riser</i>							
IP202BA7	1	.132"	20 AWG (7x28) Stranded BC	Plenum PVC, .008" Wall/ Black & Red	Plenum PVC, White	CMP or CL3P	15 lbs/Mft
<i>20 AWG x 2 Unshielded Audio & Control Cable: Plenum</i>							
IR222BA7	1	.116"	22 AWG (7x30) Stranded BC	PVC, .007" Wall/ Black & Red	PVC, Gray	CMR, CMG, CL3P	10 lbs/Mft
<i>22 AWG x 2 Unshielded Audio & Control Cable: Riser</i>							
IP222BA7	1	.114"	22 AWG (7x30) Stranded BC	Plenum PVC, .008" Wall/ Black & Red	Plenum PVC, White	CMP or CL3P	11 lbs/Mft
<i>22 AWG x 2 Unshielded Audio & Control Cable: Plenum</i>							

Electrical Specifications

Part Number	Cond. DCR
IR202BA7 / IP202BA7	10.1 Ω/Mft
IR222BA7 / IP222BA7	14.8 Ω/Mft

General Purpose Audio & Control: Shielded

Features & Benefits

- Economical Construction
- Bare Copper Conductors
- PVC Insulation
- Foil Shield with Drain Wire
- 20 & 22 Gage Versions

Applications

- Line Level Audio
- General Purpose Audio
- Control

General purpose, economical audio and control cable for permanent installation in conduit, walls, or ceilings. The conductive elements consist of stranded, bare copper conductors that are insulated with a PVC insulation compound. For added noise rejection and suppression, the conductors are shielded with a durable 100% foil/mylar and tinned copper drain wire. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. Available in 20 and 22 gage types, each version is manufactured in both UL rated plenum or non-plenum constructions.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductor	Insulation/Color Code	Shield	Drain Wire (Type, DCR)	Jacket (Type, Colors)	UL Type	Approx. Weight
IR202AL	1	.130"	20 AWG (7x28) Stranded BC	PVC, .008" Wall/ Black & Red	100% Foil	24 AWG (7x32) Stranded TC	PVC, Gray	CMR, CMG, CL3R	15 lbs/Mft
IP202AL	1	.130"	20 AWG (7x28) Stranded BC	Plenum PVC, .008" Wall/ Black & Red	100% Foil	24 AWG (7x32) Stranded TC	Plenum PVC, White	CMP or CL3P	16 lbs/Mft
IR222AL	1	.116"	22 AWG (7x30) Stranded BC	PVC, .008" Wall/ Black & Red	100% Foil	24 AWG (7x32) Stranded TC	PVC, Gray	CMR, CMG, CL3R	12 lbs/Mft
IP222AL	1	.116"	22 AWG (7x30) Stranded BC	Plenum PVC, .007" Wall/ Black & Red	100% Foil	24 AWG (7x32) Stranded TC	Plenum PVC, White	CMP or CL3P	13 lbs/Mft

Electrical Specifications

Part #	Capacitance	Cond. DCR	Drain DCR
IR202AL	48 pF/ft between conductors, 86 pF/ft between one conductor and other tied to shield	10.1 Ω/Mft	23.8 Ω/Mft
IP202AL	46 pF/ft between conductors, 82 pF/ft between one conductor and other tied to shield	10.1 Ω/Mft	23.8 Ω/Mft
IR222AL	49 pF/ft between conductors, 88 pF/ft between one conductor and other tied to shield	14.8 Ω/Mft	23.8 Ω/Mft
IP222AL	41 pF/ft between conductors, 74 pF/ft between one conductor and other tied to shield	14.8 Ω/Mft	23.8 Ω/Mft

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 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 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	.145"	24 AWG (40x40) Stranded Oxygen-free BC	Foam Polypropylene, .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	.148"	24 AWG (40x40) Stranded Oxygen-free BC	Foam Polypropylene, .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-gage 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

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 gage 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. 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	.255"	20 AWG (26x34) Stranded TC	PE, .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

Microphone: X-Band

Features & Benefits

Extra-flexible
Wide Bandwidth
22 Gage 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

Gepco's new 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 Gepco's new 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	.240"	22 AWG (41x38) Stranded Oxygen-free BC	Foam Polypropylene, .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	.265"	22 AWG (41x38) Stranded Oxygen-free BC	Foam Polypropylene, .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

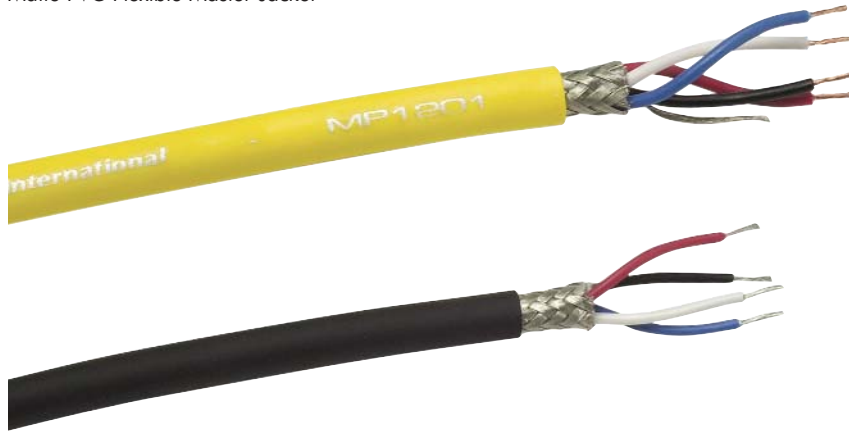
Features & Benefits

- 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

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	Aprox. Weight
MP1201	4	.240"	24 AWG (41x40) Stranded BC	PE, .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
<i>Standard Quad Star</i>									
MM1024	4	.193"	26 AWG (30x40) Stranded TC	PE, .012" Wall/ White & Black, Red & Blue	95% TC Braid	None	Flexible Matte PVC	Black (Other Colors May Also Be Available)	26 lbs/Mft
<i>Thin Profile Quad Star</i>									
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		-----			

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

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. 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	.194"	24 AWG (41x40) Stranded TC	PE, .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-gage Conductor
- Polyethylene Dielectric
- Noise Reducing PVC Tape
- Full Copper Braid Shield
- Matte PVC Flexible Master Jacket

Applications

- Line or Instrument Level Unbalanced Analog Audio

Extra-flexible, low-noise and low-loss guitar or unbalanced instrument cable. The GLC20 features a large 20 gage conductor with a 50Ω 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 tape 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	.265"	20 AWG (41x36) Stranded BC	PE, .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-gage 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-gage (20AWG), 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's 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	.228"	20 AWG (41x36) Stranded OFC	Foam PE, .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-gage Conductors
- Densely Stranded, Oxygen-free Copper
- Convenient Zip Construction
- Transparent Flexible PVC Jacket

Applications

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

High-purity, densely stranded, oxygen-free speaker cable for high resolution control room monitoring applications.

Each conductor is constructed from 423 or 259 strands of 99.999% oxygen-free bare copper. The exceptionally 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, they 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	.225" x .455"	10 AWG (423x36) Stranded Oxygen-free BC	Transparent PVC, .048" Wall	One Leg Legend, One Leg Plain	88 lbs/Mft
GSC122OFC	2	.182" x .370"	12 AWG (259x36) Stranded Oxygen-free BC	Transparent PVC, .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

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 gage types in 2 or 4-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	.350"	14 AWG (3x56/36) Oxygen-free BC	PE, .020"/ Black & Red	TPE, Black	CL3	68 lbs/Mft
			14 AWG x 2 High Bandwidth OFC Speaker Cable				
144HBW	4	.410"	14 AWG (3x56/36) Oxygen-free BC	PE, .020"/ Black, White, Red, Green	TPE, Black	CL3	45 lbs/Mft
			14 AWG x 4 High Bandwidth OFC Speaker Cable				
122HBW	2	.390"	12 AWG (3x87/36) Oxygen-free BC	PE, .020"/ Black & Red	TPE, Black	CL3	93 lbs/Mft
			12 AWG x 2 High Bandwidth OFC Speaker Cable				
124HBW	4	.480"	12 AWG (3x87/36) Oxygen-free BC	PE, .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

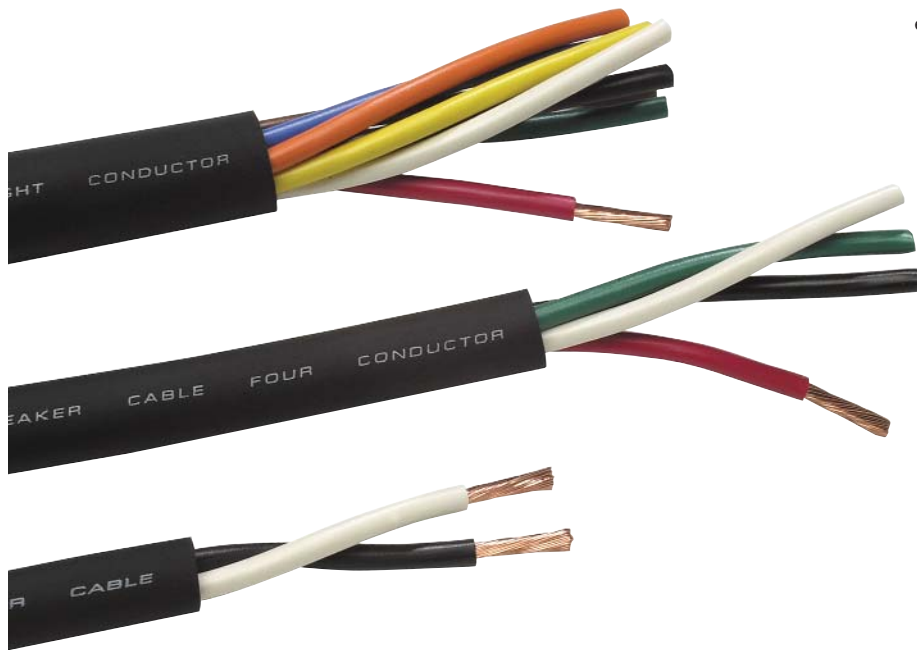
Features & Benefits

- Easy-to-handle Round Construction
- Low Loss
- Extra-flexible
- Heavy-gage Conductors
- All-weather TPE Master Jacket

Applications

- Speaker-to-amplifier Interconnect
- Portable Speaker Cables
- Ideal for Use with Neutrik Speakon® Connectors

Multi-conductor, low-loss speaker cable in a flexible and portable round construction. The densely stranded 13 gage conductors 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. Ideal for termination with Neutrik Speakon® type connectors.



Mechanical Specifications (Series)				
Conductors	Insulation	Jacket (Type, Colors)		
13 AWG (52x30) Stranded BC	PVC, .024"	TPE, Black		
Mechanical Specifications (Individual)				
Part #	# of Cond.	Nominal OD	Conductor Color Code	Approx. Weight
GSC132	2	.350"	White & Black	85 lbs/Mft
GSC134	4	.420"	White, Black, Green & Red	130 lbs/Mft
GSC138	8	.580"	White, Black, Green, Red, Brown, Blue, Orange & Yellow	259 lbs/Mft
Electrical Specifications				
Cond. DCR				
2.2 Ω/Mft				

Speaker: Permanent Installation Unshielded

Features & Benefits

Easy to Install
 Premium PVC Dielectric
 Low-friction, Easy-to-install Jacket
 Tinned Copper Conductors
 Multiple Gage Sizes Available
 UL Listed

Applications

Speaker Level Analog Audio
 Permanent Installation

Premium quality speaker cable for permanent installation in conduit, walls, or ceilings. Gepco 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 the dielectric, premium-grade PVC is used. Compared to other types, Gepco's PVC compound has both exceptional electrical and mechanical characteristics, ensuring improved cable termination and better signal transfer. Available in 12 through 18 gage, each version is manufactured in both UL rated plenum or non-plenum constructions.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductor	Insulation/Color Code	Shield	Drain Wire	Jacket (Type, Colors)	UL Type	Approx. Weight
1200	1	.384"	12 AWG (19x25) Stranded TC	PVC, .031" Wall/ White & Black	-----	-----	PVC, Gray	PLTC	89 lbs/Mft
			<i>12 AWG Speaker Cable</i>						
1200HS	1	.270"	12 AWG (65x30) Stranded TC	Halar, .008" Wall/ Red & Black	-----	-----	Plenum PVC, White	CL3P	87 lbs/Mft
			<i>12 AWG Speaker Cable: Plenum</i>						
1400	1	.336"	14 AWG (19x27) Stranded TC	PVC, .031" Wall/ White & Black	-----	-----	PVC, Gray	PLTC	66 lbs/Mft
			<i>14 AWG Speaker Cable</i>						
1400HS	1	.215"	14 AWG (41x30) Stranded TC	Halar, .008" Wall/ Red & Black	-----	-----	Plenum PVC, White	CL2P	64 lbs/Mft
			<i>14 AWG Speaker Cable: Plenum</i>						
1600	1	.254"	16 AWG (19x29) Stranded TC	PVC, .016" Wall/ White & Black	-----	-----	PVC, Gray	PLTC	43 lbs/Mft
			<i>16 AWG Speaker Cable</i>						
1600HS	1	.180"	16 AWG (19x29) Stranded TC	Halar, .008" Wall/ Red & Black	-----	-----	Plenum PVC, White	CMP	39 lbs/Mft
			<i>16 AWG Speaker Cable: Plenum</i>						
1800	1	.224"	18 AWG (7x26) Stranded TC	PVC, .016" Wall/ White & Black	-----	-----	PVC, Gray	CM	31 lbs/Mft
			<i>18 AWG Speaker Cable</i>						
1800HS	1	.160"	18 AWG (16x30) Stranded TC	Halar, .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
- Premium PVC Dielectric
- Low-friction, Easy-to-install Jacket
- Tinned Copper Conductors
- Multiple Gage Sizes Available
- UL Listed

Applications

- Speaker Level Analog Audio
- Permanent Installation

Premium quality shielded speaker cable for permanent installation in conduit, walls, or ceilings. Gepco permanent installation speaker cable is made from only high-grade compounds and materials. Each conductor is constructed from tinned copper to protect against oxidization and improve cable termination. For the dielectric, premium-grade PVC is used. Compared to low-grade types, Gepco's PVC compound has both exceptional electrical and mechanical characteristics, ensuring improved cable termination and better signal transfer. For added noise rejection and suppression, the conductors are shielded with a durable foil/mylar and tinned copper drain wire. Available in 12 through 18 gage, each version is manufactured in both UL rated plenum or nonplenum constructions.



Mechanical Specifications									
Part #	# of Pairs	Nominal OD	Conductor	Insulation/Color Code	Shield	Drain Wire	Jacket (Type, Colors)	UL Type	Approx. Weight
1600S	1	.287"	16 AWG (19x29) Stranded TC	PE, .032" Wall/ Clear & Black	100% Foil	18 AWG (16x30) Stranded TC	PVC, Gray	CM	52 lbs/Mft
16 AWG Speaker Cable: Shielded									
1800S	1	.214"	18 AWG (16x30) Stranded TC	PE, .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					

General Purpose Speaker: Unshielded

Features & Benefits

Economical Construction
Bare Copper Conductors
PVC Insulation
12 Through 18 Gage Versions

Applications

Speaker Interconnections
General Purpose Audio
Control

General purpose, economical speaker cable for permanent installation in conduit, walls, or ceilings. The conductive elements consist of stranded, bare copper conductors that are insulated with a PVC insulation compound. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. Available in 12 through 18 gage, each version is manufactured in both UL rated plenum or nonplenum constructions.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductor	Insulation/Color Code	Jacket (Type, Colors)	UL Type	Approx. Weight
IR122BA19	1	.256"	12 AWG (19x25) Stranded BC	PVC, .011" Wall/ Black & Red	PVC, Gray	CL3R	58 lbs/Mft
			12 AWG x 2 Unshielded Speaker Cable: Riser				
IP122BA19	1	.258"	12 AWG (19x25) Stranded BC	Plenum PVC, .011" Wall/ Black & Red	Plenum PVC, White	CL3P	62 lbs/Mft
			12 AWG x 2 Unshielded Speaker Cable: Plenum				
IR142BA19	1	.212"	14 AWG (19x27) Stranded BC	PVC, .011" Wall/ Black & Red	PVC, Gray	CL3R	38 lbs/Mft
			14 AWG x 2 Unshielded Speaker Cable: Riser				
IP142BA19	1	.215"	14 AWG (19x27) Stranded BC	Plenum PVC, .010" Wall/ Black & Red	Plenum PVC, White	CL3P	41 lbs/Mft
			14 AWG x 2 Unshielded Speaker Cable: Plenum				
IR162BA19	1	.180"	16 AWG (19x29) Stranded BC	PVC, .010" Wall/ Black & Red	PVC, Gray	CMR, CMG, CL3R	26 lbs/Mft
			16 AWG x 2 Unshielded Speaker Cable: Riser				
IP162BA19	1	.170"	16 AWG (19x29) Stranded BC	Plenum PVC, .009" Wall/ Black & Red	Plenum PVC, White	CMP, CL3P	27 lbs/Mft
			16 AWG x 2 Unshielded Speaker Cable: Plenum				
IR182BA7	1	.152"	18 AWG (7x26) Stranded BC	PVC, .008" Wall/ Black & Red	PVC, Gray	CMR, CMG, CL3R	18 lbs/Mft
			18 AWG x 2 Unshielded Speaker Cable: Riser				
IP182BA7	1	.148"	18 AWG (7x26) Stranded BC	Plenum PVC, .008" Wall/ Black & Red	Plenum PVC, White	CMP, CL3P	20 lbs/Mft
			18 AWG x 2 Unshielded Speaker Cable: Plenum				

Electrical Specifications

Part Number	Cond. DCR
IR122BA19 / IP122BA19	1.59 Ω/Mft
IR142BA19 / IP142BA19	2.53 Ω/Mft
IR162BA19 / IP162BA19	4.0 Ω/Mft
IR182BA19 / IP182BA19	6.4 Ω/Mft

General Purpose Speaker: Shielded

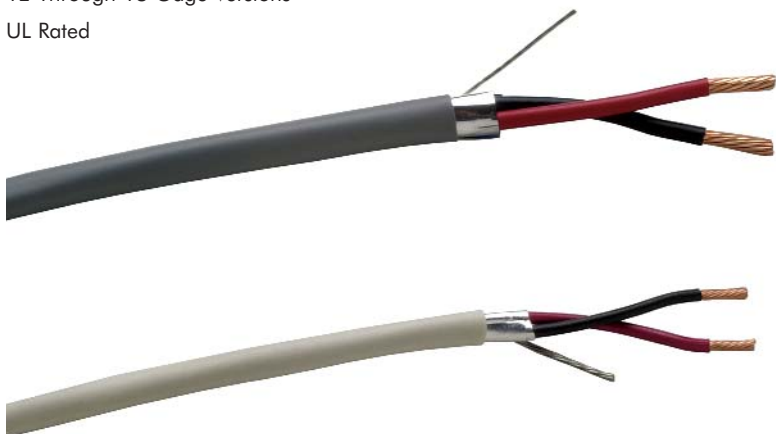
Features & Benefits

- Economical Construction
- Bare Copper Conductors
- PVC Insulation
- Foil Shield with Drain Wire
- 12 Through 18 Gage Versions
- UL Rated

Applications

- Speaker Interconnections
- General Purpose Audio
- Control

General purpose, economical speaker cable for permanent installation in conduit, walls, or ceilings. The conductive elements consist of stranded, bare copper conductors that are insulated with a PVC insulation compound. For added noise rejection and suppression, the conductors are shielded with a durable 100% foil/mylar and tinned copper drain wire. The outer jacket is extruded from a low-friction PVC that is easy to install and pull through conduit. Available in 12 through 18 gage, each version is manufactured in both UL rated plenum or nonplenum constructions.



Mechanical Specifications


Part #	# of Pairs	Nominal OD	Conductor (Type, DCR)	Insulation/Color Code	Shield	Drain Wire	Jacket (Type, Colors)	UL Type	Approx. Weight
IR122AL	1	.274	12 AWG (19x25) Stranded BC	PVC, .012" Wall/ Black & Red	100% Foil	16 AWG (19x29) Stranded TC	PVC, Gray	CL3R	68 lbs/Mft
<i>12 AWG x 2 Shielded Speaker Cable: Riser</i>									
IP122AL	1	.255"	12 AWG (19x25) Stranded BC	Plenum PVC, .011" Wall/ Black & Red	100% Foil	16 AWG (19x29) Stranded TC	Plenum PVC, White	CL3P	69 lbs/Mft
<i>12 AWG x 2 Shielded Speaker Cable: Plenum</i>									
IR142AL	1	.218"	14 AWG (19x27) Stranded BC	PVC, .012" Wall/ Black & Red	100% Foil	18 AWG (7x26) Stranded TC	PVC, Gray	CL3R	43 lbs/Mft
<i>14 AWG x 2 Shielded Speaker Cable: Riser</i>									
IP142AL	1	.215"	14 AWG (19x27) Stranded BC	Plenum PVC, .010" Wall/ Black & Red	100% Foil	18 AWG (7x26) Stranded TC	Plenum PVC, White	CL3P	46 lbs/Mft
<i>14 AWG x 2 Shielded Speaker Cable: Plenum</i>									
IR162AL	1	.177"	16 AWG (19x29) Stranded BC	PVC, .010" Wall/ Black & Red	100% Foil	20 AWG (7x20) Stranded TC	PVC, Gray	CMR, CMG, CL3R	29 lbs/Mft
<i>16 AWG x 2 Shielded Speaker Cable: Riser</i>									
IP162AL	1	.182"	16 AWG (19x29) Stranded BC	Plenum PVC, .009" Wall/ Black & Red	100% Foil	20 AWG (7x20) Stranded TC	Plenum PVC, White	CMP, CL3P	32 lbs/Mft
<i>16 AWG x 2 Shielded Speaker Cable: Plenum</i>									
IR182AL	1	.156"	18 AWG (7x26) Stranded BC	PVC, .008" Wall/ Black & Red	100% Foil	22 AWG (7x30) Stranded TC	PVC, Gray	CMR, CMG, CL3R	21 lbs/Mft
<i>18 AWG x 2 Shielded Speaker Cable: Riser</i>									
IP182AL	1	.156"	18 AWG (7x26) Stranded BC	Plenum PVC, .008" Wall/ Black & Red	100% Foil	22 AWG (7x30) Stranded TC	Plenum PVC, White	CMP, CL3P	23 lbs/Mft
<i>18 AWG x 2 Shielded Speaker Cable: Plenum</i>									

Electrical Specifications

Part #	Capacitance	Cond. DCR
IR122AL	69 pF/ft between conductors, 124 pF/ft between one conductor and other tied to shield	1.59 Ω/Mft
IP122AL	65 pF/ft between conductors, 117 pF/ft between one conductor and other tied to shield	1.59 Ω/Mft
IR142AL	67 pF/ft between conductors, 121 pF/ft between one conductor and other tied to shield	2.5 Ω/Mft
IP142AL	60 pF/ft between conductors, 108 pF/ft between one conductor and other tied to shield	2.5 Ω/Mft
IR162AL	63 pF/ft between conductors, 114 pF/ft between one conductor and other tied to shield	4.0 Ω/Mft
IP162AL	56 pF/ft between conductors, 102 pF/ft between one conductor and other tied to shield	4.0 Ω/Mft
IR182AL	60 pF/ft between conductors, 103 pF/ft between one conductor and other tied to shield	6.4 Ω/Mft
IP182AL	51 pF/ft between conductors, 92 pF/ft between one conductor and other tied to shield	6.4 Ω/Mft

DIGITAL AUDIO CABLES

In This Section:

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Extra-flexible
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- 

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 110Ω 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 110Ω impedance and up to 25MHz 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

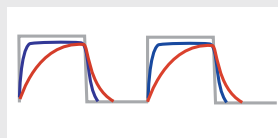
Each cable has time-saving features such as color coded jackets, optimized conductor stranding, drain wires, and easy-to-strip compounds.

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

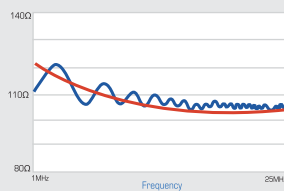


Original Bit Pulse
Pulse Through 110Ω Digital Audio Cable
Pulse Through Analog Audio Cable

Precision 110Ω or 75Ω Impedance

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

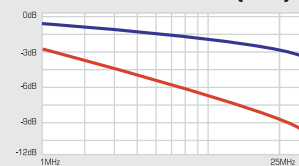
CHARACTERISTIC IMPEDANCE



Extended 25MHz Bandwidth

All 110Ω digital audio cables are certified to 25MHz for transmission of sample rates up to 192kHz. 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 110Ω Digital Audio Cable

110Ω Multi-pair DS Series: 24 Gage

Features & Benefits

Precision 110Ω Impedance
 25MHz Bandwidth for 192kHz 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

Extra-low loss 110Ω AES/EBU wide bandwidth digital audio multi-pair cable. The DS4 series features an extended 25MHz bandwidth, ultra-low attenuation, mechanical stability, and a precision 110Ω 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 25MHz bandwidth is compliant with the 2003 revision of the AES3 standard for transmission of digital audio at sampling rates up to 192kHz. Color coded and alphanumerically printed pairs facilitate easy channel identification and minimize crosstalk, while the new 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, .021" Wall/ White & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC, .180"/Base 10 (See Color Code Chart 1, Page 98)	Gep-Flex TPE, Violet	CMR

Mechanical Specifications (Individual)

Part Number	# of Pairs	Nominal OD	Approx. Weight
DS404	4	.620"	125 lbs/Mft
DS408	8	.815"	260 lbs/Mft
DS412	12	.995"	380 lbs/Mft

Electrical Specifications

Impedance	Capacitance	Cond. DCR	Drain DCR	Attenuation (dB per 100 ft)				
				1MHz	3MHz	6MHz	12MHz	25MHz
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	.090	1.30	1.60	2.15	4.10

110Ω Multi-pair DS Series: 26 Gage

Features & Benefits

- Thin Profile
- Extra-flexible
- Precision 110Ω Impedance
- 25MHz Bandwidth for 192kHz 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 110Ω DS6 series of AES/EBU digital audio multi-pair features low attenuation, an extended 25 MHz Bandwidth, and a precision 110Ω impedance. Color coded and alphanumericly 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 25MHz for 192kHz 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, .015" Wall/ White & Black	100% Foil	24 AWG (7x32) Stranded TC	PVC, .143" / Base 10	Gep-Flex TPE, Black	CM		
Mechanical Specifications (Individual)								
Part Number	# of Pairs	Nominal OD		Approx. Weight				
DS604	4	.435"		65 lbs/Mft				
DS608	8	.560"		140 lbs/Mft				
DS612	12	.685"		200 lbs/Mft				
DS616	16	.785"		270 lbs/Mft				
DS624	24	.975"		395 lbs/Mft				
Electrical Specifications								
Impedance	Capacitance	Cond. DCR	Drain DCR	Attenuation (dB per 100 ft)				
				1MHz	3MHz	6MHz	12MHz	25MHz
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

110Ω Single-pair DS Series: 24 Gage

Features & Benefits

Precision 110Ω Impedance
 25MHz Bandwidth for 192kHz 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

Extra-low loss 110Ω AES/EBU wide bandwidth, digital audio twisted-pair cable. The DS4 series features an extended 25MHz bandwidth, ultra-low attenuation, mechanical stability, and a precision 110Ω 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 25MHz bandwidth is compliant with the AES3 standard for transmission of digital audio at sampling rates up to 192kHz. 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	.180"	24 AWG (7x32) Stranded TC	Foam PE, .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	.370" x .180"	24 AWG (7x32) Stranded TC	Foam PE, .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	.170"	24 AWG (7x32) Stranded TC	Foam FEP, .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)				
					1MHz	3MHz	6MHz	12MHz	25MHz
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	.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	.80	1.20	1.50	2.00	2.90

110Ω Single-pair DS Series: 26 Gage

Features & Benefits

- Thin Profile
- Flexible
- Precision 110Ω Impedance
- 25MHz Bandwidth for 192kHz 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

Thin profile, 110Ω DS6 series of AES/EBU digital audio twisted-pair that features low attenuation, an extended 25MHz bandwidth, and a precision 110Ω 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 25MHz for 192kHz 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	.143"	26 AWG (7x34) Stranded TC	Foam PP, .015" Wall/ White & Black	100% Foil	24 AWG (7x32) Stranded TC	PVC, Black	CM	10 lbs/Mft
<i>Thin Profile 110Ω Single-pair</i>									
DS601D	2	.143 x .290"	26 AWG (7x34) Stranded TC	Foam PP, .015" Wall/ White & Black	100% Foil	24 AWG (7x32) Stranded TC	PVC, Black with Red Stripe	CM	21 lbs/Mft
<i>Thin Profile 110Ω Dual-pair</i>									
Electrical Specifications									
Part #	Impedance	Capacitance	Cond. DCR; Drain DCR	Attenuation (dB per 100 ft)					
				1MHz	3MHz	6MHz	12MHz	25MHz	
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	

110Ω Single-pair DS Series: 24 Gage Extra-flexible

Features & Benefits

Extra-flexible
Precision 110Ω Impedance
25MHz Bandwidth for 192kHz 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

Low-loss, extra-flexible 110Ω AES/EBU digital audio twisted-pair. Featuring a data-grade foam polypropylene dielectric, the DS401M offers low attenuation, an extended 25MHz bandwidth, and a precision 110Ω impedance. The DS401M has an ultra-flexible design through its finely stranded copper conductors and braid shield. In addition, the DS401M features Gepco's G-Flex outer jacket compound that is both exceptionally flaccid and flexible. To stabilize the 110Ω 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 25MHz, the DS601M is rated for sampling rates up to 192kHz.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Dielectric/Color Code	Fillers	Shield	Drain	Jacket (Type, Colors)	Approx. Weight
DS401M	1	.235"	24 AWG (41x40) Stranded TC	Foam PE, .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)				
				1MHz	3MHz	6MHz	123MHz	25MHz
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	.60	.90	1.60	2.30	3.40

110Ω Single-pair DS Series: 26 Gage Extra-flexible

Features & Benefits

- Extra-flexible
- Thin Profile
- Precision 110Ω Impedance
- 25MHz Bandwidth for 192kHz 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

Thin profile, extra-flexible 110Ω AES/EBU digital audio twisted-pair. Featuring a data-grade foam polypropylene dielectric, the DS601M offers low attenuation, an extended 25MHz bandwidth, and a precision 110Ω impedance. The DS601M has an ultra-flexible design through its finely stranded copper conductors and spiral serve shield. In addition, the DS601M features Gepco's G-Flex outer jacket compound that is both exceptionally flaccid and flexible. To stabilize the 110Ω 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 25MHz, the DS601M is rated for sampling rates up to 192kHz.



Mechanical Specifications									
Part #	# of Pairs	Nominal OD	Conductors	Dielectric Color Code	Fillers	Shield	Drain Wire	Jacket (Type, Colors)	Approx. Weight
DS601M	1	.199"	26 AWG (30x40) Stranded Oxygen-free BC	Foam PP, .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 110Ω Single-pair: Extra-flexible</i>									
Electrical Specifications									
Impedance	Capacitance	Cond. DCR	Attenuation (dB per 100 ft)						
			1MHz	3MHz	6MHz	12MHz	25MHz		
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		

75Ω AES3id, Word Clock & SPDIF Coax: Extra-flexible

Features & Benefits

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

Applications

SPDIF
 AES3id
 Word Clock
 Rack Patching

Flexible, low-loss, precision coax for SPDIF or other 75Ω digital audio applications that require flexibility in a non-permanent installation application. Unlike conventional coax cable, VHD2000M & VHD2001M utilize a stranded center conductor, double-braid shield, and ultra-flexible PVC jacket for excellent flexibility and flex-life. VHD2000M & VHD2001M feature the same low-loss, crush resistant, gas-injection foam dielectric used in Gepco's High Definition video coax series. This dielectric process and compound reduces 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	.242"	21 AWG (19x34) Stranded BC (Compact)	Gas-injected Foam PE, .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	.275"	19 AWG (19x32) Stranded BC (Compact)	Gas-injected Foam PE, .182"	95% TC Braid, 95% TC Braid	Flexible PVC	Black	45 lbs/Mft
Extra-flexible RG6 HD Coax								

Electrical Specifications

Part #	Impedance	Return Loss (100kHz-1GHz), (1GHz-4.5GHz)	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

75Ω AES3id, Word Clock & SPDIF Coax

Features & Benefits

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

Applications

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

Low-loss, low-jitter, precision impedance coax for Word Clock, AES3id, SPDIF, or multiplexed digital audio formats. The same as Gepco's HD video series, these coaxial cables utilize Gepco's 4.5GHz gas-injected, low k constant dielectric and a precision-drawn, solid copper conductor. For comprehensive broadband shielding, a dual shield, 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	.405"	14 AWG Solid BC	Gas-injected Foam PE, .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	.320"	16 AWG Solid BC	Gas-injected Foam PE, .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	.272"	18 AWG Solid BC	Gas-injected Foam PE, .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	.242"	20 AWG Solid BC	Gas-injected Foam PE, .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	.164"	23 AWG Solid BC	Gas-injected Foam PE, .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 (100kHz-1GHz), (1GHz-4.5GHz)	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

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PRECISION CABLING TECHNOLOGY THAT DELIVERS YOUR CLEAREST VISION



Gas-injected Dielectric

Gepco's 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 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

Gepco's dielectric and jacket compounds have exceptional crush resistance and aging properties. As a result, Gepco 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.

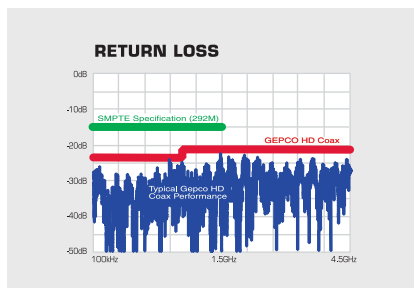
Industry-leading Tolerances

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

Electrical Characteristics & Specifications

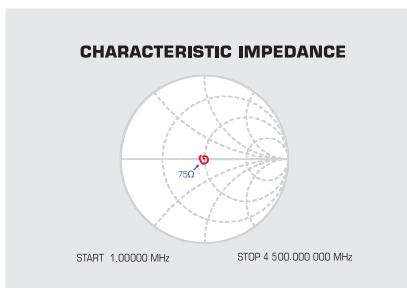
Meets or Exceeds Standards & 100% Sweep Tested

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



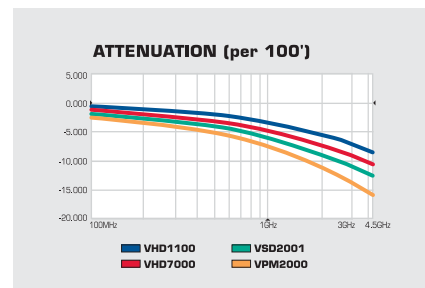
Precision Impedance Tolerances

All Gepco video cables feature a precision 75Ω or 50Ω impedance to ensure maximum signal transfer and impedance matching. All Gepco coaxial cables are produced within an exceptional +/- 2Ω or +/- 3Ω 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 75Ω Impedance
 4.5GHz Bandwidth for HDTV
 High Velocity of Propagation
 Gas-injected Foam Polyethylene or Teflon 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 High Definition video coax series has been engineered and expanded to feature a 4.5GHz bandwidth (for HDTV transmission), a gas-injected foam polyethylene dielectric, lower attenuation, more RG types, excellent crush resistance, easy termination, and a flexible, riser-rated jacket. The gas-injected dielectric and precision process control are the critical factors in achieving superior electrical performance. Gepco's gas-injected dielectric has a faster V.P, tight impedance tolerance, and low attenuation and structural return loss across the entire 4.5GHz Bandwidth. Conductive elements consist of a precision-drawn solid copper center conductor and a 95% braid with 100% foil shield for complete broadband shielding. Available in 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
VHD1100	1	.405"	14 AWG Solid BC	Gas-injected Foam PE, .285"	95% TC Braid, 100% Foil	PVC	Black, Others by Special Order	CMR	76 lbs/Mft
<i>Extended Distance RG11 HD Coax</i>									
VHD1100TK	1	.346"	14 AWG Solid BC	Gas-injected Foam FEP, .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	.320"	16 AWG Solid BC	Gas-injected Foam PE, .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	.272"	18 AWG Solid BC	Gas-injected Foam PE, .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	.237"	18 AWG Solid BC	Gas-injected Foam FEP, .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	.242"	20 AWG Solid BC	Gas-injected Foam PE, .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	.200"	20 AWG Solid BC	Gas-injected Foam FEP, .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 (100kHz-1GHz), (1GHz-4.5GHz)	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	1.5 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
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 75Ω Impedance
- 4.5GHz 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)

High Definition coax for direct burial applications. The direct burial series 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 High Definition cables, the direct burial series has a 4.5GHz 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	.405"	14 AWG Solid BC	Gas-injected Foam PE, .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	.272"	18 AWG Solid BC	Gas-injected Foam PE, .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 (100kHz-1GHz), (1GHz-4.5GHz)	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

Miniature HDTV/SDI Coax

Features & Benefits

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

Applications

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

Miniature coax that features exceptionally low attenuation for its type while maintaining a reduced size and weight.

All utilize a pure copper center conductor, low-loss foam polyethylene 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.



Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight
VDM230	1	.164"	23 AWG Solid BC	Gas-injected Foam PE, .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>									
VDM250	1	.154"	25 AWG (7x33) Stranded BC	Gas-injected Foam PE, .099"	95% TC Braid, 100% Foil	PVC	Black	CMR	16 lbs/Mft
<i>Miniature SDI Coax: 25 AWG Stranded</i>									
VDM250D	2	.154" x .315"	25 AWG (7x33) Stranded BC	Gas-injected Foam PE, .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 (100kHz-1GHz), (1GHz-4.5GHz)	Capacitance	Cond. DCR per Mft/Shield DCR per Mft	Vel. of Prop.	Attenuation (dB per 100 ft)												
						1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
VDM230	75 Ω (+/-2)	>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
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 Coax

Features & Benefits

- Ultra-thin Profile
- Low Weight
- More Durable Than Other Subminiature Types
- 4.5GHz Bandwidth for HDTV
- Double Shield (Foil & Braid)
- Precision 75Ω 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.

The VDM260 features a 26 gage solid conductor that provides lower attenuation and superior mechanical integrity compared to other subminiature designs that utilize smaller, more fragile gage 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 4.5GHz 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, .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 (100kHz-1GHz), (1GHz-4.5GHz)	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
4.5GHz Bandwidth
Low Attenuation & Return Loss
Precision 75Ω 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

Extra-flexible, low-loss coax with a 4.5GHz bandwidth for uncompressed HDTV transmission. VHD2000M and VHD2001M 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 feature a crush-resistant, gas-injected polyethylene compound that reduces attenuation and extends the operating bandwidth. As with all other Gepco 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	.242"	21 AWG (19x34) Stranded BC (Compact)	Gas-injected Foam PE, .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	.275"	19 AWG (19x32) Stranded BC (Compact)	Gas-injected Foam PE, .182"	95% TC Braid, 95% TC Braid	Flexible PVC	Black	45 lbs/Mft
Extra-flexible RG6 HD Coax								

Electrical Specifications

Part #	Impedance	Return Loss (100kHz-1GHz), (1GHz-4.5GHz)	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 75Ω Impedance
- 1GHz 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

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	.242"	21 AWG (19x34) Stranded BC (Compact)	Gas-injected Foam PE, .146" Wall	95% BC Braid	Flexible Matte PVC, Black	60 lbs/Mft

Electrical Specifications

Impedance	Return Loss (100kHz-1GHz)	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

Component RGB: Miniature 25 AWG Stranded

Features & Benefits

Thin Profile
 Low Attenuation & Return Loss
 Precision 75Ω Impedance
 1GHz 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

Miniature RGB coax snake that utilizes precision low-loss VDM250 type miniature coax. Twenty-five gage conductor with high velocity foam dielectric yields a 1GHz 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. New Riser GEP-FLEX master jacket is flexible, durable, and UL rated allowing for use in permanent installation or portable applications. 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, .099"	95% TC Braid, 100% Foil	PVC, .154"	Gep-Flex TPE, Black	CM

Mechanical Specifications (Individual)

Part #	# of Coaxials	Color Code	Nominal OD	Approx. Weight
RGB250	3	Red, Green, Blue	.460"	80 lbs/Mft
RGBS250	4	Red, Green, Blue, Yellow	.470"	110 lbs/Mft
RGBSC250	5	Red, Green, Blue, Yellow, White	.560"	130 lbs/Mft
RGBHVC250	6	Red, Green, Blue, Yellow, White, Black	.575"	160 lbs/Mft

Electrical Specifications

Impedance	Return Loss (100kHz-1GHz)	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 75Ω Impedance
- 3GHz 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

Miniature RGB coax snake that utilizes precision low-loss 25 AWG solid miniature coax. Precision-drawn conductor with high velocity foam dielectric yields a 3GHz 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. 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, .074"	95% TC Braid, 100% Foil	PVC, .115"	PVC, Black	CMR

Mechanical Specifications (Individual)				
Part #	# of Coaxials	Color Code	Nominal OD	Approx. Weight
RGB250S	3	Red, Green, Blue	.325"	68 lbs/Mft
RGBS250S	4	Red, Green, Blue, Yellow	.365"	79 lbs/Mft
RGBSC250S	5	Red, Green, Blue, Yellow, White	.405"	90 lbs/Mft
RGBHVC250S	6	Red, Green, Blue, Yellow, White, Black	.440"	105 lbs/Mft

Electrical Specifications															
Impedance	Return Loss (100kHz-3GHz)	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%	0.50	1.23	1.80	4.30	5.65	7.72	9.00	12.9	15.4	24.0	27.5

Component RGB: Miniature Plenum

Features & Benefits

Thin Profile
 Precision 75Ω 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

Miniature plenum-rated RGB coax snake that 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. Ideal for projection systems and VGA cables.



Mechanical Specifications (Series)

Conductors	Insulation (Type, OD)	Shield	Coax Jacket (Type, OD)	Master Jacket	UL Type
26 AWG (7x34) Stranded TC	Foam FEP, .072"	100% Foil, 95% TC Spiral Serve	Fluoropolymer, .102"	Plenum PVC, White	CL2P

Mechanical Specifications (Individual)

Part #	# of Coaxials	Color Code	Nominal OD	Approx. Weight
RGB260TS	3	Red, Green, Blue	.260"	48 lbs/Mft
RGBS260TS	4	Red, Green, Blue, Yellow	.280"	64 lbs/Mft
RGBSC260TS	5	Red, Green, Blue, Yellow, White	.310"	80 lbs/Mft
RGBHVC260TS	6	Red, Green, Blue, Yellow, White, Black	.325"	96 lbs/Mft

Electrical Specifications

Impedance	Return Loss (1MHz-455MHz), (455MHz-1GHz)	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 with Category 5e+

Features & Benefits

- Six Coaxial Elements
- Category 5e+ 350MHz Element(s)
- 4.5GHz Coaxial Bandwidth (Nonplenum Version)
- Flexible Master Jacket
- 100% Sweep Tested
- UL Rated CM or Plenum

Applications

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

Hybrid component video cable with a Category 5e+ network element(s). The hybrid design of the RGB6C5 series allows for Ethernet, component video, sync, composite video and/or audio to be run within a single cable. The nonplenum version is constructed from low-loss, solid 23 gage, 4.5GHz coaxial elements, while the plenum version is constructed from stranded 26 gage, 1GHz miniature coaxial elements. The Category 5e+ element features enhanced bandwidth and electrical specifications that meet and/or exceed TIA/EIA-568-B.2 standards. 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 Category 5e+ Elements	Overall Jacket (Type, OD)	UL Type	Approx. Weight
RGB6C52	6	2	Flexible TPE, .680"	CM	170 lbs/Mft
Component RGBHVC Six Element Coax with Two Category 5e+					
RGB6C5	6	1	Flexible TPE, .640"	CM	140 lbs/Mft
Component RGBHVC Six Element Coax with One Category 5e+					
RGB6C5TS	6	1	Plenum PVC, .460"	CL2P	67 lbs/Mft
Component RGBHVC Six Element Coax with One Category 5e+: Plenum					

Coaxial Element Specifications

Part #	Conductors (Type, DCR)	Insulation (Type, OD)	Shield	Jacket (Type, OD)	Color Code	Impedance	Vel. of Prop.
RGB6C52/RGB6C5	23 AWG Solid BC, 20.3 Ω/Mft	Gas-injected Foam PE, .100"	100% Foil, 95% TC Braid	PVC, .164"	Red, Green, Blue, Black, Yellow, White	75Ω	82%
RGB6C5TS	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	Foam FEP, .072"	100% Foil, 95% TC Serve	Plenum PVC, .102"	Red, Green, Blue, Black, Yellow, White	75Ω	85%

Category 5e+ Specifications

Part #	Conductors (Type, DCR)	Insulation	Insulation Color Code	Jacket (Type, OD)	Bandwidth	Standards
RGB6C52/RGB6C5	24 AWG Solid BC, 28.6 Ω/Mft	PE	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	PVC, .210"	350 MHz	Meets or Exceeds TIA/EIA-568-B.2 Cat5e, ISO/IEC 11801
RGB6C5TS	24 AWG Solid BC, 28.6 Ω/Mft	Plenum Thermoplastic	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Plenum PVC, .180"	350 MHz	Meets or Exceeds TIA/EIA-568-B.2 Cat5e, ISO/IEC 11801

See CT504/350 (page 84) for detailed Cat5e+ electrical specifications.
 See VDM230 (page 46) for detailed nonplenum coaxial electrical specifications (RGB6C52/RGB6C5).
 See RGBSC260TS (page 52) for detailed plenum coaxial electrical specifications (RGB6C5TS).

Component RGB with 2 Audio Pairs

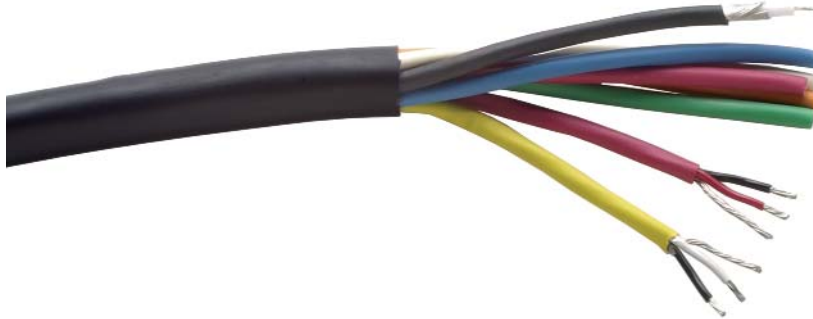
Features & Benefits

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

Applications

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

Hybrid component video cable with two balanced audio pairs. The hybrid design of the RGB62 series allows for two channels of balanced audio to be run with component video, sync, and composite video within a single cable. The nonplenum version is constructed from low-loss solid conductor, 4.5GHz coaxial elements, while the plenum version is constructed from stranded 1GHz miniature coaxial elements. Each audio pair features two twisted 22 gage 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, .430"	CM	85 lbs/Mft
<i>Component RGBHVC with Two Balanced Audio Pairs</i>					
RGB62TS	6	2	Plenum PVC, .370"	CL2P	68 lbs/Mft
<i>Component RGBHVC with Two 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, .074"	100% Foil, 95% TC Braid	PVC, .114"	Red, Green, Blue, Black, Yellow, White	75Ω	80%
RGB62TS	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	Foam FEP, .072"	100% Foil, 95% TC Braid	Plenum PVC, .102"	Red, Green, Blue, Black, Yellow, White	75Ω	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, .040"	Red & Black, White & Black	100% Foil with 24 AWG (7x32) TC Drain Wire	PVC, .130"	One Red, One Black
RGB62TS	22 AWG (7x30) Stranded TC, 15.3 Ω/Mft	Plenum PVC, .044"	Red & Black, White & Black	100% Foil with 26 AWG (7x30) TC Drain Wire	Plenum PVC, .102"	One Red, One Black

See VDM260 (page 47) for detailed nonplenum coaxial electrical specifications (RGB62).

See RGBSC260TS (page 52) 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
- 4.5GHz Coaxial Bandwidth (Nonplenum 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

Hybrid component video cable with two balanced audio pairs. The hybrid design of the 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-conductor, 4.5GHz coaxial elements, while the plenum version is constructed from stranded 1GHz miniature coaxial elements. Each audio pair features two twisted 26 gage conductors with a foil shield, drain wire, and color coded jacket. Power elements are constructed from low-loss 20 gage 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, .565"	CM	125 lbs/Mft
Component RGBHVC with Four Audio Pairs & Four Power Conductors						
RGB644TS	6	4	4	Plenum PVC, .415"	CL2P	105 lbs/Mft
Component RGBHVC with Four Audio Pairs & Four 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, .074"	100% Foil, 95% TC Braid	PVC, .114"	Red, Green, Blue, Black, Yellow, White	75Ω	80%
RGB644TS	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	Foam FEP, .072"	100% Foil, 95% TC Serve	Plenum PVC, .102"	Red, Green, Blue, Black, Yellow, White	75Ω	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, .033", Black & Red	100% Foil with 26 AWG (7x34) TC Drain Wire	PVC, .090"	Brown, Red, Orange, Yellow	20 AWG (7x28) Stranded TC, 10.1 Ω/Mft	PVC, .056"	Red, White, Black, Green
RGB644TS	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	Plenum PVC, .033", Black & Red	100% Foil with 26 AWG (7x34) TC Drain Wire	Plenum PVC, .090"	Brown, Red, Orange, Yellow	20 AWG (7x28) Stranded TC, 10.1 Ω/Mft	Plenum PVC, .053"	Red, White, Black, Green

See VDM260 (page 47) for detailed nonplenum coaxial electrical specifications (RGB644).
 See RGBSC260TS (page 52) for detailed plenum coaxial electrical specifications (RGB644TS).

Video Snake: High Definition Miniature 23 Gage

Features & Benefits

Thin Profile
 Low Attenuation & Return Loss
 Precision 75Ω Impedance
 4.5GHz 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

Miniature multi-conductor High Definition video coax snake cable for multi-channel digital or analog video interconnect. VS230 series 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 VDM230 for low attenuation, 4.5GHz HD bandwidth, and broadband shielding. For the outer jacket, an all-weather TPE is utilized 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, .100"	95% TC Braid, 100% Foil	PVC, .164"	TPE, Black

Mechanical Specifications (Individual)

Part #	# of Coaxials	Color Code	Nominal OD	Approx. Weight
VS5230	5	Red, Green, Blue, Yellow, White	.570"	150 lbs/Mft
VS10230	10	Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black	.785"	315 lbs/Mft
VS12230	12	Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Black, Beige, Pink	.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	.885"	500 lbs/Mft

Electrical Specifications

Impedance	Return Loss (100kHz-1GHz), (1GHz-4.5GHz)	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 75Ω Impedance
- 4.5GHz 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

Multi-conductor version of VPM2000 High Definition video coax. Coaxial construction features low attenuation, a 4.5GHz 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, .146"	95% TC Braid, 100% Foil	PVC, .242"	TPE, Black

Mechanical Specifications (Individual)				
Part #	# of Coaxials	Color Code	Nominal OD	Approx. Weight
VS52000	5	Red, Green, Blue, Yellow, White	.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 (100kHz-1GHz), (1GHz-4.5GHz)	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	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 75Ω Impedance
 4.5GHz 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

Multi-conductor version of VSD2001 High Definition video coax. Coaxial construction features low attenuation, a 4.5GHz 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 Gepco's dual purpose GEP-FLEX TPE or 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, .180"	95% TC Braid, 100% Foil	PVC, .272"

Mechanical Specifications (Individual)

Part #	# of Coaxials	Color Code	Nominal OD	Master Jacket	UL Type	Approx. Weight
VS32001	3	Red, Green, Blue	.735"	Riser Gep-Flex TPE, Black	CMR	182 lbs/Mft
VS42001	4	Red, Green, Blue, Yellow	.790"	Riser Gep-Flex TPE, Black	CMR	230 lbs/Mft
VS52001	5	Red, Green, Blue, Yellow, White	.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 (100kHz-1GHz), (1GHz-4.5GHz)	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 75Ω Impedance
- 4.5GHz 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

Multi-conductor version of VHD7000 High Definition video coax. Coaxial construction features low attenuation, a 4.5GHz 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	.980"	16 AWG Solid BC	Gas-injected Foam PE, .223"	95% TC Braid, 100% Foil	PVC, .320"	Red, Green, Yellow, Orange, Brown	TPE, Black	400 lbs/Mft

Electrical Specifications																	
Impedance	Return Loss (100kHz-1GHz), (1GHz-4.5GHz)	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

Broadband & Distribution Coax

Features & Benefits

Low Attenuation & Return Loss
 Copper-clad Steel Conductor
 Precision 75Ω Impedance
 2.4GHz Bandwidth
 High Velocity of Propagation
 Gas-injected Foam Polyethylene or Teflon Dielectric
 Aluminum Braid & Foil Shield
 100% Sweep Tested

Applications

Broadband Data
 Distributed Satellite
 CATV
 MATV

Gepeco Broadband coaxial cables feature exceptional performance in multiple RG and UL types for Broadband cable and MATV applications. The Broadband series has a gas-injected foam polyethylene dielectric that significantly lowers attenuation and return loss, yet is crush resistant and durable. For the center conductor element, a copper-clad steel conductor is used. This conductor type has excellent strength and is ideal for terminating with standard F-type connectors that utilize the center conductor as the connector pin. To provide comprehensive EMI and RF shielding, Broadband coax features either dual (foil & braid) or quad shielding in a variety of coverage amounts.



Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight
VB2095	1	.242"	20 AWG Copper Clad Steel	Gas-injected Foam PE, .146"	95% AL Braid, 100% Foil	PVC	Black	CM	24 lbs/Mft
<i>RG59 Broadband Coax</i>									
VB1860	1	.272"	18 AWG Copper Clad Steel	Gas-injected Foam PE, .180"	60% AL Braid, 100% Foil	PVC	Black	CM	26 lbs/Mft
<i>RG6 Broadband Coax: 60% Braid</i>									
VB1890TS	1	.237"	18 AWG Copper Clad Steel	Gas-injected Foam FEP, .170"	90% AL Braid, 100% Foil	Plenum PVC	White	CMP	24 lbs/Mft
<i>RG6 Broadband Coax: Plenum</i>									
VB1890	1	.272"	18 AWG Copper Clad Steel	Gas-injected Foam PE, .180"	90% AL Braid, 100% Foil	PVC	Black	CM	29 lbs/Mft
<i>RG6 Broadband Coax: 90% Braid</i>									
VB18Q	1	.298"	18 AWG Copper Clad Steel	Gas-injected Foam PE, .180"	40% AL Braid,100% Foil 60% AL Braid,100% Foil	PVC	Black	CM	30 lbs/Mft
<i>RG6 Broadband Coax: Quad Shield</i>									
VB18QTS	1	.257"	18 AWG Copper Clad Steel	Gas-injected Foam FEP, .170"	40% AL Braid,100% Foil 60% AL Braid,100% Foil	Plenum PVC	White	CMP	30 lbs/Mft
<i>RG6 Broadband Coax: Plenum Quad Shield</i>									
VB1460	1	.405"	14 AWG Copper Clad Steel	Gas-injected Foam PE, .285"	60% AL Braid, 100% Foil	PVC	Black	CM	63 lbs/Mft
<i>RG11 Broadband Coax</i>									
VB1490TK	1	.350"	14 AWG Copper Clad Steel	Gas-injected Foam FEP, .285"	90% AL Braid, 100% Foil	Kynar	White	CL2P 125°C	69 lbs/Mft
<i>RG11 Broadband Coax: Plenum</i>									

Electrical Specifications

Part #	Impedance	Max Return Loss (1-455MHz), (455MHz-2.4GHz)	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	1.2 GHz	1.45 GHz	2.4 GHz
VB20 Series	75 Ω (+/-3)	>17dB, >15dB	16.2 pF/ft	46.0 Ω	7.3 Ω	83%	0.26	0.81	1.75	2.42	3.33	4.76	6.42	7.28	7.69	8.51	9.45	12.4
VB18 Series	75 Ω (+/-3)	>20dB, >17dB	16.2 pF/ft	31.9 Ω	60% shield: 9.0 Ω 90% shield: 7.0 Ω Quad shield: 5.3 Ω	83%	0.24	0.65	1.39	1.92	2.65	3.78	3.98	5.83	6.15	6.81	7.56	9.90
VB18 Plenum Series	75 Ω (+/-3)	>21dB, >15dB	16.0 pF/ft	31.9 Ω	90% shield: 7.2 Ω Quad shield: 5.5 Ω	84%	0.30	0.70	1.50	2.10	3.10	4.50	6.00	6.90	7.30	8.08	8.97	12.0
VB14 Series	75 Ω (+/-3)	>20dB, >17dB	16.2 pF/ft	14.3 Ω	60% shield: 6.9 Ω	84%	0.22	0.50	0.99	1.28	1.76	2.66	3.67	4.20	4.51	4.90	5.38	6.90
VB14 Plenum Series	75 Ω (+/-3)	>21dB, >15dB	16.2 pF/ft	14.3 Ω	4.8 Ω	84%	0.19	0.39	1.10	1.70	2.50	3.50	4.60	5.30	5.60	6.08	6.70	8.80

Precision Video Coax

Features & Benefits

- Extra-low Attenuation & Return Loss
- Precision 75Ω Impedance
- 1GHz 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)

Original coax standard for broadcast or production quality analog video applications. The precision coax series features a 20 gage solid (or 22 gage stranded) center conductor and solid polyethylene dielectric for low attenuation, tight tolerance 75Ω impedance, and 1GHz 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 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	.304"	20 AWG Solid BC	PE, .198"	Double Braid: 98% & 96% TC	PE, Black	-----	75 lbs/Mft						
20 AWG Precision Coax														
VP618M	1	.304"	21 AWG (19x34) Stranded BC (Compact)	PE, .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 (100kHz-1GHz)	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

Head End Coax

Features & Benefits

Low Attenuation & Return Loss
 Silver-plated, Copper-clad Steel Conductor
 Precision 75Ω Impedance
 550MHz Bandwidth
 High Velocity of Propagation
 Gas-injected Foam Polyethylene Dielectric
 Quad Shielded
 100% Sweep Tested

Applications

Drop Cable
 CATV

Low-loss, quad-shielded, 75Ω coax for head end, drop cable applications. As with most other Gepco coax products, head end cable utilizes a gas-injected dielectric that reduces high frequency attenuation and increases the velocity of propagation. Unique to head end cable is a silver-plated, copper-clad steel conductor which reduces the resistance at the surface area of the conductor, further lowering the high frequency attenuation of the cable. To provide exceptional protection from stray RF and EMI, a dense quad shield with dual 95% aluminum braids is utilized.



Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket (Type, Colors)	UL Type	Approx. Weight
VHEC59 *	1	.270"	20 AWG Solid SPCCS	Gas-injected Foam PE, .146"	AL Foil, 95% AL Braid, AL Foil, 95% AL Braid	PVC, Black	CMR	32 lbs/Mft

RG59 Head End Cable

Electrical Specifications

Part #	Impedance	Return Loss (100kHz-1GHz)	Capacitance	Cond. DCR per Mft	Shield DCR per Mft	Vel. of Prop.	Attenuation (dB per 100 ft)											
							5 MHz	55 MHz	83 MHz	187 MHz	211 MHz	250 MHz	300 MHz	350 MHz	400 MHz	450 MHz	500 MHz	550 MHz
VHEC59	75 Ω (+/-3)	>22dB	16.2 pF/ft	24.0 Ω	6.0 Ω	83%	0.77	1.98	2.35	3.35	3.54	3.83	4.21	4.51	4.84	5.11	5.68	5.94

* May require a minimum order. Please consult factory for details.

CCTV Coax

Features & Benefits

- Low Attenuation & Return Loss
- Precision 75Ω Impedance
- 1GHz Bandwidth
- High Velocity of Propagation (Except VJ59U)
- Gas-injected Foam Polyethylene, Foam Teflon, or Solid Polyethylene Dielectric
- Single Copper Braid Shield
- 100% Sweep Tested

Applications

- CCTV
- Security Cameras
- General Distribution

General purpose coax cable for closed circuit or analog video distribution. Most cables in this series utilize a low-loss, gas-injected dielectric that is electrically superior to conventional solid types, yet remains highly crush resistant. For the conductive elements, all conventional analog coax cables feature a single 95% copper braid and a solid copper or copper clad steel conductor. Conventional analog coax is manufactured in a variety of RG sizes with several types also available with additional conductors for low-voltage powering of cameras.



Mechanical Specifications															
Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Power Pair Construction	Jacket (Type, Colors)	UL Type	Approx. Weight						
VJ59U	1	.242"	23 AWG Solid CCS	Solid PE, .146"	95% BC Braid	N/A	PVC, Black	CM	36 lbs/Mft						
<i>RG59 Standard Coax</i>															
VC2095	1	.242"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% BC Braid	N/A	PVC, Black or White	CMR	34 lbs/Mft						
<i>RG59 CCTV Coax</i>															
VC2095TS	1	.200"	20 AWG Solid BC	Gas-injected Foam FEP, .135"	95% BC Braid	N/A	Plenum PVC, White	CMP	30 lbs/Mft						
<i>RG59 CCTV Coax: Plenum</i>															
VC2095/2PZ	1 Coax 2 Power	.242" x .482"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% BC Braid	(2) 18 AWG (7x26) Stranded BC, .008" PVC Insulation	PVC, Black or White	CM	64 lbs/Mft						
<i>RG59 CCTV Coax & Power Pair: Dual-zip</i>															
VC2095/2PJ	1 Coax 2 Power	.285" x .355"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% BC Braid	(2) 18 AWG (7x26) Stranded BC, .008" PVC Insulation	Black PVC Coax Jacket, White or Black Overall Jacket	CM	66 lbs/Mft						
<i>RG59 CCTV Coax & Power Pair: Overall Jacket</i>															
VC1895	1	.272"	18 AWG Solid BC	Gas-injected Foam PE, .180"	95% BC Braid	N/A	PVC, Black or White	CMR	44 lbs/Mft						
<i>RG6 CCTV Coax</i>															
VC1895TS	1	.237"	18 AWG Solid BC	Gas-injected Foam FEP, .170"	95% BC Braid	N/A	Plenum PVC, White	CMP	38 lbs/Mft						
<i>RG6 CCTV Coax: Plenum</i>															
Electrical Specifications															
Part #	Impedance	Return Loss (100kHz-455MHz), (455MHz-1GHz)	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
VJ59U	75 Ω (+/-3)	>17dB, >15dB	21.0 pF/ft	52.0 Ω	2.7 Ω	66%	0.32	1.02	2.44	3.55	5.18	7.68	10.76	12.64	13.56
VC2095 Series	75 Ω (+/-3)	>17dB, >15dB	16.2 pF/ft	10.2 Ω	2.7 Ω	83%	0.23	0.78	1.79	2.56	3.70	5.34	7.10	8.01	8.51
VC2095TS	75 Ω (+/-3)	>17dB, >15dB	16.0 pF/ft	10.2 Ω	2.9 Ω	84%	0.24	0.85	2.04	2.92	4.20	6.27	8.92	10.60	11.49
VC1895	75 Ω (+/-3)	>17dB, >15dB	16.2 pF/ft	6.4 Ω	2.7 Ω	83%	0.19	0.64	1.48	2.15	3.09	4.51	6.12	7.00	7.40
VC1895TS	75 Ω (+/-3)	>17dB, >15dB	16.0 pF/ft	6.4 Ω	2.2 Ω	84%	0.21	0.65	1.40	2.04	2.94	4.46	5.89	7.47	8.02

50Ω Coax

Features & Benefits

Precision 50Ω Impedance
 1GHz or 1.8GHz Bandwidth
 High Velocity of Propagation
 Gas-injected Foam Polyethylene Dielectric
 Single or Double Shield
 100% Sweep Tested

Applications

Networking
 Wireless Systems
 VSAT

Coax cable that is designed to a 50Ω characteristic impedance for impedance matching in systems such as thinnet, VSAT, or wireless systems. The insulating dielectric is still constructed from low-loss, gas-injected polyethylene, but in a proportionately smaller amount to achieve the proper impedance. Two RG sizes are available for general purpose use or extended distance runs.



Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket (Type, Colors)	UL Type	Approx. Weight
V5020	1	.195"	20 AWG (19x32) Stranded TC	Gas-injected Foam PE, .114"	95% TC Braid	PVC, Black	CM	26 lbs/Mft
RG58: IEEE 802.3 Thinnet								
V5010	1	.405"	10 AWG Solid BC	Gas-injected Foam PE, .288"	100% Foil 90% TC Braid	PVC, Black	CM	116 lbs/Mft
RG8 Low-loss VSAT Type III								

Electrical Specifications

Part #	Impedance	Return Loss	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	1.45 GHz	1.8 GHz
V5020	50 Ω (+/-3)	> 15dB (100kHz-1GHz)	28.5 pF/ft	4.1 Ω	13.5 Ω	73%	0.45	1.42	3.20	4.50	6.40	9.00	12.00	13.80	14.5	---	---
V5010	50 Ω (+/-3)	> 15dB (100kHz-1.8GHz)	23.5 pF/ft	.92 Ω	1.4 Ω	84%	0.11	0.35	0.83	1.20	1.77	2.63	3.50	3.98	4.25	5.10	6.05

Composite A/V: Dual Zip

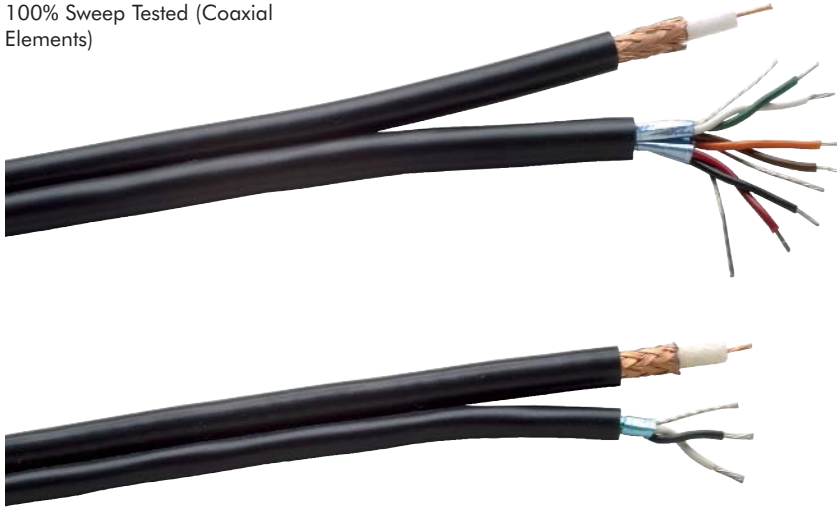
Features & Benefits

- RG59 Coax with Stranded Conductors
- Gas-injected Dielectric
- 22 Gage Audio Pairs
- Pairs are Individually Shielded
- Easy to Terminate Dual-zip Construction
- 100% Sweep Tested (Coaxial Elements)

Applications

- Analog Video
- Microphone or Line Level Balanced Analog Audio

Audio and video composite cable in a dual-zip construction. The video element is a low-loss RG59 coax type that features a stranded center conductor and gas-injected dielectric for flexibility and low attenuation. Audio pairs are 22 gage tinned copper conductors insulated with a PVC dielectric and individually foil shielded with a drain wire. The outer jacket is extruded from a flexible PVC compound in a dual-zip construction that is easy to strip and terminate.



Overall Specifications										
Part #	# of Coaxials	# of Audio Pairs	Audio Pair Color Code	Nominal OD	Overall Jacket	UL Type	Attenuation (dB per 100 ft)			Approx. Weight
VRC618	1	1	Black & White	.242" x .484"	PVC	CMR				54 lbs/Mft
VRC13	1	3	Black & Red Green & White Brown & Orange	.242" x .560"	PVC	CL2X or AWM 20006				82 lbs/Mft

Coax Specifications																
Conductor	Insulation (Type, OD)	Shield	Impedance	Return Loss (100kHz-1GHz)	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
21 AWG (19x34) Stranded BC	Gas-injected Foam PE, .146"	95% BC Braid	75 Ω (+/-3)	>20dB	17.3 pF/ft	14.3 Ω/2.7 Ω	78%	0.39	1.01	2.27	3.23	4.63	6.74	9.34	10.8	11.5

Single-pair Specifications							
Conductor	Insulation (Type, OD)	Shield	Drain	Capacitance	Cond. DCR	Drain DCR	
22 AWG (7x30) Stranded TC	PVC, .013"	100% Foil	22 AWG (7x30) Stranded TC	48 pF/ft between conductors, 89 pF/ft between one conductor and another tied to shield	15.3 Ω/Mft	15.3 Ω/Mft	

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

Multi-element coax and twisted-pair snake cable that utilizes miniature type coax for reduced size and weight. Coaxial construction 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 gage 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, .099"	95% TC Braid, 100% Foil	PVC, .154"

Single-pair Mechanical Specifications

Conductor	Insulation (Type, OD)	Color Code	Shield	Drain	Jacket (Type, OD)
22 AWG (7x30) Stranded TC	PE, .008"	Red & Black	100% Foil (Bonded)	22 AWG (7x30) Stranded TC	PVC, .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)	.430"	95 lbs/Mft
VA2/3TP	2	Black & White	3	Brown, Red & Orange (Base 10)	.485"	115 lbs/Mft

Coax Electrical Specifications

Impedance	Return Loss (100kHz-1GHz)	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 another 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

Multi-element coax and twisted-pair snake cable that utilizes low-loss, High Definition RG59 type coax. Coaxial construction is identical to single VPM2000 for low attenuation & return loss, 4.5GHz HDTV bandwidth, and excellent broadband shielding. The 61801EZ type analog audio single-pair features low-loss 22 gage conductors and is easy to strip and terminate. All-weather TPE master jacket is abrasion resistant, durable, and remains flexible even in cold temperature environments.



Coax Mechanical Specifications			
Conductor	Insulation (Type, OD)	Shield	Coax Jacket (Type, OD)
20 AWG Solid BC	Foam PE, .146"	95% TC Braid, 100% Foil	PVC, .242"

Single-pair Mechanical Specifications					
Conductor	Insulation (Type, OD)	Color Code	Shield	Drain	Jacket (Type, OD)
22 AWG (7x30) Stranded TC	PE, .008"	Red & Black	100% Foil (Bonded)	22 AWG (7x30) Stranded TC	PVC, .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)	.615"	168 lbs/Mft
VA2/4	2	Black & White	4	Brown, Red, Orange & Yellow (Base 10)	.630"	173 lbs/Mft
VA2/5	2	Black & White	5	Brown, Red, Orange, Yellow & Green (Base 10)	.640"	186 lbs/Mft

Coax Electrical Specifications																	
Impedance	Return Loss (100kHz-1GHz), (1GHz-4.5GHz)	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 another tied to shield	15.3 Ω/Mft	15.3 Ω/Mft

CAMERA & FIBER OPTIC CABLES

In This Section:

- 70 Flexible Studio/Remote Triax
- 71 Permanent Install Triax
- 72 9.2mm Hybrid Fiber Optic: Permanent Installation
- 73 9.2mm Hybrid Fiber Optic: Extra Flexible
- 74 12mm Heavy-duty Hybrid Fiber Optic
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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 Gepco SMPTE hybrid fiber cables are coated with a unique CPE coating that has three times the tensile strength compared to other types which significantly improves the operating life of the fiber and cable.

Crush Resistant

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

Heat Resistant

To eliminate power conductor insulation failure in extreme heat, Gepco 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

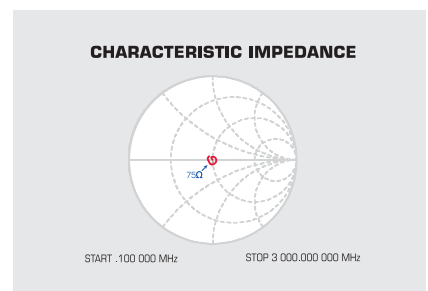
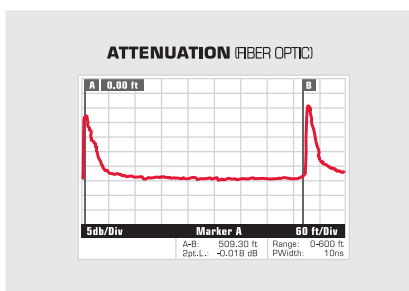
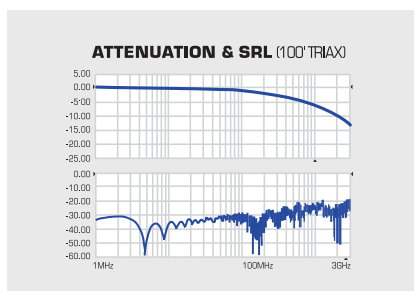
All Gepco triax and hybrid fiber cables meet or exceed SMPTE standards for camera interconnections. In addition, all triax is 100% sweep tested for return loss, attenuation, bandwidth, and impedance.

Low Attenuation

Gepco 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 75Ω impedance to ensure impedance matching, optimal signal transfer, and low structural return loss.



Flexible Studio/Remote Triax

Features & Benefits

Ultra-low Attenuation
 Precision 75Ω Impedance
 3GHz 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

Extra-flexible triaxial camera cable for use in studio, remote, or other portable applications. Like the HD coax series, Gepco 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 75Ω impedance, low structural return loss, and superior crush resistance. A tight-angled, heavy-gage 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	.515"	14 AWG (19x27) Stranded BC	Gas-injected Foam PE, .312"	95% BC Braid	TPR, .392"	95% BC Braid	TPE	Black, Red, Yellow, Green, Blue	136 lbs/Mft
<i>Extended Distance RG11 Flexible Triax</i>										
LVT61859	1	.360"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% BC Braid	TPR, .216"	95% BC Braid	TPE	Black, Red, Yellow, Green, Blue, Violet	80 lbs/Mft
<i>Thin Profile RG59 Flexible Triax</i>										
LVT61859S	1	.360"	21 AWG (19x34) Stranded BC (Compact)	Gas-injected Foam PE, .146"	95% BC Braid	TPR, .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 (100kHz-1GHz), (1GHz-3GHz)	Capacitance	Cond. 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 Install Triax

Features & Benefits

- Ultra-low Attenuation
- Precision 75Ω Impedance
- 3GHz 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

Triaxial camera cable for permanent installation in conduit, plenum air spaces, or outdoor environments. Gepco triax features a precision-drawn, copper conductor and a low-loss, gas-injected polyethylene dielectric. These processed materials achieve low attenuation, a precision 75Ω impedance, low structural return loss, and superior crush resistance. Two heavy-gage, 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	.726"	12 AWG (7x22) Stranded BC	Gas-injected Foam PE, .375"	90% TC Braid	TPR, .463"	90% BC Braid	Double Jacket PVC, Red (Inner); PE, Black (Outer)	-----	270 lbs/Mft
<i>Double-jacketed, 12 AWG Triax</i>										
VT61811	1	.475"	14 AWG Solid BC	Gas-injected Foam PE, .285"	93% BC Braid	PVC, .365"	93% BC Braid	PVC, Black	CMR	120 lbs/Mft
<i>Extended Distance RG11 Triax</i>										
VT61811PEF	1	.475"	14 AWG Solid BC	Gas-injected Foam PE, .285"	93% BC Braid	TPR, .365"	93% BC Braid	PE with Water Blocking Tape, Black	-----	125 lbs/Mft
<i>Extended Distance RG11 Triax: Direct Burial</i>										
VT61811TK	1	.413"	14 AWG Solid BC	Gas-injected Foam FEP, .285"	93% BC Braid	PVDF, .350"	90% BC Braid	PVDF, White	CMP	122 lbs/Mft
<i>Extended Distance RG11 Triax: Plenum</i>										
VT61859	1	.360"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% BC Braid	PVC, .216"	95% BC Braid	PVC, Black	CMR	80 lbs/Mft
<i>Thin Profile RG59 Triax</i>										

Electrical Specifications

Part #	Impedance	Return Loss (100kHz-1GHz), (1GHz-3GHz)	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/.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

9.2mm Hybrid Fiber Optic: Permanent Installation

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
- Riser-rated PVC Jacket

Applications

- High Definition Camera to CCU Interconnect
- Permanent Installation
- Studio or Remote Environments

Fiber optic and copper conductor SMPTE 311M hybrid cable 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 gage 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.



Mechanical Specifications (General)

Part #	Nominal OD	Master Jacket (Type, Colors)	Overall Shield	UL Type	Approx. Weight
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, .9mm	One Blue & One Yellow
Signal	2	24 AWG (7x32) Stranded TC	PE, .045"	One Red & One Gray
Auxiliary	4	20 AWG (19x32) Stranded TC	PE, .060"	Two White & Two Black
Strength Member	1	16 AWG Stranded Steel	PVC, .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
<0.70 dB/km @ 1310/1550nm	23.8 Ω /Mft	9.7 Ω /Mft	5.4 Ω /Mft	>10M Ω /km	3000 Volts RMS @ 20°C, 60Hz for 1 min.	-40°C to +75°C (@ 0 to 95% humidity)	311M Compliant (Meets or Exceeds)

9.2mm Hybrid Fiber Optic: Extra Flexible

Features & Benefits

- Ultra-low Attenuation
- SMPT 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 Jacket

Applications

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

Fiber optic and copper conductor SMPTE 311M hybrid cable 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 gage 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 an extra-flexible, abrasion-resistant TPE comound that is ideal for portable, studio, and outdoor broadcast 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	AWM	90 lbs/Mft

Extra-flexible 9.2mm Hybrid Camera Cable

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, .9mm	One Blue & One Yellow
Signal	2	24 AWG (7x32) Stranded TC	PE, .045"	One Red & One Gray
Auxiliary	4	20 AWG (19x32) Stranded TC	PE, .060"	Two White & Two Black
Strength Member	1	16 AWG Stranded Steel	PVC, .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
<0.70 dB/km @ 1310/1550nm	23.8 Ω /Mft	9.7 Ω /Mft	5.4 Ω /Mft	>10M Ω /km	3000 Volts RMS @ 20°C, 60Hz for 1 min.	-40°C to +75°C (@ 0 to 95% humidity)	311M Compliant (Meets or Exceeds)

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-gage Copper Conductors
 Heat Resistant
 Strength Member for Additional Durability

Applications

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

Extra-durable 12mm Hybrid Fiber cable for 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 μ m Mode Field, 125 μ m Cladding)	CPE Fiber Coating, Kevlar Wrap, Tight Tube PVC Jacket, .062" Finished O.D.	One Blue, One Yellow
Signal	2	24 AWG (19x36) Stranded TC	PE, .044"	One Red, One Gray
Auxiliary	2	16 AWG (65x34) Stranded TC	PE, .084"	One White, One Black
Strength Member	1	16 AWG Stranded Steel	PVC, .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
<0.70 dB/km @ 1310/1550nm	23.8 Ω /Mft	4.5 Ω /Mft	2.6 Ω /Mft	>10M Ω /km	3000 Volts RMS @ 20°C, 60Hz for 1 min.	-40°C to +75°C (@ 0 to 95% humidity)	311M Compliant (Meets or Exceeds)

16mm 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
- Double (TPE & PVC) Jackets

Applications

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

Fiber optic and copper conductor SMPTE 311M hybrid cable 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 gage 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	90 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 μ m Mode Field, 125 μ m Cladding	CPE Tight Buffer, .9mm	One Blue & One Yellow
Signal	2	24 AWG (7x32) Stranded TC	PE, .045"	One Red & One Gray
Auxiliary	4	20 AWG (19x32) Stranded TC	PE, .060"	Two White & Two Black
Strength Member	1	16 AWG Stranded Steel	PVC, .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
<0.70 dB/km @ 1310/1550nm	23.8 Ω /Mft	9.7 Ω /Mft	5.4 Ω /Mft	>10M Ω /km	3000 Volts RMS @ 20°C, 60Hz for 1 min.	-40°C to +75°C (@ 0 to 95% humidity)	311M Compliant (Meets or Exceeds)

Three-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
 Terminates only to SMPTE Bulkhead or HDR(A) Distribution Racks

The HDC3R three-position 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 non-conductive 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	.600"	PVC, Orange with Yellow Stripe	CMR	170 lbs/Mft

Three-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, .040"	One Red, One Gray (Solid or with Yellow or Orange Stripe)
Auxiliary	6 (3 Groups of 2)	18 AWG (19x30) Stranded TC	PVC, .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
<0.70 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)

HD Camera Electrical

Features & Benefits

- Specialized Electrical-only Design
- Four Large-gage Copper Conductors
- Heat Resistant
- Copper Braid Shield
- Riser or Plenum 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 HDR Hybrid Fiber Distribution Rack Systems

Unique electrical cables constructed from only the copper elements utilized in the hybrid fiber camera cables. When used with single-mode fiber optic cables and the Gepco HDR hybrid fiber distribution rack, the HDP series provides an alternative to permanently installing rack-to-rack infrastructure wiring. Gepco's breakout system consists of an HDR distribution rack that allows for a hybrid fiber connector's elements to be distributed over separate copper and optical cables. This system greatly simplifies on-site HD camera permanent installation cabling and termination. The HD series is UL-rated and available in plenum and riser versions.



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	.315"	16 AWG (65x34) Stranded TC	PE, .020"	22 AWG (19x34) Stranded TC	PE, .015"	90% TC Braid	PVC, Black	CMR	76 lbs/Mft
<i>Single-channel HD Electrical Cable</i>										
HDP221P	2 Auxiliary 2 Signal	.205"	16 AWG (65x34) Stranded TC	FEP, .010"	22 AWG (19x34) Stranded TC	FEP, .010"	90% TC Braid	Plenum PVC, White	CMP	58 lbs/Mft
<i>Single-channel HD Electrical Cable: Plenum</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				

Tactical: Single-mode

Features & Benefits

Exceptionally Rugged
Crush Resistant
Low-loss Single-mode Fiber
Distribution & Breakout Type Constructions
Armid Filler
Polyurethane Outer Jacket
Meets or Exceeds TIA/EIA Mil

Applications

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

Exceptionally rugged, light-weight, single-mode fiber optic cables for portable applications in harsh environments. 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 armid strength member filler for exceptional strength, while the breakout series features armid 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 (.9mm OD) with Overall Kevlar Filler	PU, Black	440 N/cm	200 Impacts	2000 Cycles	-55°C to +85°C	-70°C to +85°C	2	.200"	1,800 lbs	600 lbs	3.2"	1.6"	15 lbs/Mft
								4	.220"	1,800 lbs	600 lbs	3.6"	1.8"	19 lbs/Mft
								6	.240"	1,800 lbs	600 lbs	3.8"	1.9"	19 lbs/Mft
								8	.260"	1,800 lbs	600 lbs	4.2"	2.1"	26 lbs/Mft
								10	.260"	2,100 lbs	700 lbs	4.2"	2.1"	30 lbs/Mft
								12	.260"	2,100 lbs	700 lbs	4.2"	2.1"	34 lbs/Mft
								18	.300"	2,400 lbs	800 lbs	4.8"	2.4"	40 lbs/Mft
								24	.330"	3,000 lbs	1000 lbs	5.4"	2.7"	50 lbs/Mft
<i>Tactical Single-mode Fiber: Distribution</i>														
FSB**T	Acrylate Tight Buffer Coating (.9mm OD) with Kevlar 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	.260"	2,200 lbs	550 lbs	4.2"	2.1"	21 lbs/Mft
								4	.290"	2,200 lbs	550 lbs	4.6"	2.3"	28 lbs/Mft
								6	.340"	2,400 lbs	600 lbs	5.4"	2.7"	36 lbs/Mft
								8	.390"	3,200 lbs	800 lbs	6.2"	3.1"	50 lbs/Mft
								10	.450"	4,000 lbs	1000 lbs	7.2"	3.6"	59 lbs/Mft
								12	.480"	4,800 lbs	1200 lbs	7.6"	3.8"	65 lbs/Mft
								18	.570"	7,200 lbs	1,800 lbs	9.2"	4.6"	73 lbs/Mft
								24	.570"	9,600 lbs	2,400 lbs	9.2"	4.6"	105 lbs/Mft
<i>Tactical Single-mode Fiber: Breakout</i>														

Meets or Exceeds: TIA/EIA-455-41 Mil Requirements (Crush Resistance)
TIA/EIA-455-25 Mil Requirements (Impact Resistance)
TIA/EIA-455-104 Mil Requirements (Flex Resistance)

Tactical: Multi-mode

Features & Benefits

- Exceptionally Rugged
- Crush Resistant
- Low-loss Multi-mode Fiber
- Distribution & Breakout Type Constructions
- Armid Filler
- Polyurethane Outer Jacket
- Meets or Exceeds TIA/EIA Mil

Applications

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

Exceptionally rugged, light-weight, single-mode fiber optic cables for portable applications in harsh environments. 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 multi-mode fiber elements are coated with a 900 μ m, hard elastomeric, tight buffer. Available in two series, the distribution series features an armid strength member filler for exceptional strength, while the breakout series features armid 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 μ m	125 μ m	\leq 3.50 dB/Km @ 850nm, \leq 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 (.9mm OD) with Overall Kevlar Filler	PU, Black	440 N/cm	200 Impacts	2000 Cycles	-55°C to +85°C	-70°C to +85°C	2	.200"	1,800 lbs	600 lbs	3.2"	1.6"	15 lbs/Mft
								4	.220"	1,800 lbs	600 lbs	3.6"	1.8"	19 lbs/Mft
								6	.240"	1,800 lbs	600 lbs	3.8"	1.9"	19 lbs/Mft
								8	.260"	1,800 lbs	600 lbs	4.2"	2.1"	26 lbs/Mft
								10	.260"	2,100 lbs	700 lbs	4.2"	2.1"	30 lbs/Mft
								12	.260"	2,100 lbs	700 lbs	4.2"	2.1"	34 lbs/Mft
								18	.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 (.9mm OD) with PU, Kevlar Filler & PVC Tube Jacket for Each Fiber	Black	440 N/cm	200 Impacts	2000 Cycles	-55°C to +85°C	-70°C to +85°C	2	.260"	2,200 lbs	550 lbs	4.2"	2.1"	21 lbs/Mft
								4	.290"	2,200 lbs	550 lbs	4.6"	2.3"	28 lbs/Mft
								6	.340"	2,400 lbs	600 lbs	5.4"	2.7"	36 lbs/Mft
								8	.390"	3,200 lbs	800 lbs	6.2"	3.1"	50 lbs/Mft
								10	.450"	4,000 lbs	1000 lbs	7.2"	3.6"	59 lbs/Mft
								12	.480"	4,800 lbs	1200 lbs	7.6"	3.8"	65 lbs/Mft
								18	.570"	7,200 lbs	1,800 lbs	9.2"	4.6"	73 lbs/Mft
24	.570"	9,600 lbs	2,400 lbs	9.2"	4.6"	105 lbs/Mft								
Tactical Multi-mode Fiber: Breakout														

Meets or Exceeds: TIA/EIA-455-41 Mil Requirements (Crush Resistance)
TIA/EIA-455-25 Mil Requirements (Impact Resistance)
TIA/EIA-455-104 Mil Requirements (Flex Resistance)

Single-mode Fiber Optic

Features & Benefits

Low-loss, Single-mode Optical Glass Fibers

Distribution & Breakout Type Constructions

Armied Filler

1 Through 144 Elements

PVC or PVDF Jacket

Riser or Plenum Rated

Applications

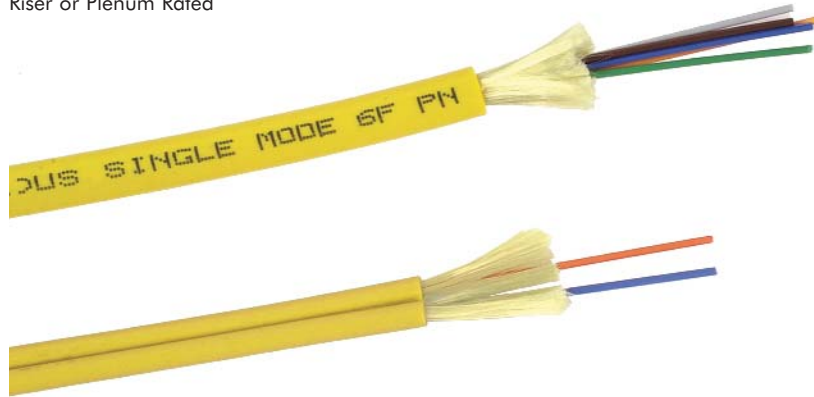
Interconnection of Video & Audio Data for Multiple HD Cameras

For Permanent Installation

Ideal for Use with Gepco Electrical HD Cables & HDR Hybrid Fiber Distribution Rack System

Indoor/Outdoor Use

Low-loss, single-mode, fiber optic cable available in breakout and distribution type constructions, UL plenum or riser rated. 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 the HDR distribution rack system, 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 (.9mm OD) with Overall Armied Filler	2	.180"	PVC	310 lbs	100 lbs	2.7"	1.8"	14 lbs/Mft	OFNR		
		4	.200"	PVC	310 lbs	100 lbs	3.0"	2.0"	17 lbs/Mft			
		6	.220"	PVC	310 lbs	100 lbs	3.3"	2.2"	19 lbs/Mft			
		8	.240"	PVC	360 lbs	120 lbs	3.6"	2.4"	22 lbs/Mft			
		12	.260"	PVC	600 lbs	135 lbs	3.9"	2.6"	25 lbs/Mft			
		24	.330"	PVC	670 lbs	220 lbs	5.0"	3.3"	44 lbs/Mft			
		36	.350"	PVC	670 lbs	220 lbs	5.3"	3.5"	51 lbs/Mft			
Single-mode Distribution: Riser Rated												
FSD**P	Acrylate Tight Buffer Coating (.9mm OD) with Overall Armied Filler	2	.160"	Plenum PVC	270 lbs	90 lbs	2.4"	1.6"	9 lbs/Mft	OFNP		
		4	.180"	Plenum PVC	270 lbs	90 lbs	2.7"	1.8"	11 lbs/Mft			
		6	.200"	Plenum PVC	310 lbs	100 lbs	3.0"	2.0"	15 lbs/Mft			
		8	.220"	Plenum PVC	360 lbs	120 lbs	3.3"	2.2"	19 lbs/Mft			
		12	.220"	Plenum PVC	400 lbs	135 lbs	3.3"	2.2"	19 lbs/Mft			
		24	.280"	PVDF	670 lbs	220 lbs	4.2"	4.2"	36 lbs/Mft			
		36	.310"	PVDF	670 lbs	220 lbs	4.7"	4.7"	52 lbs/Mft			
Single-mode Distribution: Plenum Rated												
FSB**R	Acrylate Tight Buffer Coating (.9mm OD) with Armied Filler & PVC Tube Jacket for Each Fiber	1 (Simplex)	.110"	PVC	110 lbs	70 lbs	2"	1.2"	5 lbs/Mft	OFNR		
		2 (Duplex)	.110"x.230"	PVC	220 lbs	110 lbs	2"	1.2"	11 lbs/Mft			
		2	.280"	PVC	270 lbs	110 lbs	4.2"	2.8"	34 lbs/Mft			
		4	.310"	PVC	450 lbs	180 lbs	4.7"	3.1"	44 lbs/Mft			
		6	.370"	PVC	670 lbs	270 lbs	5.6"	3.7"	55 lbs/Mft			
		8	.450"	PVC	900 lbs	380 lbs	6.8"	4.5"	75 lbs/Mft			
		12	.490"	PVC	1350 lbs	560 lbs	7.4"	4.9"	101 lbs/Mft			
		24	.690"	PVC	2250 lbs	850 lbs	10.4"	6.9"	183 lbs/Mft			
		36	.790"	PVC	3150 lbs	1350 lbs	11.9"	7.9"	214 lbs/Mft			
Single-mode Breakout: Riser Rated												
FSB**P	Acrylate Tight Buffer Coating (.9mm OD) with Armied Filler & Plenum PVC or PVDF Tube Jacket for Each Fiber	1 (Simplex)	.110"	Plenum PVC	110 lbs	70 lbs	2"	1.2"	6 lbs/Mft	OFNP		
		2 (Duplex)	.110"x.230"	Plenum PVC	220 lbs	110 lbs	2"	1.2"	12 lbs/Mft			
		2	.240"	PVDF	360 lbs	90 lbs	3.6"	3.6"	23 lbs/Mft			
		4	.240"	PVDF	360 lbs	90 lbs	3.6"	3.6"	23 lbs/Mft			
		6	.280"	PVDF	540 lbs	130 lbs	4.2"	4.2"	32 lbs/Mft			
		8	.330"	PVDF	720 lbs	180 lbs	5.0"	5.0"	48 lbs/Mft			
		12	.390"	PVDF	1080 lbs	270 lbs	5.9"	5.9"	63 lbs/Mft			
		24	.510"	PVDF	1620 lbs	400 lbs	7.7"	7.7"	99 lbs/Mft			
				36	.630"	PVDF	2160 lbs	540 lbs	9.5"		9.5"	154 lbs/Mft
		Single-mode Breakout: Plenum Rated										

Other fiber counts available up to 144 elements. Please consult Gepco for details.

Call for color availability.

Please see fiber buffer color code chart #4 on page 98.

Multi-mode Fiber Optic

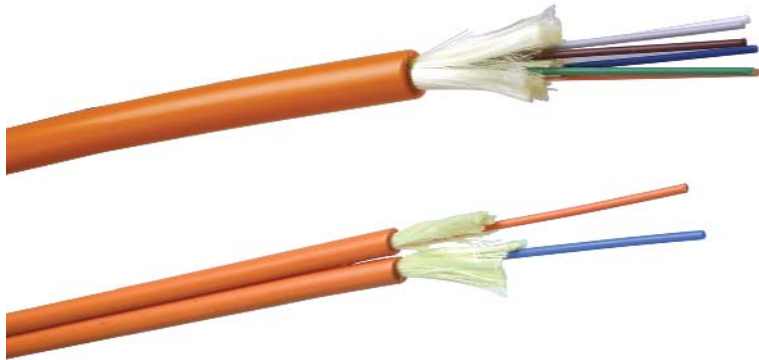
Features & Benefits

- Low-loss, Multi-mode Optical Glass Fibers
- Distribution & Breakout Type Constructions
- Armid Filler
- 1 Through 144 Elements
- PVC or PVDF Jacket
- Riser or Plenum Rated

Applications

- For Permanent Installation
- Indoor/Outdoor Use

Indoor/outdoor distribution multi-mode fiber for audio, video, or data networking applications. This series is available in both breakout and distribution type constructions. Distribution types feature individually coated fibers with an overall Kevlar filler and jacket. Breakout types have individual Kevlar 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 (.9mm OD) with Overall Armid Filler	2	.180"	PVC	310 lbs	100 lbs	2.7"	1.8"	14 lbs/Mft	OFNR
		4	.200"	PVC	310 lbs	100 lbs	3.0"	2.0"	17 lbs/Mft	
		6	.220"	PVC	310 lbs	100 lbs	3.3"	2.2"	19 lbs/Mft	
		8	.240"	PVC	360 lbs	120 lbs	3.6"	2.4"	22 lbs/Mft	
		12	.260"	PVC	600 lbs	135 lbs	3.9"	2.6"	25 lbs/Mft	
		24	.330"	PVC	670 lbs	220 lbs	5.0"	3.3"	44 lbs/Mft	
		36	.350"	PVC	670 lbs	220 lbs	5.3"	3.5"	51 lbs/Mft	
Multi-mode Distribution Fiber: Riser Rated										
FMD**P	Acrylate Tight Buffer Coating (.9mm OD) with Overall Armid Filler	2	.160"	Plenum PVC	270 lbs	90 lbs	2.4"	1.6"	9 lbs/Mft	OFNP
		4	.180"	Plenum PVC	270 lbs	90 lbs	2.7"	1.8"	11 lbs/Mft	
		6	.200"	Plenum PVC	310 lbs	100 lbs	3.0"	2.0"	15 lbs/Mft	
		8	.220"	Plenum PVC	360 lbs	120 lbs	3.3"	2.2"	19 lbs/Mft	
		12	.220"	Plenum PVC	400 lbs	135 lbs	3.3"	2.2"	19 lbs/Mft	
		24	.280"	PVDF	670 lbs	220 lbs	4.2"	4.2"	36 lbs/Mft	
		36	.310"	PVDF	670 lbs	220 lbs	4.7"	4.7"	52 lbs/Mft	
Multi-mode Distribution Fiber: Plenum Rated										
FMB**R	Acrylate Tight Buffer Coating (.9mm OD) with Armid Filler & PVC Tube Jacket for Each Fiber	1 (Simplex)	.110"	PVC	110 lbs	70 lbs	2"	1.2"	5 lbs/Mft	OFNR
		2 (Duplex)	.110"x.230"	PVC	220 lbs	110 lbs	2"	1.2"	11 lbs/Mft	
		2	.280"	PVC	270 lbs	110 lbs	4.2"	2.8"	34 lbs/Mft	
		4	.310"	PVC	450 lbs	180 lbs	4.7"	3.1"	44 lbs/Mft	
		6	.370"	PVC	670 lbs	270 lbs	5.6"	3.7"	55 lbs/Mft	
		8	.450"	PVC	900 lbs	380 lbs	6.8"	4.5"	75 lbs/Mft	
		12	.490"	PVC	1350 lbs	560 lbs	7.4"	4.9"	101 lbs/Mft	
		24	.690"	PVC	2250 lbs	850 lbs	10.4"	6.9"	183 lbs/Mft	
36	.790"	PVC	3150 lbs	1350 lbs	11.9"	7.9"	214 lbs/Mft			
Multi-mode Breakout Fiber: Riser Rated										
FMB**P	Acrylate Tight Buffer Coating (.9mm OD) with Armid Filler & Plenum PVC or PVDF Tube Jacket for Each Fiber	1 (Simplex)	.110"	Plenum PVC	110 lbs	70 lbs	2"	1.2"	6 lbs/Mft	OFNP
		2 (Duplex)	.110"x.230"	Plenum PVC	220 lbs	110 lbs	2"	1.2"	12 lbs/Mft	
		2	.240"	PVDF	360 lbs	90 lbs	3.6"	3.6"	23 lbs/Mft	
		4	.240"	PVDF	360 lbs	90 lbs	3.6"	3.6"	23 lbs/Mft	
		6	.280"	PVDF	540 lbs	130 lbs	4.2"	4.2"	32 lbs/Mft	
		8	.330"	PVDF	720 lbs	180 lbs	5.0"	5.0"	48 lbs/Mft	
		12	.390"	PVDF	1080 lbs	270 lbs	5.9"	5.9"	63 lbs/Mft	
		24	.510"	PVDF	1620 lbs	400 lbs	7.7"	7.7"	99 lbs/Mft	
36	.630"	PVDF	2160 lbs	540 lbs	9.5"	9.5"	154 lbs/Mft			
Multi-mode Breakout Fiber: Plenum Rated										

Other fiber counts available up to 144 elements. Please consult Gepeco for details. Call for color availability. Please see fiber buffer color code chart #4 on page 98.

NETWORK CABLES

In This Section:

- 84 Category 5e+ Network
 - 85 Category 6 Network
 - 86 Heavy-duty Tactical Cat5e Network: Extra-flexible
 - 87 Heavy-duty Tactical Cat5e Network: Low-loss
 - 88 Four-channel Heavy-duty Tactical Cat5e Snake
 - 89 Low-capacitance Multi-pair
 - 90 Ultra-low Skew UTP
 - 91 Heavy-duty, Ultra-low Skew UTP
 - 92 Two-pair Shielded
 - 93 DMX512 Lighting Control
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 - 95 Elan Via!
 - 96 Touch Panel Control
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- 

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 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 each 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

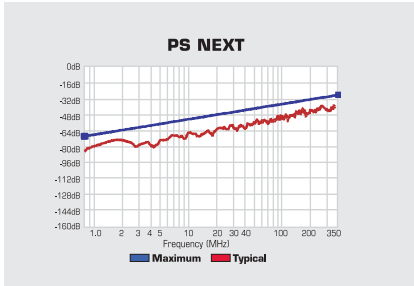
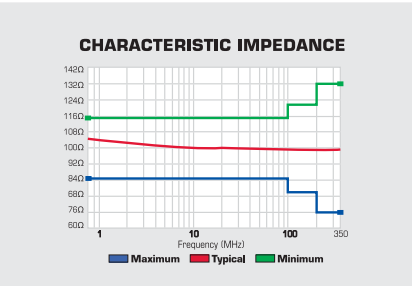
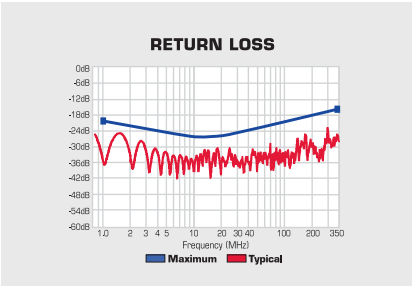
Each cable is designed to meet or exceed all relevant industry or manufacturer standards. This ensures compatibility and consistent performance in networking, touch panel, audio and video systems.

Precision Characteristic Impedance

Gepco 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-B.2 performance standards.



Category 5e+ Network

Features & Benefits

Low Insertion Loss, Crosstalk, & Return Loss
 Enhanced 350MHz Bandwidth
 Precision 100Ω Impedance
 Four Twisted-pairs
 Characterized up to or Beyond TIA/EIA Standards
 Category 5e Compliant
 ETL Verified
 Riser & Plenum Versions

Applications

Ethernet or Gigabit Ethernet
 High Data-rate Applications

Gepco 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 verified to ensure consistent performance. Available in both plenum and riser constructions, Gepco Category 5e+ cables can be installed in a variety of applications and environments.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation	Jacket	UL Type	Weight
CT504/350	4	.200"	24 AWG Solid BC	Polyolefin	PVC	CMR	27 lbs/Mft
Category 5e+ Four-pair 350MHz							
CT504/350P	4	.180"	24 AWG Solid BC	3 Pairs FEP/1 Pair FR Polyolefin	Plenum PVC	CMP	23.5 lbs/Mft
Category 5e+ Four-pair 350MHz: Plenum							

Electrical Specifications

Part #	DCR Max (1000')	DCR Unbal. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop. (Nonplenum, Plenum)	Standards										
CT504/350 Series	27.2 Ω	3%	100 Ω (+/-15)	45 ns/100m	70%, 72%	Meets or Exceeds TIA/EIA-568-B.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
		PSELFEXT (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
		ELFEXT (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)	25.0	25.0	25.0	25.0	25.0	24.3	23.6	21.5	20.1	—	—	—	—	—

Category 6 Network

Features & Benefits

- Low Insertion Loss, Crosstalk, & Return Loss
- Precision 100Ω Impedance
- Four Twisted-pairs
- Characterized up to or Beyond TIA/EIA Standards
- Category 6 Compliant
- ETL Verified
- Riser & Plenum Versions

Applications

- Ethernet or Gigabit Ethernet
- High Data-rate Applications

Gepco Category 6 and 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 verified to ensure consistent performance. Available in both plenum and riser constructions, Gepco Category 6 and 6+ cables can be installed in a variety of applications and environments.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation	Jacket	UL Type	Weight
CT604/250	4	.220"	23 AWG Solid BC	Polyolefin	PVC	CMR	28 lbs/Mft
Category 6 Four-pair 250MHz							
CT604/250P	4	.215"	23 AWG Solid BC	3 Pairs FEP/1 Pair FR Polyolefin	Plenum PVC	CMP	28 lbs/Mft
Category 6 Four-pair 250MHz: Plenum							
CT604/500	4	.248"	23 AWG Solid BC	Polyolefin	PVC with Central Spacer	CMR	28 lbs/Mft
Category 6 Four-pair 500MHz							
CT604/500P	4	.235"	23 AWG Solid BC	3 Pairs FEP/1 Pair FR Polyolefin	Plenum PVC with Central Spacer	CMP	31 lbs/Mft
Category 6 Four-pair 500MHz: Plenum							

Electrical Specifications

Part #	DCR Max (1000')	DCR Unbal. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop. (Nonplenum, Plenum)	Standards														
CT604/250 Series	27.2 Ω	3%	100 Ω (+/-15)	35 ns/100m	70%, 72%	Meets or Exceeds TIA/EIA-568-B.2-1 Cat 6, ISO/IEC 11801 Ed. 2.0														
						Freq. (MHz)	1	4	10	16	20	31.25	62.5	100	200	250	350	400	500	
						Insertion Loss (dB/100m) (max)	2.0	3.8	5.9	7.4	8.4	10.6	15.3	19.7	28.8	32.7	39.6	42.7	48.7	
						PSACR (dB/100m) (min)	71.3	60.5	52.4	47.7	45.4	40.3	31.1	23.6	9.9	4.6	—	—	—	
						ACR (dB/100m) (min)	73.3	62.5	54.4	49.7	47.4	42.3	33.1	25.6	11.9	6.6	2.0	—	—	
						PSNEXT (dB/100) (min)	73.3	64.3	58.3	55.3	53.8	50.9	46.4	43.3	38.8	37.3	35.2	34.3	32.8	
						NEXT (dB/100) (min)	75.3	66.3	60.3	57.3	55.8	52.9	48.4	45.3	40.8	39.3	37.2	36.3	34.8	
						PSELFEXT (dB/100m) (min)	65.8	53.8	45.8	41.7	39.8	37.8	29.9	25.8	19.8	17.8	—	—	—	
						ELFEXT (dB/100m) (min)	68.8	56.8	48.8	44.7	42.8	38.9	32.9	28.8	22.8	20.8	—	—	—	
						Return Loss (dB) (min)	20.0	23.0	25.0	25.0	25.0	23.6	21.5	20.1	18.0	17.3	—	—	—	
						LCL (dB/100m) (min)	50.0	44.0	40.0	38.0	37.0	35.1	32.0	30.0	27.0	26.0	—	—	—	
						ELTCTL (dB/100m) (min)	35.0	23.0	15.0	10.9	9.0	5.1	—	—	—	—	—	—	—	
						CT604/500 Series	27.2 Ω	3%	100 Ω (+/-15)	45 ns/100m	70%, 72%	Meets or Exceeds TIA/EIA-568-B.2-1 Cat 6, ISO/IEC 11801 Ed. 2.0								
Freq. (MHz)	1	4	10	16	20							31.25	62.5	100	200	250	300	350	400	500
Insertion Loss (dB/100m) (max)	2.0	3.7	5.8	7.4	8.3							10.5	15.1	19.4	28.4	32.2	35.7	39.0	42.1	48.0
PSACR (dB/100m) (min)	74.3	63.6	55.5	50.8	48.5							43.4	34.3	26.9	13.4	8.1	3.4	0.1	—	
ACR (dB/100m) (min)	76.3	65.6	57.5	52.8	50.5							45.4	36.3	28.9	15.4	10.1	5.4	1.1	—	
PSNEXT (dB/100) (min)	76.3	67.3	61.3	58.2	56.8							53.9	49.4	46.3	41.8	40.3	39.1	38.1	37.3	35.8
NEXT (dB/100) (min)	78.3	69.3	63.3	60.2	58.8							55.9	51.4	48.3	43.8	42.3	41.1	40.1	39.3	37.8
PSELFEXT (dB/100m) (min)	68.8	56.8	48.8	44.7	42.8							38.9	32.9	28.8	22.8	20.8	19.3	17.9	16.8	14.8
ELFEXT (dB/100m) (min)	71.8	59.8	51.8	47.7	45.8							41.9	35.9	31.8	25.8	23.8	22.3	20.9	19.8	17.8
Return Loss (dB) (min)	20.0	23.0	25.0	25.0	25.0							23.6	21.5	20.1	18.0	17.3	16.8	16.3	15.9	15.2
LCL (dB/100m) (min)	40.0	40.0	40.0	38.0	37.0							35.1	32.0	30.0	27.0	26.0	—	—	—	
ELTCTL (dB/100m) (min)	35.0	23.0	15.0	10.9	9.0							5.1	—	—	—	—	—	—	—	

Heavy-duty Tactical Cat5e Network: Extra-flexible

Features & Benefits

Durable TPE Outer Jacket
 Extra-flexible
 Unique Inner Belt Maintains Electrical Characteristics in Portable Applications
 Meets or Exceeds ISO/IEC 11801 Standard for Cat5e Patch Cable
 Stranded 24 Gage Conductors for Exceptional Flex-life
 100MHz Bandwidth
 Terminates with Neutrik EtherCon® Connectors

Applications

Ethernet Network Patching
 For Portable Use or Remote Environments

Heavy-duty tactical Category 5e cable for portable or remote patching of Ethernet networks or digital audio/video formats that utilize Cat5e type interconnects. The CT504HD features exceptional durability and flexibility through a unique double jacket construction and stranded copper conductors. The inner jacket of the CT504HD 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 CT504HD is intended for use with Neutrik EtherCon® connectors and is also available from Gepco as preterminated cable assemblies.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation	Pair Color Code	Inner Jacket (Type, OD)	Outer Jacket	UL Type	Weight
CT504HD	4	.260"	24 AWG (41x40) Stranded TC	PE	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Clear TPE, .190"	Black TPE	AWM Style 21144	26 lbs/Mft

Electrical Specifications

DCR Max	DCR Unbal. Max	Mutual Capac. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop.	Standards																																																																								
28.6 Ω/Mft	5%	17 pF/ft	100 Ω	45 ns/100m	69%	ISO/IEC 11801 Cat 5e Patch Cable																																																																								
						<table border="1"> <thead> <tr> <th>Freq. (MHz)</th> <th>0.772</th> <th>1</th> <th>4</th> <th>8</th> <th>10</th> <th>16</th> <th>20</th> <th>25</th> <th>31.25</th> <th>62.5</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Insertion Loss (dB/100m)</td> <td>2.7</td> <td>3.0</td> <td>6.2</td> <td>8.7</td> <td>9.8</td> <td>12.3</td> <td>14.0</td> <td>15.6</td> <td>17.6</td> <td>25.5</td> <td>33.0</td> </tr> <tr> <td>PSNEXT (dB)</td> <td>64.0</td> <td>62.3</td> <td>53.3</td> <td>48.8</td> <td>47.3</td> <td>44.3</td> <td>42.8</td> <td>41.3</td> <td>39.9</td> <td>35.4</td> <td>32.3</td> </tr> <tr> <td>PSACR (dB/100m)</td> <td>61.3</td> <td>59.3</td> <td>47.2</td> <td>40.1</td> <td>37.6</td> <td>32.0</td> <td>28.9</td> <td>25.7</td> <td>22.4</td> <td>9.9</td> <td>-0.7</td> </tr> <tr> <td>PSELFEXT (dB/100m)</td> <td>63.0</td> <td>60.8</td> <td>48.7</td> <td>42.7</td> <td>40.8</td> <td>36.7</td> <td>34.7</td> <td>32.8</td> <td>30.9</td> <td>24.8</td> <td>20.8</td> </tr> <tr> <td>RL (dB)</td> <td>----</td> <td>20.0</td> <td>23.0</td> <td>24.5</td> <td>25.0</td> <td>25.0</td> <td>25.0</td> <td>24.2</td> <td>23.3</td> <td>20.7</td> <td>19.0</td> </tr> </tbody> </table>	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	PSELFEXT (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
Freq. (MHz)	0.772	1	4	8	10	16	20	25	31.25	62.5	100																																																																			
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PSELFEXT (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																																																																			

Heavy-duty Tactical Cat5e Network: Low-loss

Features & Benefits

- Durable TPE Outer Jacket
- Flexible
- Unique Inner Belt Maintains Electrical Characteristics in Portable Applications
- Meets or Exceeds ISO/IEC & TIA Standards for Cat5e Cable
- 24 Gage Solid Conductors
- 100MHz Bandwidth
- Terminates with Neutrik EtherCon® Connectors

Applications

- Ethernet Network Patching
- For Portable Use or Remote Environments

Heavy-duty tactical Category 5e 100MHz cable for portable or remote patching of Ethernet networks or digital audio/video formats that utilize Cat5e type interconnects. The CT504HDX features the same double jacket construction as the original CT504HD for exceptional durability, but with solid conductors for lower attenuation that allows for the full recommended TIA distances for Cat5e network cable. The inner jacket maintains the proper physical spacing between pairs to achieve the ISO/IEC or TIA CaT5e specifications, while the durable TPE outer jacket protects the cable from physical damage or abuse. The CT504HDX is intended for use with Neutrik EtherCon® connectors and is also available from Gepco as preterminated cable assemblies.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation	Pair Color Code	Inner Jacket (Type, OD)	Outer Jacket	UL Type	Weight
CT504HDX	4	.245"	24 AWG Solid BC	PE	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Clear TPE, .190"	Black TPE	AWM Style 21144	26 lbs/Mft

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							
			0.772	1	4	8	10	16	20	25	31.25	62.5	100
Freq. (MHz)			1.8	2.0	4.1	5.8	6.5	8.2	9.3	10.4	11.7	17.0	22.0
Insertion Loss (dB/100m)			64.0	62.3	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.4	32.3
PSNEXT (dB)			62.2	60.3	49.2	43.0	40.8	36.1	33.5	30.9	28.2	18.4	10.3
PSACR (dB/100m)			63.0	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8
PSELFEXT (dB/100m)			---	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1
RL (dB)													

Four-channel Heavy-duty Tactical Cat5e Snake

Features & Benefits

- Unique Four-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 Gage Conductors
- Terminates with Neutrik EtherCon® Connectors

Applications

- Ethernet Network Patching
- For Portable Use or Remote Environments

Unique four-channel, heavy-duty Cat5e snake ideal for applications that require multiple or redundant channels of Cat5e cables in remote production or staging applications. The CTS4504HDX consists of four elements of Gepco's CT504HDX heavy-duty, four-pair Cat5e UTP cables under an overall jacket. Each element features 24 gage, 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 Cat5 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)	UL Type	Weight
CTS4504HDX	4 (4 Pair UTP)	Black TPE, .650"	24 AWG Solid BC	PE	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Clear TPE, .190"	Black, Gray, Blue & Purple TPE, .245"	AWM Style 21144	200 lbs/Mft

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																																																																								
						<table border="1"> <thead> <tr> <th>Freq. (MHz)</th> <th>0.772</th> <th>1</th> <th>4</th> <th>8</th> <th>10</th> <th>16</th> <th>20</th> <th>25</th> <th>31.25</th> <th>62.5</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Insertion Loss (dB/100m)</td> <td>1.8</td> <td>2.0</td> <td>4.1</td> <td>5.8</td> <td>6.5</td> <td>8.2</td> <td>9.3</td> <td>10.4</td> <td>11.7</td> <td>17.0</td> <td>22.0</td> </tr> <tr> <td>PSNEXT (dB)</td> <td>64.0</td> <td>62.3</td> <td>53.3</td> <td>48.8</td> <td>47.3</td> <td>44.3</td> <td>42.8</td> <td>41.3</td> <td>39.9</td> <td>35.4</td> <td>32.3</td> </tr> <tr> <td>PSACR (dB/100m)</td> <td>62.2</td> <td>60.3</td> <td>49.2</td> <td>43.0</td> <td>40.8</td> <td>36.1</td> <td>33.5</td> <td>30.9</td> <td>28.2</td> <td>18.4</td> <td>10.3</td> </tr> <tr> <td>PSELFEXT (dB/100m)</td> <td>63.0</td> <td>60.8</td> <td>48.7</td> <td>42.7</td> <td>40.8</td> <td>36.7</td> <td>34.7</td> <td>32.8</td> <td>30.9</td> <td>24.8</td> <td>20.8</td> </tr> <tr> <td>RL (dB)</td> <td>---</td> <td>20.0</td> <td>23.0</td> <td>24.5</td> <td>25.0</td> <td>25.0</td> <td>25.0</td> <td>24.3</td> <td>23.6</td> <td>21.5</td> <td>20.1</td> </tr> </tbody> </table>	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	PSELFEXT (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
Freq. (MHz)	0.772	1	4	8	10	16	20	25	31.25	62.5	100																																																																			
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Low-capacitance Multi-pair

Features & Benefits

- Low Capacitance
- Polyethylene Dielectric
- Overall Shield & Drain Wire
- Two or Four Pairs
- CM Rated

Applications

- General Purpose Data
- Machine Control
- Extended Distance Runs

Shielded, low-capacitance, twisted-pairs under a single round jacket. The 6100 series features an extra-thick, solid polyethylene dielectric to reduce the high frequency attenuation of the pairs. Overall foil shield with drain supplies RF protection in addition to the common-mode rejection provided by the twisted-pairs. Ideal for higher data rates, machine control, or extended distance runs where capacitance needs to be minimized.



Mechanical Specifications (Series)					
Conductors	Insulation/Color Code	Overall Shield	Overall Drain Wire	Jacket	UL Type
24 AWG (7x32) Stranded TC	PE, .015" Wall/See Color Code Chart #3, Page 98	100% Foil	24 AWG (7x32) Stranded TC	PVC, Gray	CM
Mechanical Specifications (Individual)					
Part #	# of Pairs	Nominal OD	Approx. Weight		
6104	2 <i>Low Capacitance Two-pair</i>	.234"	27 lbs/Mft		
6108	4 <i>Low Capacitance Four-pair</i>	.277"	43 lbs/Mft		
Electrical Specifications					
Capacitance	Cond. DCR	Drain DCR			
12.8 pF/ft between conductors, 23.6 pF/ft between one conductor and other tied to shield	23.8 Ω/Mft	23.8 Ω/Mft			

Ultra-low Skew UTP

Features & Benefits

Low 2.2ns Skew
 Four Pairs
 23 Gage Solid Copper Conductors
 Cost Effective
 UL Rated for Permanent Installation

Applications

RGB Analog Video Transmission
 Not Rated for Data Networking Applications



Four-pair, unshielded, twisted-pair cable for low-cost, component analog video transmission. Each pair is constructed from 23 gage solid copper conductors, insulated with a data-grade PVC dielectric. Unlike category-grade data networking cables, the LSK ultra-low skew cables feature a constant pair lay with a maximum time delay differential of 2.2 nano seconds (per 100m) between any two pairs. This allows for the red, green, and blue components of the video signal to arrive with near zero time delay. As a result, timing errors due to cable skew are minimized and each component of the video signal remains synchronized.

Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation	Jacket	UL Type	Weight
LSK04	4	.228"	23 AWG Solid BC	Polyethylene	PVC	CMR	24 lbs/Mft
	<i>Low Skew Four-pair UTP: Riser</i>						
LSK04P	4	.228"	23 AWG Solid BC	Plenum Thermoplastic	Plenum PVC	CMP	25 lbs/Mft
	<i>Low Skew Four-pair UTP: Plenum</i>						

Electrical Specifications

Part #	DCR Max	DCR Unbal. Max	Mutual Capac. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop. (Nonplenum, Plenum)										
LSK04			17 pF/ft	100 Ω	2.2 ns/100m	69%, 72%										
LSK04P	28.6 Ω	5%				0.772	1	4	8	10	16	20	25	31.25	62.5	100
						Insertion Loss (dB/100m)										
						1.7	1.9	3.9	5.5	6.2	7.9	8.9	10.0	11.3	16.3	21.2

Heavy-duty, Ultra-low Skew UTP

Features & Benefits

- Low 2.2ns Skew
- Four Pairs
- 23 Gage Solid Copper Conductors
- Heavy-duty Construction
- Double Jacket

Applications

- RGB Analog Video Transmission
- Not Rated for Data Networking Applications
- For Portable or Staging Applications

Heavy-duty, four-pair, unshielded, twisted-pair cable for component analog video transmission in portable or staging applications. Based on the LSK04, each pair in the LSK04HD is constructed from 23 gage solid copper and a precision 100Ω dielectric. For added strength and diameter, the LSK04HD has a unique double-jacket design. The inner jacket maintains the critical spacing of the twisted-pair elements, while the outer TPE jacket offers additional strength, durability, diameter, and abrasion resistance. Like the LSK04, the LSK04HD provides a consistent pair lay with a maximum time-delay differential of 2.2 nanoseconds (per 100m) between any two pairs. This minimized pair skew (or delay) allows for red, green, and blue video components to remain in sync, ensuring optimal picture quality and reliable video distribution.



Mechanical Specifications														
Part #	# of Pairs	Conductors	Insulation	Pair Color Code	Inner Jacket (Type, OD)	Outer Jacket (Type, OD)	Weight							
LSK04HD	4	23 AWG Solid BC	Polyethylene	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Clear TPE, .195"	Black TPE, .260"	29 lbs/Mft							
<i>Heavy-duty, Low-skew Four-pair UTP</i>														
Electrical Specifications														
DCR Max	DCR Unbal. Max	Mutual Capac. Max	Char. Impedance	Prop. Delay (Skew) Max				Vel. of Prop. (Nonplenum, Plenum)						
28.6 Ω	5%	17 pF/ft	100 Ω	2.2 ns/100m				69%, 72%						
Freq. (MHz)				0.772	1	4	8	10	16	20	25	31.25	62.5	100
Insertion Loss (dB/100m)				1.7	1.9	3.9	5.5	6.2	7.9	8.9	10.0	11.3	16.3	21.2

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

General Purpose, Two-pair Data
Machine Control

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



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	.173"	22 AWG (7x30) Stranded TC	PE, .008" Wall/ Red & Black, White & Green	100% Foil (Each Pair)	24 AWG (7x32) Stranded TC	PVC, Black or Gray	CM	21 lbs/Mft
	<i>Audio/Control Two-pair</i>								
6600HS	2	.178"	22 AWG (7x30) Stranded TC	Halar, .011" Wall/ Red & Black, White & Green	100% Foil (Each Pair)	24 AWG (7x32) Stranded TC	Plenum PVC, White	CMP	22 lbs/Mft
	<i>Audio/Control Two-pair: Plenum</i>								

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

DMX512 Lighting Control Cable

Features & Benefits

- True DMX512 Construction
- Two 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
- Durable, Flexible, All-weather Jacket

Applications

- DMX512 Lighting Control
- Remote or Permanent Installation

The Gepco DLC224 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 - 120Ω impedance, low capacitance, and double (foil and braid) shield. Unlike conventional cables that are not intended for data transmission, the DLC224 offers reliable data transfer through its data-specific design. In addition, DLC224 features 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
DLC224	4	.270"	24 AWG (7x32) Stranded TC	Foam PE, .020" Wall/ White & Black, Red & Blue	100% Foil, 90% TC Braid	24 AWG (7x32) Stranded TC	Flexible All-weather TPE, Black	44 lbs/Mft

Electrical Specifications

Capacitance	Characteristic Impedance	Cond. DCR	Shield & Drain DCR
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

AMX AXLink™

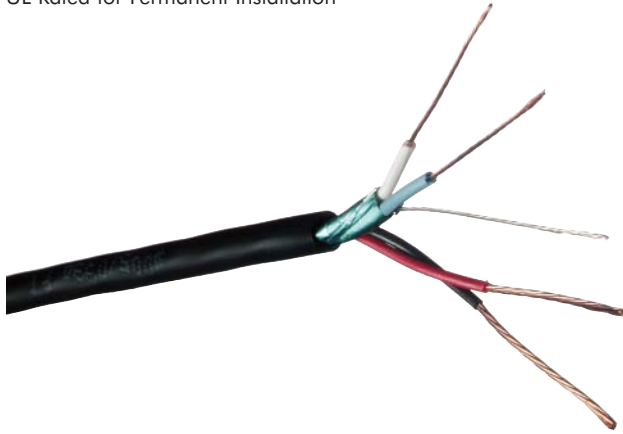
Features & Benefits

- 22 Gage Low-cap, Shielded Single-pair
- Low-loss Foam Dielectric (Data Pair)
- 18 Gage Power Conductors
- UL Rated for Permanent Installation

Applications

- AMX AXLink™ Systems
- Networking & Automation

Touch panel automation cable for AMX AXLink™ systems. The cable construction is a hybrid of data and power elements. The data pair is constructed from 22 gage conductors insulated with a data-grade, foam PE dielectric that has a low k constant which reduces the high frequency loss of the cable. In addition, the data pairs are shielded with a 100% foil and drain for additional RF/EMI protection and suppression. The power elements consist of larger 18 gage conductors that minimize DC resistance and power loss. UL Rated, AMX AXLink™ cables are available in plenum and riser versions.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductor	Data Insulation (Type, OD)	Data Shield & Drain	Power Conductors	Power Insulation	Overall Jacket	UL Type	Approx. Weight
18/22AXL	2	.242"	22 AWG (7x30) Stranded BC	Foam PE, .022", Blue & White	100% Foil with 24 AWG (7x32) Stranded TC	18 AWG (7x26) Stranded BC	PVC, .010", Red & Black	PVC, Black	CL3R, FT-4	41 lbs/Mft
	AXLink™ Control Cable									
18/22AXLP	2	.195"	22 AWG (7x30) Stranded BC	Foam FEP, .020", Blue & White	100% Foil with 24 AWG (7x32) Stranded TC	18 AWG (16x30) Stranded BC	Plenum PVC, .009", Red & Black	Plenum PVC, Black	CMP	29 lbs/Mft
	AXLink™ Control Cable: Plenum									

Electrical Specifications

Part #	Data Pair				Velocity of Propagation	Power Pair	
	Impedance	Capacitance	Conductor DCR	Drain DCR		Capacitance	Power Conductor DCR
18/22AXL	95 Ω	12.5 pF/ft between conductors	15.3 Ω/Mft	23.8 Ω/Mft	79%	31.7 pF/ft between conductors	6.0 Ω/Mft
18/22AXLP	95 Ω	12.5 pF/ft between conductors	15.3 Ω/Mft	23.8 Ω/Mft	82%	31.7 pF/ft between conductors	6.7 Ω/Mft

Elan Via!

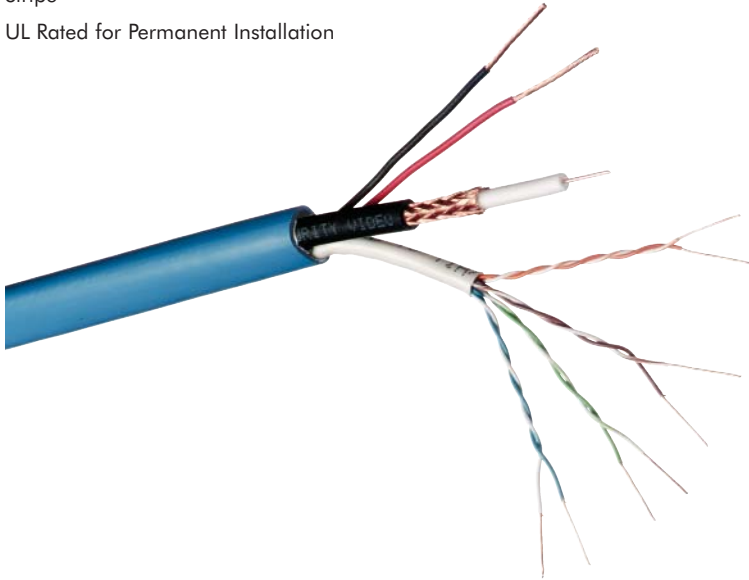
Features & Benefits

- Cat5e+ Element
- RG59 Coax Element
- 18 Gage Power Conductors
- Common Outer Jacket with Color Stripe
- UL Rated for Permanent Installation

Applications

- Elan Via! Touch Panel Systems
- Networking & Automation

Specialized hybrid cable for Elan Via! touch panel systems. The Elan Via! cable consists of a Category 5e+, broadband RG6 coax, and low-loss power elements. Each cable component is tested and verified to ensure precision electrical characteristics and compliance to industry and manufacturer standards. All elements are bundled under an overall PVC jacket for simplified installation.



Mechanical Specifications							
Part #	Cat5E Elements (#, Color)	RG59 Elements (#, Color)	Power Elements (#, Color)	Master Jacket (Type, Color)	Overall Diameter	UL Type	Weight
182R59C5	1, White	1, Black	2x18 AWG (7x26), Stranded BC, Black & Red, 6.4 Ω/Mft	PVC, Blue	.467"	CL3R FT-4	83 lbs/Mft

See CT504/350 (page 84) for detailed Cat5E element specifications.
 Consult factory for detailed RG6Q element specifications (pn#1R201V59).

Touch Panel Control

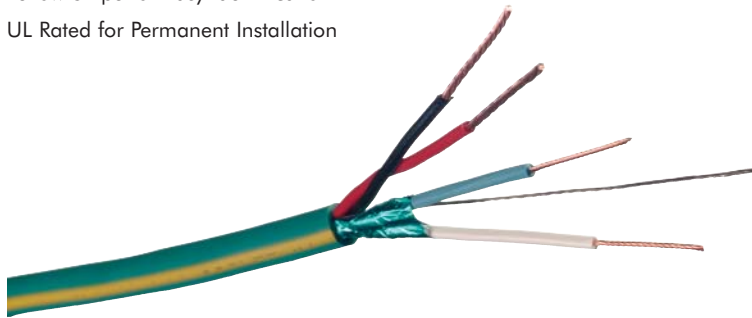
Features & Benefits

22 Gage Low-cap, Shielded Single-pair
 Low-loss Foam Dielectric (Data Pair)
 18 Gage Power Conductors
 Yellow Stripe for Easy Identification
 UL Rated for Permanent Installation

Applications

Touch Panel Control
 Networking & Automation

Touch panel automation cable for automation systems. The cable construction is a hybrid of data and power elements. The data pair is constructed from 22 gage conductors insulated with a data-grade foam PE dielectric that has a low k constant and reduces the high frequency loss of the cable. In addition, the data pairs are shielded with a 100% foil and drain for additional RF/EMI protection and suppression. The power elements consist of larger 18 gage conductors that minimize DC resistance and power loss. UL Rated, Gepco touch panel cables are available in plenum and riser versions.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductor	Data Insulation (Type, OD)	Data Shield & Drain	Power Conductors	Power Insulation	Overall Jacket	UL Type	Approx. Weight
18/22CRT	2 (One Power, One Data)	.242"	22 AWG (7x30) Stranded BC	Foam PE, .022" Blue & White	100% Foil with 24 AWG (7x32) Stranded TC	18 AWG (7x26) Stranded BC	PVC, .010" Red & Black	PVC, Blue with Yellow Stripe	CL3R, FT-4	41 lbs/Mft
	<i>Touch Panel Control Cable</i>									
18/22CRTP	2 (One Power, One Data)	.195"	22 AWG (7x30) Stranded BC	Foam FEP, .020" Blue & White	100% Foil with 24 AWG (7x32) Stranded TC	18 AWG (16x30) Stranded BC	Plenum PVC, .009" Red & Black	Plenum PVC, Blue with Yellow Stripe	CMP	29 lbs/Mft
	<i>Touch Panel Control Cable: Plenum</i>									

Electrical Specifications

Part #	Data Pair		Conductor DCR	Drain DCR	Velocity of Propagation	Power Pair	
	Impedance	Capacitance				Capacitance	Power Conductor DCR
18/22CRT	95 Ω	12.5 pF/ft between conductors	15.3 Ω/Mft	23.8 Ω/Mft	79%	31.7 pF/ft between conductors	6.0 Ω/Mft
18/22CRTP	95 Ω	12.5 pF/ft between conductors	15.3 Ω/Mft	23.8 Ω/Mft	82%	31.7 pF/ft between conductors	6.7 Ω/Mft

Touch Panel Hybrid

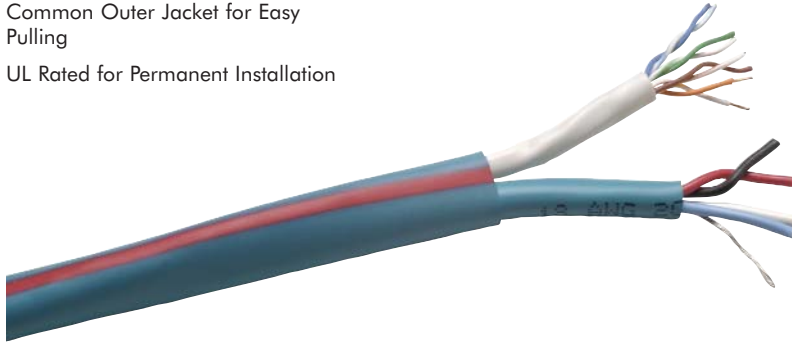
Features & Benefits

- Touch Panel Elements
- Cat5e+ Elements
- RG6 Coax Elements (Optional)
- Common Outer Jacket for Easy Pulling
- UL Rated for Permanent Installation

Applications

- Touch Panel Systems
- Networking & Automation

Hybrid multi-element cable of system-specific touch panel cables and general purpose networking and video cables. The touch panel cable elements have both data and power elements for touch panel stations. The general purpose elements consist of ETL verified Category 5e+ network cable, verified to meet or exceed TIA/EIA-568-B.2 standards, and precision impedance 75Ω RG6 broadband coax. All elements are bundled under an overall PVC jacket with color coded stripe for simplified installation.



Mechanical Specifications							
Part #	Control Elements (#, Color)	Cat5e+ Elements (#, Color)	RG6Q Elements (#, Color)	Master Jacket (Type, Color)	Overall Diameter	UL Type	Weight
18/22CCT	1, Teal with Yellow Stripe	1, White	N/A	PVC, Teal with Red Stripe	.524"	CL3/FT-4	98 lbs/Mft
18/22CCD	1, Teal with Yellow Stripe	2, One White, One Gray	N/A	PVC, Teal with Black Stripe	.547"	CL3/FT-4	130 lbs/Mft
18/22CCQ	1, Teal with Yellow Stripe	4, One White, One Green, One Gray, One Blue	N/A	PVC, Teal with White Stripe	.652"	CL3/FT-4	189 lbs/Mft
18/22CDC	1, Teal with Yellow Stripe	2, One White, One Gray	2 Black & White	PVC, Teal with Orange Stripe	.750"	CL3/FT-4	177 lbs/Mft

See 18/22CRT (page 96) for detailed touch panel control element specifications.
 See CT504/350 (page 84) for detailed Cat5e+ element specifications.
 Consult factory for detailed RG6Q element specifications (pn#181VQ6).

Appendix A: Color Codes

Color Code Chart 1

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 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 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 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

Appendix B: Wire Gage Specifications

AWG	Strand	Approx. O.D.		Circular ML Area	Weight	
		Inches	mm		Lbs/Mft	kg/km
40	Solid	.003	.08	9.61	.030	.04
39	Solid	.004	.09	12.20	.038	.06
38	Solid	.004	.10	15.72	.048	.07
37	Solid	.005	.11	19.83	.061	.09
36	Solid	.005	.13	25.00	.076	.11
36	7/44	.006	.15	28.00	.085	.12
35	Solid	.006	.14	31.52	.095	.14
34	Solid	.006	.16	39.75	.120	.18
34	7/42	.007	.19	43.75	.132	.19
33	Solid	.007	.18	50.13	.152	.23
32	Solid	.008	.20	63.21	.191	.28
32	7/40	.008	.20	67.27	.203	.30
32	19/44	.009	.22	76.00	.230	.34
31	Solid	.009	.23	79.70	.241	.36
30	Solid	.010	.25	100.50	.304	.45
30	7/38	.012	.30	112.00	.339	.50
30	19/42	.012	.30	118.75	.359	.53
29	Solid	.011	.29	126.70	.384	.57
28	Solid	.013	.32	159.80	.484	.72
28	7/36	.015	.38	141.75	.529	.78
28	19/40	.016	.40	182.59	.553	.82
27	Solid	.014	.36	201.50	.610	.91
27	7/35	.018	.45	219.52	.664	.98
26	Solid	.016	.40	253.00	.769	1.14
26	19/38	.020	.50	304.00	.920	1.36
26	7/34	.019	.48	277.83	.841	1.25
25	Solid	.018	.46	320.40	.970	1.44
25	7/33	.021	.53	343.00	1.113	1.66
24	Solid	.020	.51	404.00	1.223	1.82
24	7/32	.024	.60	448.00	1.356	2.01
24	10/34	.023	.58	396.90	1.201	1.78
24	19/36	.024	.60	475.00	1.430	2.12
24	41/40	.023	.58	384.40	1.160	1.72
23	Solid	.023	.57	511.50	1.542	2.29
22	Solid	.025	.64	640.40	1.945	2.89
22	7/30	.030	.76	700.00	2.120	3.15
22	19/34	.031	.78	754.11	2.280	3.39
22	26/36	.030	.76	650.00	1.970	2.93
21	Solid	.029	.72	812.10	2.452	3.65
20	Solid	.032	.81	1,020.0	3.092	4.60
20	7/28	.038	.96	1,111.0	3.490	5.19
20	10/30	.035	.88	1,000.0	3.025	4.50
20	19/32	.037	.93	1,216.0	3.680	5.47
20	26/34	.036	.91	1,031.9	3.120	4.64
20	41/36	.036	.91	1,025.0	3.100	4.61
19	Solid	.040	.91	1,200.0	3.899	5.80
18	Solid	.040	1.02	1,620.0	4.917	7.32
18	7/26	.048	1.21	1,759.60	5.360	7.97
18	16/30	.047	1.19	1,600.0	4.840	7.20

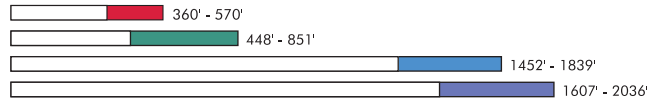
AWG	Strand	Approx. O.D.		Circular ML Area	Weight	
		Inches	mm		Lbs/Mft	kg/km
18	19/30	.049	1.24	1,900.0	5.750	8.55
18	41/34	.047	1.19	1,627.3	4.920	7.32
18	65/36	.047	1.19	1,625.0	4.910	7.30
17	Solid	.045	1.15	2,050.0	6.200	9.23
16	Solid	.051	1.29	2,583.0	7.818	11.63
16	7/24	.060	1.52	2,828.0	8.560	12.73
16	65/34	.059	1.49	2,579.9	7.810	11.62
16	26/30	.059	1.49	2,600.0	7.870	11.71
16	19/29	.058	1.47	2,426.3	7.350	10.93
16	105/36	.059	1.49	2,625.0	7.950	11.83
15	Solid	.057	1.45	3,260.0	9.858	14.67
14	Solid	.064	1.63	4,107.0	12.43	18.50
14	7/22	.073	1.85	4,480.0	13.56	20.17
14	19/27	.073	1.85	3,830.4	11.59	17.24
14	41/30	.073	1.85	4,100.0	12.40	18.45
14	105/34	.073	1.85	4,167.5	12.61	18.76
13	Solid	.072	1.83	5,178.0	15.68	23.33
12	Solid	.081	2.05	6,530.0	19.77	29.42
12	7/20	.096	2.43	7,168.0	21.69	32.27
12	19/25	.093	2.36	6,087.6	18.43	27.42
12	65/30	.095	2.41	6,500.0	19.66	29.25
12	165/34	.095	2.41	6,548.9	19.82	29.49
11	Solid	.091	2.30	8,234.0	24.92	37.08
10	Solid	.102	2.60	10,380.0	31.43	47.77
10	37/26	.115	2.92	9,353.6	28.31	42.12
10	49/27	.116	2.94	9,878.4	29.89	44.47
10	105/30	.116	2.94	10,530.0	31.76	47.26
8	49/25	.147	3.73	15,699.9	47.53	70.72
8	133/29	.147	3.73	16,984.1	51.42	76.51
8	655/36	.147	3.73	16,625.0	49.58	73.78
6	133/27	.184	4.67	26,812.8	81.14	120.74
6	259/30	.184	4.67	25,900.0	78.35	116.59
6	1050/36	.184	4.67	26,250.0	79.47	118.25
4	133/25	.232	5.89	42,613.0	129.01	191.98
4	259/27	.232	5.89	52,214.4	158.02	235.15
4	1666/36	.232	5.89	41,650.0	126.10	187.64
2	133/23	.292	7.41	67,936.4	205.62	305.98
2	259/26	.292	7.41	65,475.2	198.14	294.85
2	665/30	.292	7.41	66,500.0	201.16	299.34
1	817/30	.328	8.33	81,700.0	247.10	367.71
1	2019/34	.328	8.33	83,706.2	253.29	376.92
1/0	133/21	.368	9.34	108,035.9	327.05	486.68
1/0	259/24	.368	9.34	104,636.0	316.76	471.37
2/0	133/20	.414	10.51	136,192.0	412.17	613.35
2/0	259/23	.414	10.51	132,297.2	400.41	595.85
3/0	259/22	.464	11.78	163,195.0	501.70	746.58
3/0	427/24	.464	11.78	172,508.0	522.20	777.08
4/0	259/21	.522	13.25	210,385.7	638.88	950.71
4/0	427/23	.522	13.25	218,111.6	660.01	982.16

Appendix C: 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.

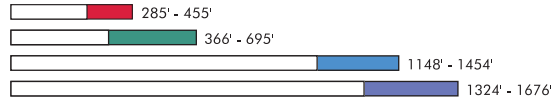
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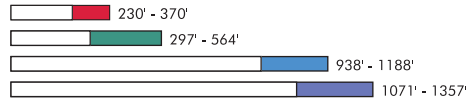
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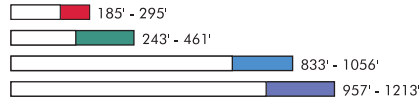
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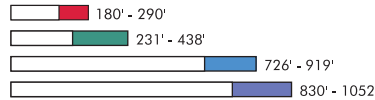
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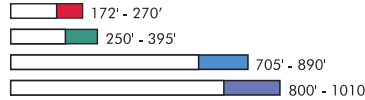
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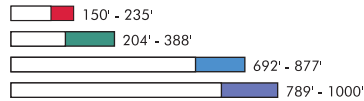
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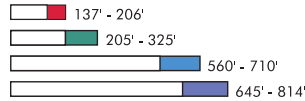
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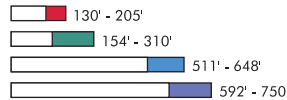
VPM2000TS



VHD2000M



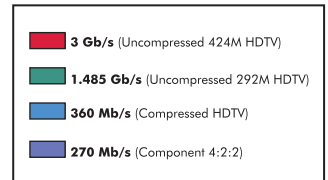
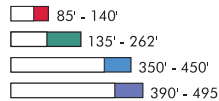
VDM230



VDM250



VDM260



Appendix D: BNC Connector Cross Reference

BNC Connector Cross Reference			
Gepco Part Number	Kings	ADC	Gepco
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 (Nonplenum)	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, VHD1100PEF	2065-8-9	BNC-25	N/A
VHD1100TK	2065-8-9	BNC-25	N/A
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 D: RCA Connector Cross Reference

RCA Connector Cross Reference			
Geppo 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 (Nonplenum)	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, VHD1100TK, 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

Appendix D: F-type Connector Cross Reference

F Connector Reference Chart			
Geppo 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 (Nonplenum)	25-7030	FP-C4F	CF-1
VC2095TS	25-7049	N/A	N/A
VB1860/VB1890	25-7032	FP-C53	CF-8
VB1890TS	25-7047	FP-C55	N/A
VB18Q	25-7034	N/A	N/A
VB18QTS	25-7047	N/A	N/A
VC1895	25-7032	FP-C53	CF-8
VC1895TS	25-7047	FP-C55	N/A
VB1460/VB1490TK	25-7190	FP-C71	N/A

Appendix D: ICM Compression Connector Cross Reference

ICM Compression Connector Reference Chart						
Cable Type	BNC		RCA		F-type	
	Silver Plated	Gold Plated	Silver Plated	Gold Plated	Silver Plated	Gold Plated
RG59 Coax	FS59BNCU	RG59BNCU	FS59RCAU	RG59RCAU	FS59U	RG59U
VPM2000						
VB2095						
VC2095						
RG6 Coax	FS6BNCU	RG6BNCU	FS6RCAU	RG6RCAU	FS6U	RG6U
VSD2001						
VB1860/90						
VC1895						
RG11 Coax	FS11BNC	-----	-----	-----	-----	-----
VHD1100						
VHD1100TK						
VB1460						
VC1490TK						
Miniature 23AWG Solid	FSBNC15RGB or FS15BNC (One Piece)	RGBNC15RGB or RG15BNC (One Piece)	FSRCA15RGB or FS15RCA (One Piece)	RGRCA15RGB or RG15RCA (One Piece)	-----	-----
VMD230						
VS230 Series						
RGB6C5						
RGB6C52						
Miniature 25AWG Stranded	FSBNC15RGB	RGBNC15RGB	FSRCA15RGB	RGRCA15RGB	-----	-----
RGB250 Series						
VDM250						
Miniature 25AWG Solid	FSBNC1RGB or FS15BNC (One Piece)	RGBNC1RGB or RG15BNC (One Piece)	FSRCA1RGB or FS15RCA (One Piece)	RGRCA1RGB or RG15RCA (One Piece)	-----	-----
RGB250S Series						
Miniature 26AWG Stranded	FSBNC1RGB	RGBNC1RGB	FSRCA1RGB	RGRCA1RGB	-----	-----
RGBSC260TS						
RGB62TS						
RGB644TS						
Miniature 26AWG Solid	FSBNC1RGB or FS1BNC (One Piece)	RGBNC1RGB or RG1BNC (One Piece)	FSRCA1RGB or FS1RCA (One Piece)	RGRCA1RGB or RG1RCA (One Piece)	-----	-----
RGB62						
RGB644						
VDM260						

Appendix D: Camera Cable Connector Cross Reference

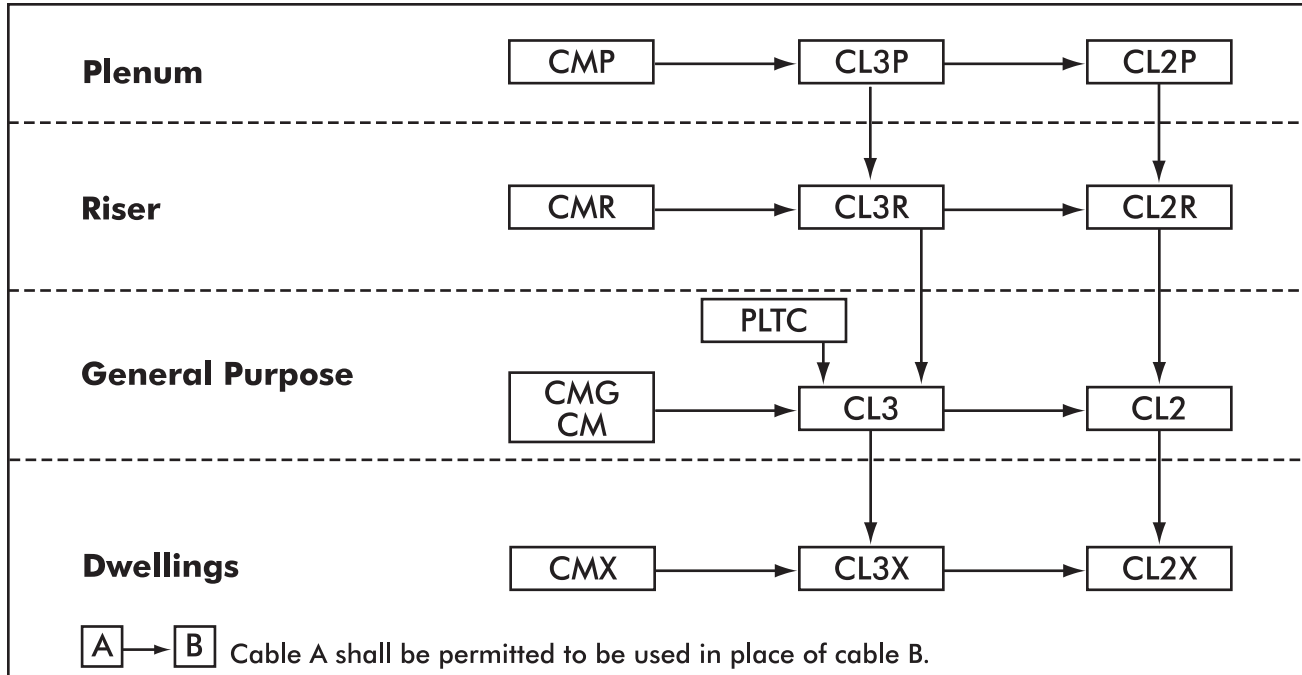
Triax Connector Reference Chart											
Gepco Part Number	Kings Part Numbers						ADC Part Numbers				
	Male Tri-Loc® Cable Mount	Female Tri-Loc® Cable Mount	Male Tri-Loc® Panel Mount	Female Tri-Loc® Panel Mount	Female Tri-Loc® Panel Mount (rear mount)	Die	Tool	Male ProAx Cable Mount	Female ProAx 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	N/A	N/A	N/A	N/A
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						
	Cable Mount		Panel Mount			Fiber Contacts	
	Plug	Socket	Plug	Socket	Socket (Round)	Plug	Socket
HDC920, HDC920R, HDC160	FUW.3K.93C.TLMC96	PUW.3K.93C.TLCC96	FMW.3K.93C.TLMC96Z	PBW.3K.93C.TLCC96Z	PEW.3K.93C.TLCC96Z	PSS.F2.BB2.LCE30	FFS.F2.BB2.LCE30
HDC120P	FUW.3K.93C.TLMC12	PUW.3K.93C.TLCC12	-----	-----	-----	PSS.F2.BB2.LCE30	FFS.F2.BB2.LCE30

Canare Hybrid Fiber Connector Reference Chart				
Gepco Part Number	Canare Part Numbers			
	Cable Mount		Panel Mount	
	Plug	Socket	Plug	Socket
HDC920, HDC920R	FCF	FCM	FCFRC	FCMRC

Appendix E: NEC Cable Substitution Hierarchy



Cable Uses and Permitted Substitutions

Cable Type	Use	Permitted Substitutions
CMP	Communications plenum cable	MPP
CL3P	Class 3 plenum cable	CMP
CL2P	Class 2 plenum cable	CMP, CL3P
CMR	Communications riser cable	*CMP, MPP, MPR
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, MPP, MPR, MPG, MP
CM	Communications cable, general purpose	*CMP, CMR, CMG, MPP, MPR, MPG, MP
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, MPP, MPR, MPG, MP
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 taken from Articles 800 and 725 of the 2008 National Electrical Code. Please consult these articles for details regarding specific applications.

Glossary

Alum—Aluminum.

Alum/Polyester Tape—Conductive aluminum foil bonded to a non-conductive polyester tape. Provides for improved flexlife 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 Gage. 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" Teflon (fluorinated ethylene-propylene) consisting of individual closed cells of inert gas suspended in a Teflon 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 sig-

nals from one circuit being coupled into adjacent 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®—Solid Teflon (fluorinated ethylene-propylene) Registered Trademark, Dupont Co.—A fluorocarbon extrudable resin with good electrical insulating properties and chemical and heat resistance.

Flex-life—The measurement of the ability of a conductor or cable to withstand repeated bending.

ft—Feet.

GEP-FLEX—Gepco TPE jacket compound that is extra-flexible, durable, and UL Listed. Remains flexible in high/low temperature environments.

Halar®—Registered trademark, Ausimon Corp.

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—DuPont trade name 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.

Pro-Ax™—Trademark of ADC Telecommunications. 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. 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.

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