Audio Video Cable Product Guide

Welcome to the Gepco G-8 full-line catalog. For more than two decades, Gepco has been committed to providing its customers with the best wire and cable solutions for the most demanding applications. And now, with an even more comprehensive line of wiring products, our capabilities and depth of resources make your job easier - one call to one source for all your cabling needs.

Gepco's attention to detail and successful track record of manufacturing high-quality wire and cable sets us apart from other companies. This reputation, combined with Gepco's tradition of providing value-added services like reliable sales consulting and expert technical support result in a company that you can **TRUST** and **DEPEND** on.

Our ability to provide custom lengths means less waste, which translates into greater savings and efficiencies added to your bottom line. When it comes to quality, our focus on compliance with specifications ensures the highest performance and reliability possible. Customization, performance and reliability are just some of the reasons why consultants, system integrators, and engineers choose Gepco over the competition.

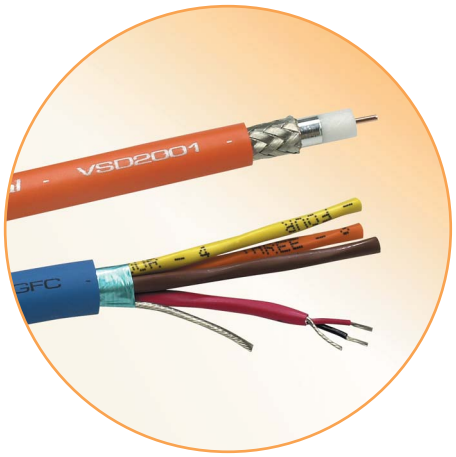
Today's wire and cable needs are extremely diverse and finding the right products to match specific technologies can be a real challenge. Representing the complete line of Gepco products, this catalog is the resource you need to assist you in selecting the right cable for your requirements. Each section is organized in an easy-to-read format that allows for product types and applications to be easily identified and compared.

To contact a Gepco sales professional, call 800-966-0069 or visit us on the Web at www.gepco.com. We look forward to hearing from you soon.

COMPLETE AUDIO & VIDEO CABLE SOLUTIONS

- Innovative Cable Designs
- Cable Cut to Customer Length Requirements
- Standard & Custom Manufactured Cable Assemblies

GEPCO INTERNATIONAL, INC.



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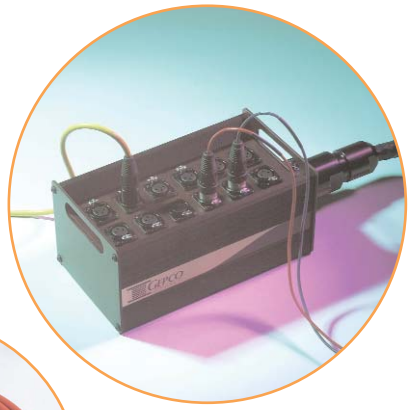

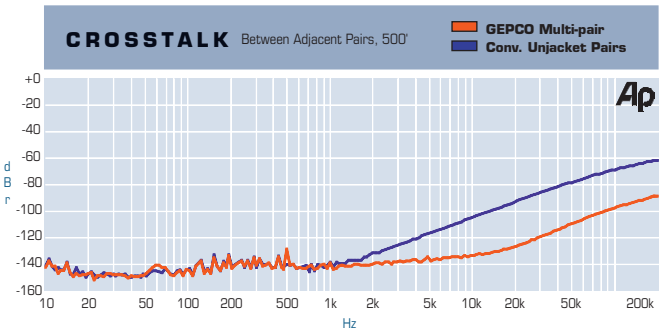

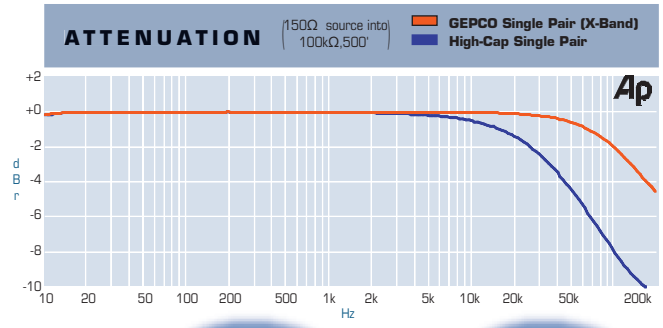

Low Noise Through Precision Balancing & Comprehensive Shielding

To maximize EMI and high-frequency RF rejection, Gepco audio cables feature precision conductor-pair-twisting and balancing combined with a durable braid or a quick-terminating foil/Mylar™ shield with drain wire.

Gepco's method of uniform tight-twisting and balancing of each pair is crucial in achieving exceptional common-mode noise cancellation, while the 95% — 100% shield offers additional protection from external interference. These combined elements reduce the presence of unwanted hum and noise in the audio signal, thereby improving the sonic transparency of the signal chain.

Noise from crosstalk in multi-pair cables is also substantially reduced through the inclusion of pair jackets in most all non-plenum Gepco multi-pair cable series.

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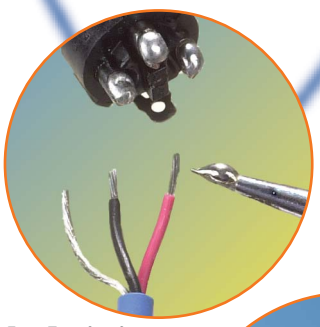
ANALOG

Easy To Terminate

The design of each cable has been optimized to simplify the connector termination process. Depending upon product type and application, termination ease is achieved through the inclusion of drain wires for quick shield connection, bonded foils that are removed with the jacket, color coded and alphanumeric-printed pair jackets, low-wickback dielectrics, tinned and optimally stranded conductors, low-friction outer surfaces, and jacket and insulation compounds that are easy to score and strip.

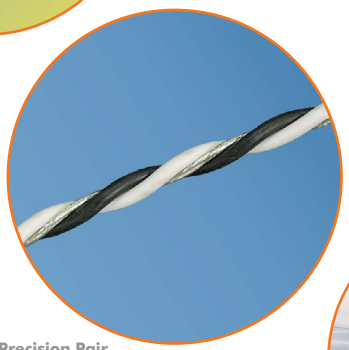


Easy Termination Designs

Premium Copper, Dielectric Materials & Jacketing Compounds

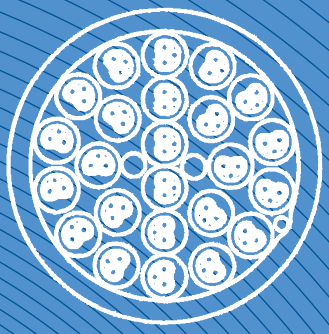
All Gepco audio cable utilizes annealed, oxygen-free, bare or tinned copper conductors for high conductivity, purity and protection against oxidization.

For the dielectric, electrically and mechanically superior insulation materials such as polyethylene, foam polypropylene or Halar™ are used. These materials have lower dielectric constants and higher melt-temperatures that minimize cable attentuation and reduce insulation shrink-back when soldering. The jacket compounds utilized for each product series are specified from a diverse group of proprietary and custom-formulated compounds. Each offers a combination of physical attributes such as flexibility, durability or flame retardancy to maximize the cable's performance.



Precision Pair Twisting & Balancing

High Purity Copper & Proprietary Compounds



Multi-pair and single-pair analog audio cables are Gepco's signature products and provide the foundation on which the company was built. The first Gepco analog audio cable was developed out of a recognition that there was no single product addressing engineers and installers' needs in terms of low noise, sonic transparency, ease of installation, flexibility, and durability.

Building upon these core products, Gepco has expanded the analog audio product line to offer a full range including microphone, speaker, and the new X-Band series of audio twisted-pair cables. Keeping with Gepco's innovative past, use of custom-formulated compounds, high purity copper, and precision manufacturing processes continues to achieve Gepco's high standards of design and performance. As a result, key cable characteristics like noise rejection, flexibility, and durability remain primary characteristics in all Gepco analog cables.

AUDIO CABLE

In This Section:

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 alphanumerically 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 twenty-two 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 (type, wall thick)/ Color Code	Pair Shield	Pair Drain	Pair Jacket/ Color Code	Overall Shield	Overall Common Drain	Master Jacket	UL Type
22 AWG (7x30) Stranded TC	PE, .010"/ Red & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC/Base 10 (See Color Code Chart 1, Page 94)	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

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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

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 (type, wall thick)/ Color Code	Pair Shield	Pair Drain	Pair Jacket/ Color Code	Overall Shield	Overall Common Drain	Master Jacket	UL Type
24 AWG (7x32) Stranded TC	PE, .008"/ Red & Black	100% Foil (Bonded)	24 AWG (7x32) Stranded TC	PVC/Base 10 (See Color Code Chart 1, Page 94)	100% Foil	20 AWG (19x32) Stranded TC	Gep-Flex TPE, Black	CM

Mechanial 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: X-Band

Features & Benefits

- Ultra-flexible
- Oxygen-free, Finely Stranded Conductors
- High Bandwidth Dielectric
- Braid 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 cross-talk is achieved though 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 alpha-numeric print and color coded stripe, yet maintain a more neutral cosmetic appearance in a high visibility installations.

Mechanical Specifications (Series)

Conductors	Insulation (type, wall thick)/ Color Code	Pair Shield	Pair Drain	Pair Jacket (type, outer diameter)/ Color Code	Master Jacket
24 AWG (40x40) Stranded Oxygen-free Bare Copper	Foam Polypropylene, .012"/ 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

Mechanial 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

X-BAND

Multi-pair: Plenum

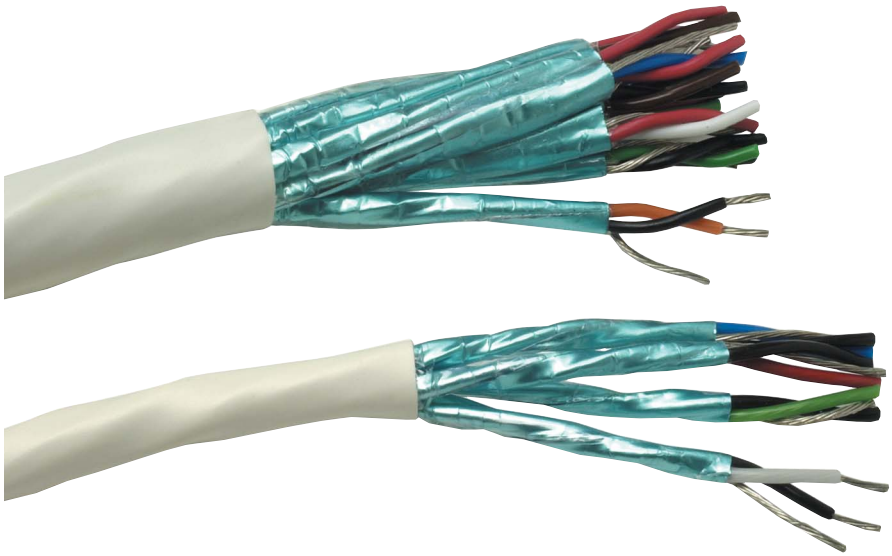
Features & Benefits

- 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 non-plenum 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 easy to strip than other hi-temp plenum compounds.



Mechanical Specifications (Series)

Conductors	Insulation (type, wall thick)	Insulation Color Code	Pair Shield	Pair Drain	Master Jacket	UL Type
22 AWG (7x30) Stranded TC	Halar, .010"	Varies for Each Pair, See Color Code Chart 2, Page 94	100% Foil, Mylar Side Out (Pairs Are Isolated)	22 AWG (7x30) Stranded TC	Plenum PVC, White	CMP

Mechanial 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

Multi-pair: Heavy-duty Twelve-channel

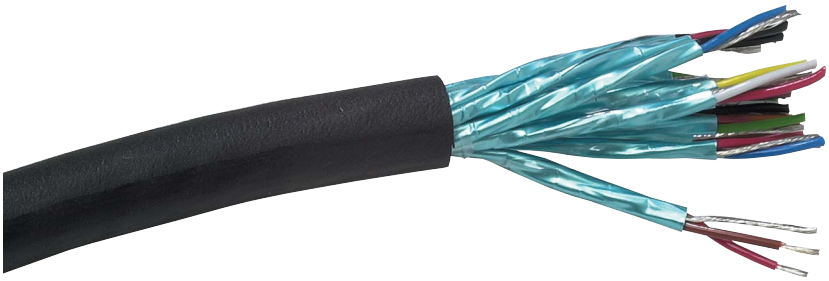
Features & Benefits

- 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 (type, wall thick)	Color Code	Pair Shield	Pair Drain	Master Jacket	Approx. Weight
DT61812	12	.505"	22 AWG (19x34) Stranded TC	PE, .010"	Varies for Each Pair, See Color Code Chart 2, Page 94	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

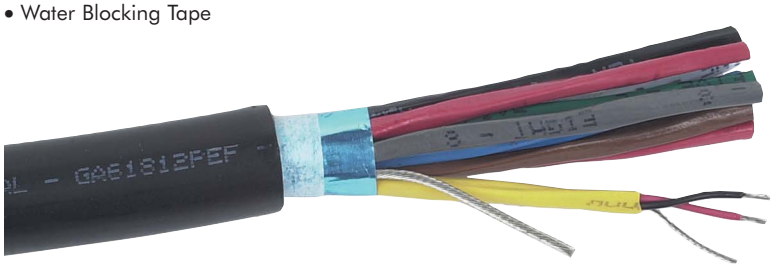
Features & Benefits

- 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 (type, wall thick)/ Color Code	Pair Shield	Pair Drain	Pair Jacket/ Color Code	Overall Shield	Overall Common Drain	Master Jacket
22 AWG (7x30) Stranded TC	PE, .010"/ Red & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC/Base 10 (See Color Code Chart 1, Page 94)	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

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Single & Dual-pair: 22 Gage

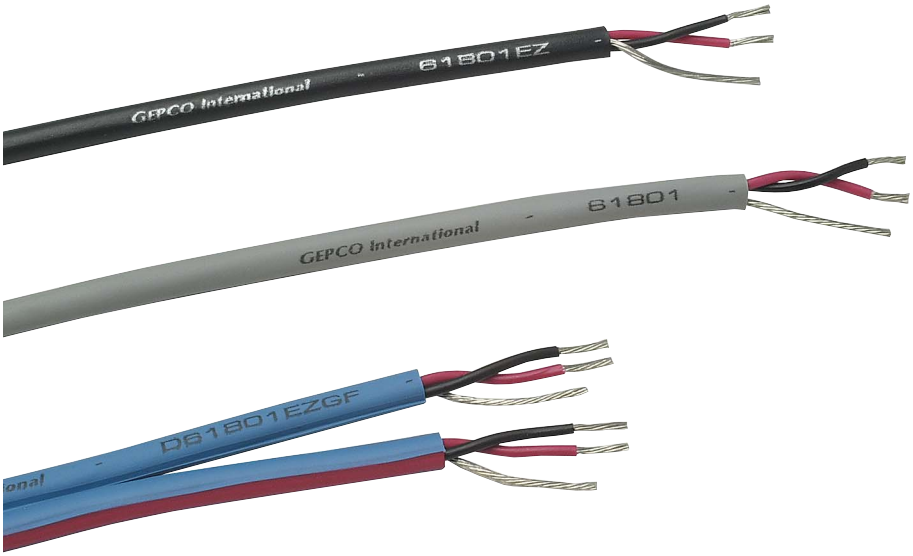
Features & Benefits

- Low Attenuation
- Low Crosstalk (Dual-pair)
- Easy to Terminate
- Polyethylene, Teflon, 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 (type, wall thick)/Color Code	Shield	Jacket	Jacket Colors	UL Type	Approx. Weight
61801	1	.140"	PE, .010"/Red & Black	100% Foil	PVC	Black or Gray	CMR	13 lbs/Mft
	Standard Single-pair							
61801EZ	1	.138"	PE, .008"/Red & Black	100% Foil (Bonded)	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	15 lbs/Mft
	Standard Single-pair: Easy Strip							
D61801EZGF	2	.140" x .290"	PE, .008"/Red & Black	100% Foil (Bonded)	Riser Gep-Flex TPE	Blue with Red Stripe	CMR	27 lbs/Mft
	Flexible Dual-pair: Easy Strip							
61801HS	1	.134"	Halar, .010"/Red & Black	100% Foil	Plenum PVC	White	CMP 75°C	13 lbs/Mft
	Plenum Single-pair							
61801TK	1	.145"	FEP, .010"/Red & Black	100% Foil	PVDF	White	CMP 125°C	18 lbs/Mft
	Plenum Single-pair: High-temp							
61801CEZ	½ (1 conductor)	.115"	PE, .008"/Red	100% Foil (Bonded)	PVC	Gray	CMR	10 lbs/Mft
	Unbalanced, Shielded One-conductor							

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
61801TK	24 pF/ft between conductors, 44 pF/ft between one conductor and other tied to shield	15.3 Ω/Mft	15.3 Ω/Mft
61801CEZ	61 pF/ft between conductor and 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 (type, wall thick)/Color Code	Shield	Jacket	Jacket Colors	UL Type	Approx. Weight
72401EZ	1	.138"	PE, .008"/Red & Black	100% Foil (Bonded)	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CM	15 lbs/Mft
	Thin Profile Single-pair: Easy Strip							
D72401EZGF	2	.140" x .290"	PE, .008"/Red & Black	100% Foil (Bonded)	Gep-Flex TPE	Black with Red Stripe	CM	27 lbs/Mft
	Thin Profile Dual-pair: Extra-flexible & Easy Strip							

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

X-Band Single-pair

Features & Benefits

- Ultra-flexible
- Oxygen-free, Finely Stranded Conductors
- High Bandwidth Dielectric
- Braid Shield with Drain Wire
- Superior Noise Rejection
- Easy to Terminate

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 though tight and precision pair twisting with a durable 95% braid shield. 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.

Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation (type, wall thick)/ Color Code	Shield	Drain Wire	Jacket	Approx. Weight
XB401	1	.145"	24 AWG (40x40) Stranded Oxygen-free BC	Foam Polypropylene, .012"/ One White,One Black	95% TC Braid	24 AWG (41x40) Stranded TC	Flexible Matte PVC	15 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

X-BAND

Microphone Cable: Heavy Duty

Features & Benefits

- Durable & Rugged
- Extra-low Attenuation
- Flexible
- Heavy Gage Conductors
- Polyethylene Dielectric
- Full Copper Braid Shield
- Drain Wire for Quick Shield Terminatioin
- 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-angle, full-coverage braid, thick insulation wall, and large twenty 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 (type, wall thick)/ Color Code	Shield	Drain Wire	Jacket (type, colors)	Approx. Weight
M1042	1	.255"	20 AWG (26x34) Stranded TC	PE, .020"/ 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 Cable: High Bandwidth

Features & Benefits

- Extended Bandwidth
- Durable & Rugged
- Extra-low Attenuation
- Low Capacitance
- Flexible
- Polyethylene Dielectric
- Full Copper Braid Shield
- Drain Wire for Quick Shield Terminatioin
- Matte PVC Flexible Master Jacket

Applications

- Microphone or Line Level Balanced Analog Audio
- Portable Microphone Cables
- Critical Studio Recording
- Ideal for Extended Distance Runs

Extended bandwidth microphone cable for critical studio or location recording. Through low DC resistance, low mutual capacitance, and precision pair twisting, 5522M achieves exceptional sonic transparency and low noise. Extra-flexible matte PVC jacket and tight-angle braid provide excellent noise rejection, flex-life, and flexibility.

Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation (type, wall thick)/ Color Code	Shield	Drain Wire	Jacket (type, colors)	Approx. Weight
5522M	1	.272"	22 AWG (19x34) Stranded TC	PE, .030"/ White & Black	95% TC Braid	22 AWG (7x30) Stranded TC	Flexible Matte PVC, Black	50 lbs/Mft

Electrical Specifications

Impedance	Capacitance	Cond. DCR	Drain DCR
95 Ω	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: Quad Star

Features & Benefits

- Improved Noise & Hum Rejection
- Extra-flexible
- Increased Flex-life
- Polyethylene Dielectric
- Full Copper Braid Shield
- Drain Wire for Quick Shield Terminatioin (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-angle, 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 (type, wall thick)/ Color Code	Shield	Drain Wire	Jacket	Jacket Colors	Aprox. Weight
MP1201	4	.240"	24 AWG (41x40) Stranded BC	PE, .013"/ White & Black, Red & Blue	95% TC Braid	24 AWG (41x40) Stranded TC	Flexible Matte PVC	Black, Red, Yellow, Green, Blue, Gray	38 lbs/Mft
	Standard Quad Star								
MM1024	4	.193"	26 AWG (30x40) Stranded TC	PE, .012"/ White & Black, Red & Blue	95% TC Braid	None	Flexible Matte PVC	Black (other colors may also be available)	26 lbs/Mft
	Thin Profile Quad Star								

Electrical Specifications

Part #	Capacitance	Cond. DCR	Drain DCR
MP1201	39 pF/ft between conductors, 57 pF/ft between one conductor and other tied to shield	25.6 Ω/Mft	25.6 Ω/Mft
MM1024	32 pF/ft between conductors, 54 pF/ft between one conductor and other tied to shield	34.4 Ω/Mft	----------

Microphone Cable: Thin Profile

Features & Benefits

- Thin Profile
- Light Weight
- Low Attenuation
- Extra-flexible
- Polyethylene Dielectric
- Full Copper Braid Shield
- Drain Wire for Quick Shield Terminatioin
- 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-angle 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 (type, wall thick)/ Color Code	Shield	Drain Wire	Jacket	Jacket Colors	Approx. Weight
MP1022	1	.194"	24 AWG (41x40) Stranded TC	PE, .013"/ White & Black	95% TC Braid	22 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

The definitive guitar or instrument unbalanced cable. Extremely low capacitance and low-loss stranded conductor minimize cable attenuation and transient loss. A full-coverage copper braid shield and noise reducing PVC tape achieve excellent noise rejection, durability, and minimal handling noise. Matte PVC master jacket is both flexible and rugged.

Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductors	Insulation (type, wall thick)	Shield	Jacket (type, colors)	Approx. Weight
GLC20	1	.265"	20 AWG (41x36) Stranded TC	PE, .040"	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

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Speaker Cable: 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

Ultra low-loss speaker cable in an extra-flexible and convenient zip-cord construction. Densely stranded, oxygen-free conductors minimize series resistance and maximize the dampening ability of the amplifier to speaker. Ideal for high-end audio playback systems and studio control room monitoring applications.

Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductors	Insulation (type, wall thick)	Conductor Identification	Approx. Weight
GSC102OFC	2	.225" x .455"	10 AWG (423x36) Stranded Oxygen-free BC	Transparent PVC, .048"	One Leg Legend, One Leg Plain	88 lbs/Mft
GSC122OFC	2	.182" x .370"	12 AWG (259x36) Stranded Oxygen-free BC	Transparent PVC, .040"	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 Cable: Standard Dual-zip

Features & Benefits

- Economic Design
- Low Loss
- Heavy Gage Conductors
- Convenient Zip Construction
- Standard PVC Jacket

Applications

- Speaker to Amplifier Interconnect

Standard zip-cord style speaker cable for general purpose use. The LM122 features twelve gage conductors for low DC resistance and a convenient zip-cord construction that is easy to terminate. Positive leg has both print and an extruded flat for easy polarity identification.

Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductors	Insulation (type, wall thick)	Conductor Identification	Approx. Weight
LM122	2	.175" x .360"	12 AWG (65x30) Stranded BC	Gray TPE, .035"	One Leg Legend, One Leg Plain	63 lbs/Mft

Electrical Specifications

Cond. DCR
1.7 Ω/Mft

Speaker Cable: Portable Multi-conductor

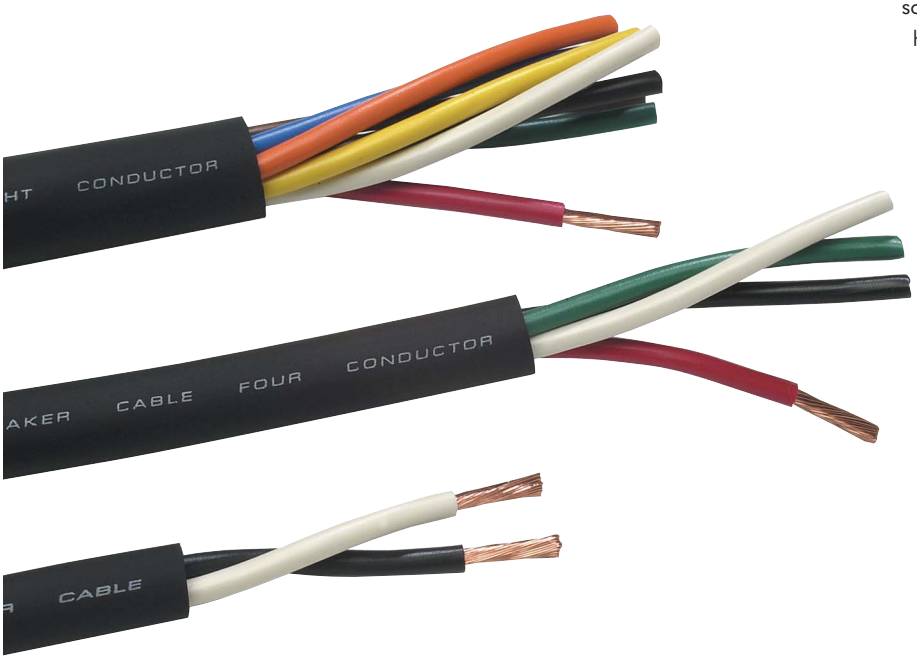
Features & Benefits

- 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 Speak-On® Connectors

Multi-conductor, low-loss speaker cable in a flexible and portable round construction. The densely stranded thirteen 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 temperature, the all-weather TPE jacket makes this series well suited for sound reinforcement applications or use in hostile environments. Ideal for termination with Neutrik Speak-On 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

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Speaker Cable: Permanent Installation

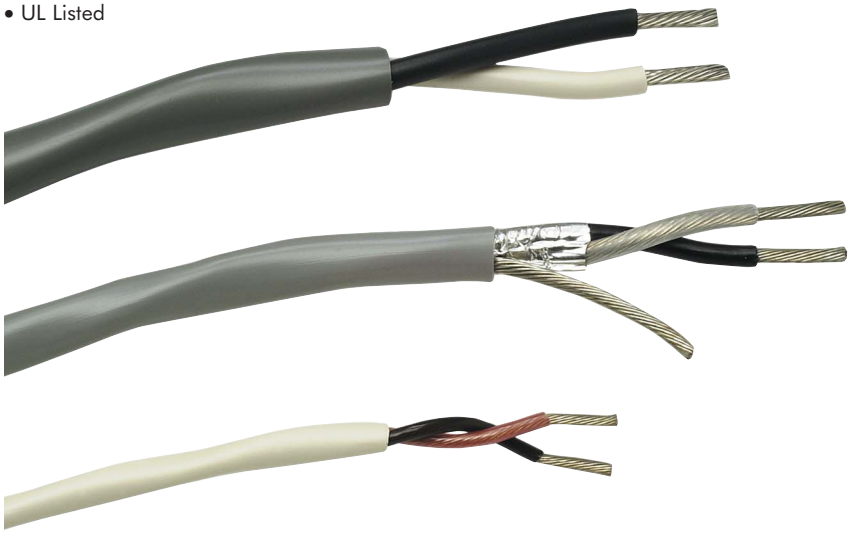
Features & Benefits

- Easy to Install
- Cost Effecitve
- Multiple Gage Sizes Available
- UL Listed

Applications

- Speaker Level Analog Audio
- Permanent Installation

Conventional type speaker cable for permanent installation in conduit or ceilings. Available in multiple gages and construction types to accommodate a wide range of performance requirements. Easy to strip and pull through conduit, this series is UL rated and available in both shielded or unshielded versions.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductor	Insulation (type, wall thick)/ Color Code	Shield	Drain Wire	Jacket (type, colors)	UL Type	Approx. Weight
1200	1	.384"	12 AWG (19x25) Stranded TC	PVC, .031"/ White & Black	-----	-----	PVC, Gray	PLTC	89 lbs/Mft
	Twelve Gage								
1200HS	1	.270"	12 AWG (65x30) Stranded TC	Halar, .008"/ Red & Black	-----	-----	Plenum PVC, White	CL3P	87 lbs/Mft
	Twelve Gage: Plenum								
1400	1	.336"	14 AWG (19x27) Stranded TC	PVC, .031"/ White & Black	-----	-----	PVC, Gray	PLTC	66 lbs/Mft
	Fourteen Gage								
1400HS	1	.215"	14 AWG (41x30) Stranded TC	Halar, .008"/ Red & Black	-----	-----	Plenum PVC, White	CL2P	64 lbs/Mft
	Fourteen Gage: Plenum								
1600	1	.254"	16 AWG (19x29) Stranded TC	PVC, .016"/ White & Black	-----	-----	PVC, Gray	PLTC	43 lbs/Mft
	Sixteen Gage								
1600S	1	.287"	16 AWG (19x29) Stranded TC	PE, .032"/ Clear & Black	100% Foil	18 AWG (16x30) Stranded TC	PVC, Gray	CM	52 lbs/Mft
	Sixteen Gage: Shielded								
1600HS	1	.180"	16 AWG (19x29) Stranded TC	Halar, .008"/ Red & Black	-----	-----	Plenum PVC, White	CMP	39 lbs/Mft
	Sixteen Gage: Plenum								
1800	1	.224"	18 AWG (7x26) Stranded TC	PVC, .016"/ White & Black	-----	-----	PVC, Gray	CM	31 lbs/Mft
	Eighteen Gage								
1800S	1	.214"	18 AWG (16x30) Stranded TC	PE, .018"/ Clear & Black	100% Foil	18 AWG (16x30) Stranded TC	PVC, Gray	CM	32 lbs/Mft
	Eighteen Gage: Shielded								
1800HS	1	.160"	18 AWG (16x30) Stranded TC	Halar, .007"/ Red & Black	-----	-----	Plenum PVC, White	CMP	28 lbs/Mft
	Eighteen Gage: Plenum								

Electrical Specifications

Part #	Cond. DCR	Drain 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	-----
1600S	4.5 Ω/Mft	6.7 Ω/Mft
1600HS	4.5 Ω/Mft	-----
1800	6.0 Ω/Mft	-----
1800S	6.7 Ω/Mft	10.5 Ω/Mft
1800HS	6.7 Ω/Mft	-----

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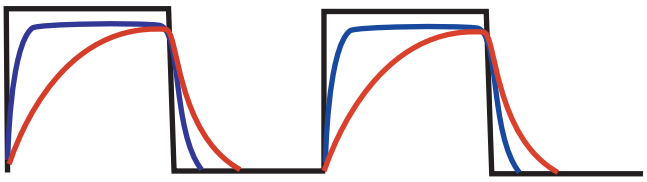
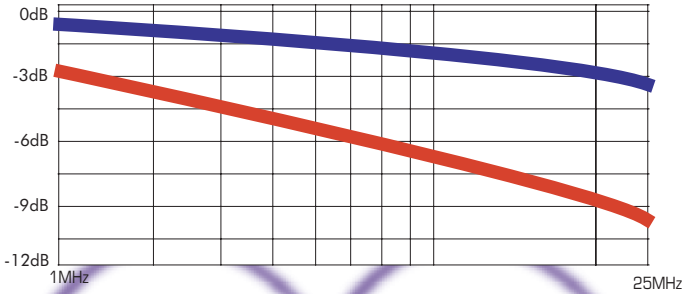
PULSE ROUNDING OF DATA BITS



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

HIGH FREQUENCY CABLE ATTENNUATION (100')



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

Reduced High-Frequency Attenuation

In a digital audio signal, each sample consists of a 32-bit word that is transmitted over the cable interconnect as a series of rapid square wave pulses. With excessive attenuation, the leading edge of each pulse becomes "rounded" to the point where the bit can no longer be recognized as "on" or "off." Because of this, minimizing pulse-rounding in digital-audio data cable is critical and requires a bandwidth of 128 times the audio sample rate (e.g. 6.14MHz for 48kHz stereo sample rates).

By lowering the capacitance of the cable, the data pulse is significantly less rounded, thereby enabling longer runs and more accurate data transmission. To achieve this, Gepco AES/EBU digital audio cable features either gas-injected foam polyethylene, hard-cell foam polypropylene or a foam FEP dielectric. All three compounds have a low k constant that reduces the capacitance and high-frequency absorption of the insulation. In addition, the physical hardness and melt temperature of these compounds are greater, thereby minimizing the occurrence of accidental nicking and insulation wick-back when soldering. These attributes make the insulation not only electrically superior, but also easier to prep and terminate.

DIGITAL

Effective Shielding

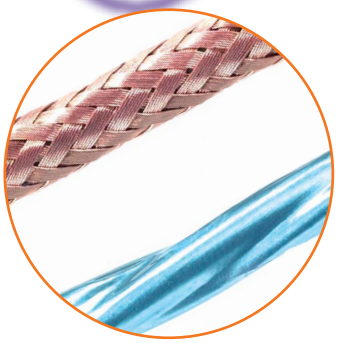
The digital series features highly effective braid, foil, or serve shields, in addition to the common-mode rejection of the balanced pair, that offer protection from EMI & RF interference that can cause corruption to the data bits or clocking instability.

Precision Impedance

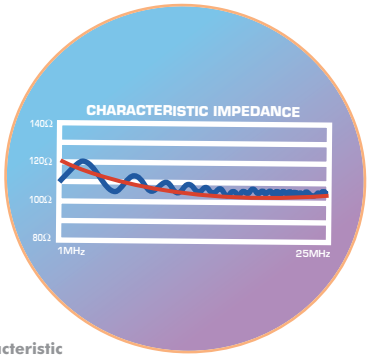
A 110Ω impedance-matched interconnect system in high data-rate, digital audio applications is also critical in order to minimize the occurrence of standing waves within the cable. Standing wave line reflections, also known as return loss, can cause both bit-errors and jitter in the data stream and lead to drop outs or degradation in the audio signal.

Gepco AES/EBU twisted-pair cable is constructed to an exacting and stable 110Ω nominal characteristic impedance. This is achieved by using a proportionate amount of low k constant, foam dielectric material and special non-conductive PE filler rods. In addition, the PE filler rods maintain the geometrical configuration of the core when the cable is bent or flexed, thus preserving the 110Ω characteristic impedance.

$$\text{Impedance}(\Omega) = \frac{276}{\sqrt{\varepsilon}} \text{Log}\left[\frac{1.2D}{d}\right]$$



Shield Types



110Ω Characteristic Impedance

As digital audio sampling rates, converter quality, and channel densities increase, recording engineers and technicians continue to demand a higher level of audio performance. Key factors that degrade audio quality, like bit-errors and jitter, must be minimized in the cable interconnect system. As a result, Gepco has continued to expand and develop digital audio cable products with lower loss and precision impedance in a greater number of multi-pair and single-pair options.

Gepco digital audio cable products include both 110Ω, twisted-pair (for AES3 format digital audio) and 75Ω coax (for Word Clock, SPDIF, AES3id, and MADI formats). Like other Gepco cable types, Gepco digital audio cable employs many proprietary thermoplastic jacketing and insulation compounds that provide unique electrical and mechanical characteristics. In addition, all Gepco twisted-pair products are now characterized up to 25MHz for 192kHz transmission, optimizing them for use in today's High Definition digital converters and signal processors.

AUDIO CABLE

In This Section:

Wide Bandwidth/Extended Distance Multi-pair
Thin Profile Multi-pair
Wide Bandwidth/Extended Distance Single & Dual-pair
Thin Profile Single & Dual-pair
SPDIF
Word Clock & 75Ω AES/EBU Coax

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Wide Bandwidth/Extended Distance Multi-pair

Features & Benefits

- Extra-Low Attenuation
- Low Crosstalk
- Precision 110Ω Impedance
- 25MHz Bandwidth for 192kHz Sampling Rates
- Flexible
- Easy to Terminate
- 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 Higher Sampling Rates or Extended Distance Runs

Extra low-loss 110Ω AES/EBU wide bandwidth digital audio multi-pair cable. The 5596GFC 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 5596GFC series allows for longer runs of AES3 format digital audio over twisted-pair cable. The extended 25MHz bandwidth is compliant with the 1999 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 cross-talk, 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/ Color Code	Overall Shield	Overall Common Drain	Master Jacket	UL Type
24 AWG (7x32) Oxygen-free Stranded BC	Gas-injected Foam PE/ White & Violet	100% Foil (Bonded)	24 AWG (7x32) Stranded TC	PVC/ Base 10	100% Foil	16 AWG (19x29) Stranded TC	Riser Gep-Flex TPE, Violet	CMR

Mechanical Specifications (Individual)

Part Number	# of Pairs	Nominal OD	Approx. Weight
559604GFC	4	.620"	125 lbs/Mft
559608GFC	8	.815"	260 lbs/Mft
559612GFC	12	.995"	380 lbs/Mft

Electrical Specifications

Impedance	Capacitance	Cond. DCR	Drain DCR	Overall Common Drain	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	23.8 Ω/Mft	4.5 Ω/Mft	.090	1.30	1.70	2.50	4.10

Thin Profile Multi-pair

Features & Benefits

- Thin Profile
- Low Attenuation & Capacitance
- Low Crosstalk
- Precision 110Ω Impedance
- 25MHz Bandwidth for 192kHz Sampling Rates
- Flexible
- Easy to Terminate
- High-velocity 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 5526GFC series of AES/EBU digital audio multi-pair features low attenuation, mechanical stability, and a precision 110Ω impedance. Color coded and alphanumerically printed pairs facilitate easy channel identification and minimize crosstalk, while the new 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 5526GFC series is ideal for applications such as rack wiring, portable snakes, multi-pin breakout cables, patchbay harnessing, or short to medium length permanent installation. In addition, the 5526 series is now characterized up to 25MHz for 192kHz transmission.

Mechanical Specifications (Series)

Conductors	Insulation (type, wall thick)	Pair Shield	Pair Drain	Pair Jacket/Color Code	Master Jacket	UL Type
26 AWG (7x34) Stranded TC	Foam PP, .015"/ White & Black	100% Foil	26 AWG (7x34) Stranded TC	PVC/Base 10	Gep-Flex TPE, Gray	CM

Mechanical Specifications (Individual)

Part Number	# of Pairs	Nominal OD	Approx. Weight
552604GFC	4	.435"	65 lbs/Mft
552608GFC	8	.560"	140 lbs/Mft
552612GFC	12	.685"	200 lbs/Mft
552616GFC	16	.785"	270 lbs/Mft
552624GFC	24	.975"	395 lbs/Mft

Electrical Specifications

				Attenuation (dB per 100 ft)				
Impedance	Capacitance	Cond. DCR	Drain DCR	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	38.5 Ω/Mft	1.25	1.85	2.40	3.16	4.20

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Wide Bandwidth/Extended Distance Single & Dual-pair

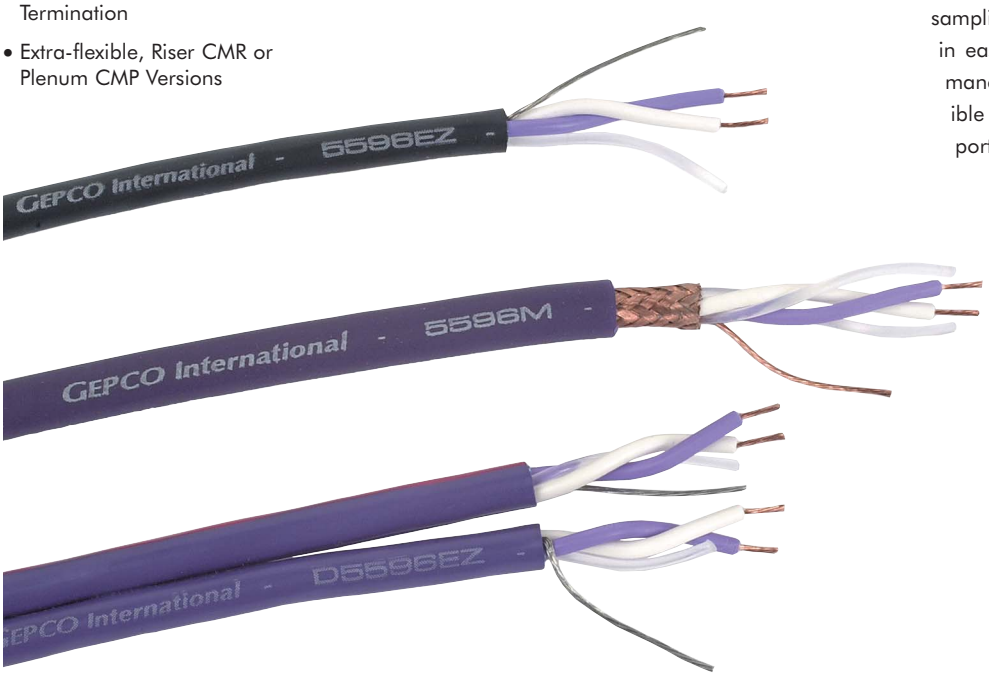
Features & Benefits

- Extra-low Attenuation
- Precision 110Ω Impedance
- 25MHz Bandwidth for 192kHz Sampling Rates
- Oxygen-free Copper Conductors
- Gas-injected Foam Polyethylene or Foam Teflon Dielectric
- Stabilizing Polyethylene Rod(s)
- Drain Wire for Quick Shield Termination
- Extra-flexible, Riser CMR or Plenum CMP Versions

Applications

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

Extra-low loss 110Ω AES/EBU wide bandwidth, digital audio twisted-pair cable. The 5596 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 5596 series allows for longer runs of AES3 format digital audio over twisted-pair cable. The extended 25MHz bandwidth is compliant with the 1999 revision of 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
5596M	1	.235"	24 AWG (7x32 AWG) Oxygen-free Stranded BC	Gas-injected Foam PE/ One White, One Violet	(2) Solid Virgin Polyethylene Rods	95% Oxygen-free BC Braid	24 AWG (7x32) Oxygen-free Stranded BC	Flexible Matte PVC, Violet	-----	27lbs/Mft
	Wide Bandwidth Single-pair: Extra-flexible									
5596EZ	1	.190"	24 AWG (7x32 AWG) Oxygen-free Stranded BC	Gas-injected Foam PE/ One White, One Violet	Pressure Jacket with (1) Solid Virgin Polyethylene Rod	Bonded 100% Foil (Alum/Mylar)	24 AWG (7x32) Stranded TC	PVC, Violet or Black	CMR	14 lbs/Mft
	Wide Bandwidth Single-pair: Permanent Install. Easy Strip & Termination									
D5596EZ	2	.385" x .190"	24 AWG (7x32 AWG) Oxygen-free Stranded BC	Gas-injected Foam PE/ One White, One Violet	Pressure Jacket with (1) Solid Virgin Polyethylene Rod	Bonded 100% Foil (Alum/Mylar)	24 AWG (7x32) Stranded TC	PVC, Violet with Red Stripe	CMR	28 lbs/Mft
	Wide Bandwidth Dual-pair: Permanent Install. Easy Strip & Termination									
5596TS	1	.175"	24 AWG (7x32 AWG) Oxygen-free Stranded BC	Foam FEP/ One White, One Violet	----------	100% Foil	24 AWG (7x32) Stranded TC	Plenum PVC White	CMP	13 lbs/Mft
	Wide Bandwidth Single-pair: Plenum									

Electrical Specifications

					Attenuation (dB per 100 ft)				
Part #	Impedance	Capacitance	Cond. DCR	Drain DCR	1MHz	3MHz	6MHz	12MHz	25MHz
5596M	110 Ω	11pF/ft between conductors, 21 pF/ft between one conductor and other tied to shield	23.8 Ω/Mft	23.8 Ω/Mft	.60	.90	1.60	2.30	3.40
5596EZ/D5596EZ	110 Ω	11pF/ft between conductors, 21 pF/ft between one conductor and other tied to shield	23.8 Ω/Mft	23.8 Ω/Mft	.90	1.30	1.70	2.50	4.10
5596TS	110 Ω	11pF/ft between conductors, 21 pF/ft between one conductor and other tied to shield	23.8 Ω/Mft	23.8 Ω/Mft	.80	1.20	1.50	2.00	2.90

Thin Profile Single & Dual-pair

Features & Benefits

- Thin Profile
- Low Attenuation & Capacitance
- Precision 110Ω Impedance
- 25MHz Bandwidth for 192kHz Sampling Rates
- High-velocity Foam Polypropylene Dielectric
- Stabilizing Polyethylene Rod(s)
- Easy-strip, Bonded Foil or Oxygen-free Spiral Serve Shield
- 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 5526 series of AES/EBU digital audio twisted-pair that features low attenuation, mechanical stability, 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. Available in an easy-to-terminate version for permanent installation and an extra-flexible version for rack patching or bantam/longframe patchcords. In addition, the 5526 series is now characterized up to 25MHz for 192kHz sampling rates.

Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Dielectric (type, wall thick) Color Code	Shield	Drain Wire	Jacket (type, colors)	UL Type	Approx. Weight
5526	1	.199"	26 AWG (30x40) Stranded Oxygen-free BC	Foam PP, .016"/ White & Black	98% Oxygen-free BC Spiral Serve	None	Flexible Matte PVC, Black	-----	19 lbs/Mft
	Thin Profile Single-pair: Extra-flexible								
5526EZ	1	.143"	26 AWG (7x34) Stranded TC	Foam PP, .015"/ White & Black	100% Foil (Bonded)	26 AWG (7x34) Stranded TC	PVC, Black	CM	10 lbs/Mft
	Thin Profile Single-pair: Easy Strip & Termination								
D5526EZ	2	.143 x .290"	26 AWG (7x34) Stranded TC	Foam PP, .015"/ White & black	100% Foil (Bonded)	26 AWG (7x34) Stranded TC	PVC, Black	CM	21 lbs/Mft
	Thin Profile Dual-pair: Easy Strip & Termination								

Electrical Specifications

Part #	Impedance	Capacitance	Cond. DCR; Drain DCR	Attenuation (dB per 100 ft) 1MHz	3MHz	6MHz	12MHz	25MHz
5526	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
5526EZ/ D5526EZ	110 Ω	14 pF/ft between conductors, 27 pF/ft between one conductor and other tied to shield	41.2 Ω/Mft; 41.2 Ω/Mft	1.25	1.85	2.40	3.16	4.20

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SPDIF

Features & Benefits

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

Applications

- SPDIF
- AES3id
- 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, VE61859M utilizes a stranded center conductor, single braid shield, and ultra-flexible PVC jacket for excellent flexibility and flex-life. VE61859M features 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	Conductors	Insulation (type, wall thick)	Shield	Jacket (type, colors)	Approx. Weight
VE61859M	1	.242"	22 AWG (19x34) Stranded BC	Foam PE, .146"	95% BC Braid	Flexible Matte PVC, Black	60 lbs/Mft

Electrical Specifications

Part #	Impedance	Return Loss (100kHz-1GHz)	Capacitance	Cond DCR per Mft/ Shield DCR per Mft	Vel. of Prop	Attenuation (dB per 100ft)								
						1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400. MHz	700 MHz	900 MHz	1 GHz
VE61859M	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

Word Clock & 75Ω AES/EBU Coax

Features & Benefits

- Ultra-low Attenuation & Return Loss
- Low Jitter
- Precision 75Ω Impedance
- Gas-injected Dielectric
- Broadband Dual Shield
- 3GHz 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, 75Ω AES3id, or multiplexed digital audio formats. The same as Gepco's HD video series, these coaxial cables utilize Gepco's 3GHz 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
	Extended Distance RG11								
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
	Extended Distance RG7								
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
	Low-loss RG6								
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
	Standard RG59								
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
	Miniature								

Electrical Specifications

Part #	Impedance	Return Loss (100kHz-1GHz), (1GHz-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	1.5 GHz	2.25 GHz	3 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
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
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
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
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

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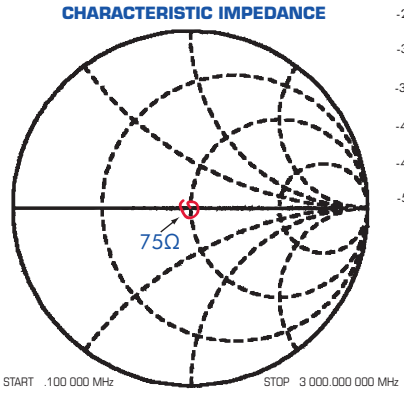
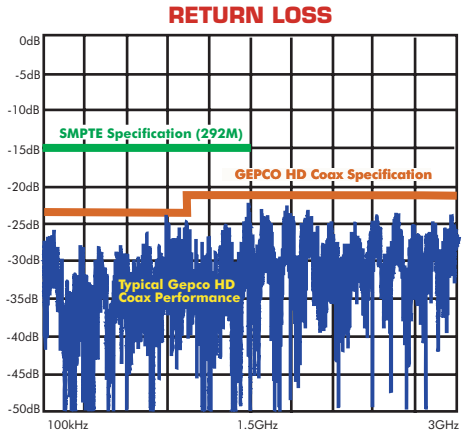




Precision Specifications

To ensure that the impedance, return loss and attenuation performance of each cable meets or exceeds the published specifications and industry standards, all Gepco coax is produced to exacting standards and within tight tolerances. Through this precision and matching, degradation and ghosting are minimized in analog video signals, while bit-errors and jitter are greatly reduced in digital data streams.

Gepco coax is produced to either a +/- 3 or +/- 2 ohm impedance tolerance, 100% sweep-tested to either 1, 2.4 or 3GHz, and characterized to specific structural-return-loss values. These specifications meet, and in many cases exceed, industry requirements such as those set in the SMPTE 292M and 259M standards for High Definition and SDI digital video interconnect.

VIDEO

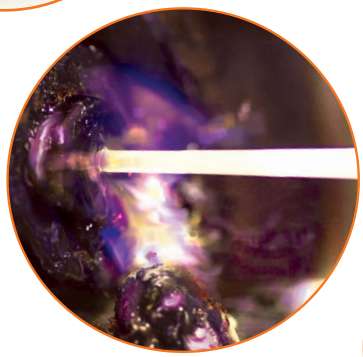
Comprehensive Quality Control & Testing

To ensure that every reel of cable consistently meets all specified standards, Gepco coax is subjected to comprehensive multi-stage testing and measurement. Each production reel is tested for impedance, velocity of propagation, attenuation, structural return loss, pull-out, critical diameters, cell structure, conductor centering, and continuity at every necessary production stage during the manufacturing process.

100% Sweep Tested

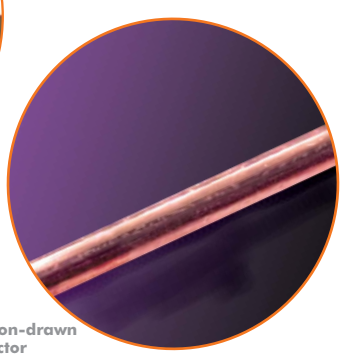
Gas-injected Foam Dielectric & Precision-drawn Conductor

Most Gepco coaxial cables, including the High Definition series, utilize Gepco's unique nitrogen gas-injected foam polyethylene dielectric. This processed material provides the lowest possible attenuation by minimizing high-frequency absorption, reducing the diameter, and increasing the velocity of propagation. Unlike other foam dielectrics, Gepco's dielectric has an extremely uniform cell structure, is highly crush-resistant, and has superior aging characteristics. These attributes greatly extend the performance, life and reliability of the cable.



Gas-injected Dielectric

Equally critical, Gepco coax features a precision-drawn, solid-copper center conductor. This conductor type is drawn over multiple stages to reach an exacting and consistent diameter devoid of any significant chatter, variation or oxidization.

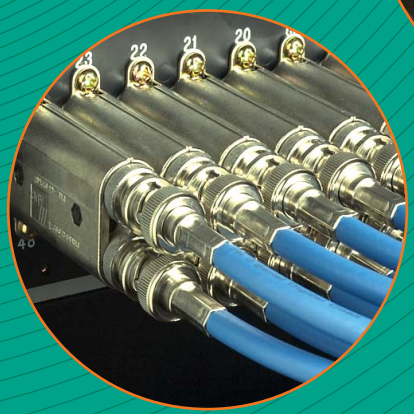


Precision-drawn Conductor

Gepco was the first cable manufacturer to truly advance the design and manufacturing processes for video cables by using a gas-injected foam dielectric to produce SDI digital and high resolution analog video coax cable. This technology enabled for better performance and wider bandwidth, in a crush resistant and thinner profile cable.

Over the years, Gepco has continually advanced and refined this category to not only keep pace with, but stay ahead of, industry demands for newer and increasingly more complex applications, such as High Definition broadcasting and broadband video, which operate at significantly higher data-rates and require more cable bandwidth. At the same time, Gepco keeps traditional applications firmly in mind, by continuing to manufacture a broad array of products for other formats and legacy systems, such as closed-circuit television, general distribution, precision analog, and component video.

CABLE



In This Section:

- High Definition SDI Coax
- Miniature SDI Coax
- High Definition RGB Snake
- Miniature RGB Snake
- High Definition Ten-channel Snake
- Miniature Ten-channel HD SDI Snake
- Plenum Miniature RGB Snake
- Flexible Low-loss Analog Coax
- Broadband & Distribution Coax
- Precision Video Coax
- Head End Coax
- Conventional Analog Coax
- 50Ω Coax
- Composite A/V: Parallel-zip
- Composite A/V: Thin Profile
- Composite A/V: Low Loss

High Definition SDI Coax

Features & Benefits

- Ultra-low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz Bandwidth for HDTV
- High Velocity of Propagation
- Gas-injected Foam Polyethylene or Teflon Dielectric
- Full Copper Braid and 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 3GHz 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 3GHz 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 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
	Extended Distance RG11								
VHD1100TK	1	.346"	14 AWG Solid BC	Gas-injected Foam PE, .285"	95% TC Braid, 100% Foil	PVDF	White, others by special order	CMP	78 lbs/Mft
	Extended Distance RG11: Plenum								
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
	Extended Distance RG7								
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
	Low-loss RG6								
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
	Low-loss RG6: Direct Burial								
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
	Low-loss RG6: Plenum								
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
	Standard RG59								
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
	Standard RG59: Plenum								

Electrical Specifications

Part #	Impedance	Return Loss (100kHz-1GHz), (1GHz-3GHz)	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
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
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
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
VSD2001(PEF)	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
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
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
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

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Miniature SDI Coax

Features & Benefits

- Thin Profile
- Low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz Bandwidth for HDTV (VDM230)
- High Velocity of Propagation
- Stranded or Solid Conductor
- Gas-injected Foam Polyethylene Dielectric
- Full Copper Braid and Foil Shield
- 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 it's type while maintaining a reduced size and weight. All utilize a pure copper center conductor, low-loss foam polyethylene dielectric, and broad-band foil & 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 & 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
	Low-loss Miniature HD SDI Coax								
VDM250	1	.154"	25 AWG (7x33) Solid BC	Gas-injected Foam PE, .099"	95% TC Braid, 100% Foil	PVC	Black	CMR	16 lbs/Mft
	Miniature SDI Coax								
VDM250D	2	.154" x .315"	25 AWG (7x33) Solid BC	Gas-injected Foam PE, .099"	95% TC Braid, 100% Foil	Flexible Matte PVC	Black	----	33 lbs/Mft
	Dual Miniature SDI or SVHS Coax								

Electrical Specifications

Part #	Impedance	Return Loss (100kHz-1GHz), (1GHz-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	1.5 GHz	2.25 GHz	3 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
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	----	----	----

High Definition RGB Snake

Features & Benefits

- Ultra-Low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz Bandwidth for HDTV
- High Velocity of Propagation
- Gas-injected Foam Polyethylene Dielectric
- Full Copper Braid and Foil Shield
- Flexible
- All-weather GEP-FLEX Master Jacket
- 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 the High Definition VSD2001 video coax. Coaxial construction is identical to VSD2001, which features low attenuation, 3GHz HD bandwidth, and broadband shielding. New Riser Gep-Flex master jacket is both flexible, durable, and UL rated allowing for use in permanent installation or portable applications. Ideal for low-loss component analog video or multi-channel digital or analog video interconnect.

Mechanical Specifications (Series)

Conductors	Insulation (type, OD)	Shield	Coax Jacket (type, OD)	Master Jacket	UL Type
18 AWG Solid BC	Gas-injected Foam PE, .180"	95% TC Braid, 100% Foil	PVC, .272"	Riser Gep-Flex TPE, Black	CMR

Mechanical Specifications (Individual)

Part #	# of Coaxials	Color Code	Nominal OD	Approx. Weight
VS32001	3	Red, Green, Blue	.735"	182 lbs/Mft
VS42001	4	Red, Green, Blue, Yellow	.790"	230 lbs/Mft
VS52001	5	Red, Green, Blue, Yellow, White	.845"	295 lbs/Mft

Electrical Specifications

Impedance	Return Loss (100kHz-1GHz), (1GHz-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	1.5 GHz	2.25 GHz	3 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

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Miniature RGB Snake

Features & Benefits

- Thin Profile
- Low Attenuation & Return Loss
- Precision 75Ω Impedance
- 1GHz Bandwidth
- High Velocity of Propagation
- Extra-flexible
- Gas-injected Foam Polyethylene Dielectric
- Full Copper Braid and Foil Shield
- New Easy-to-strip, More Flexible PVC Coax Jackets
- All-weather GEP-FLEX Master Jacket
- CMR Riser Rated

Applications

- Standard Definition Serial Digital Video
- Digital Audio (AES3id or SPDIF)
- High Resolution RGB Component Analog Video
- 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-angle 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"	Riser Gep-Flex TPE, Black	CMR

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

High Definition Ten-channel Snake

Features & Benefits

- Ultra-low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz Bandwidth for HDTV
- High Velocity of Propagation
- Flexible
- Gas-injected Foam Polyethylene Dielectric
- Full Copper Braid and Foil Shield
- 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
- Ideal for Extended DIstance Runs

Ten-conductor High Definition video coax snake cable for multi-channel digital or analog video interconnect in remote applications. The coaxial construction of VS102000 is identical to VPM2000 for low attenuation, 3GHz HD bandwidth, and broadband shielding. For the outer jacket, an all-weather TPE is utilized for both flexibility and ruggedness.

Mechanical Specifications

Part #	# of Coaxials	Nominal OD	Conductors	Insulation (type, OD)	Shield	Coax Jacket (type, OD)	Coax Color Code	Master Jacket	Approx. Weight
VS102000	10	1.10"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% TC Braid, 100% Foil	PVC, .242"	Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black	TPE, Black	520 lbs/Mft

Electrical Specifications

Impedance	Return Loss (100kHz-1GHz), (1GHz-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	1.5 GHz	2.25 GHz	3 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

Miniature Ten-channel HD SDI Snake

Features & Benefits

- Thin Profile
- Low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz Bandwidth for HDTV
- High Velocity of Propagation
- Extra-flexible
- Gas-injected Foam Polyethylene Dielectric
- Full Copper Braid and Foil Shield
- 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 ten-conductor High Definition video coax snake cable for multi-channel digital or analog video interconnect. VS10230 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, 3GHz HD bandwidth, and broadband shielding. For the outer jacket, an all-weather TPE is utilized for both flexibility and ruggedness.

Mechanical Specifications

Part #	# of Coaxials	Nominal OD	Conductors	Insulation (type, OD)	Shield	Coax Jacket (type, OD)	Coax Color Code	Master Jacket	Approx. Weight
VS10230	10	.785"	23 AWG Solid BC	Gas-injected Foam PE, .100"	95% TC Braid, 100% Foil	PVC, .164"	Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black	TPE, Black	315 lbs/Mft

Electrical Specifications

Impedance	Return Loss (100kHz-1GHz), (1GHz-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	1.5 GHz	2.25 GHz	3 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

Plenum Miniature RGB Snake

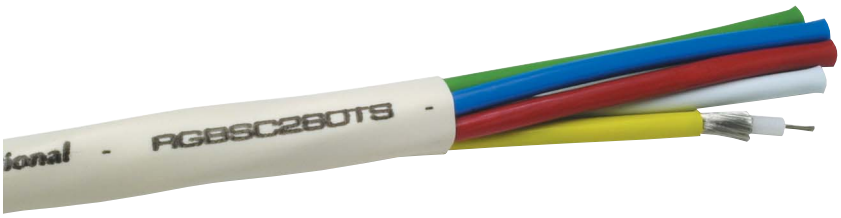
Features & Benefits

- Thin Profile
- Precision 75Ω Impedance
- High Velocity of Propagation
- Flexible
- Foam Flouropolymer Dielectric
- Copper Serve and Foil Shield
- Plenum PVC Master Jacket
- 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 15pin High Density D-sub connectors or BNC type connectors for component breakout. Ideal for projection systems and VGA cables.



Mechanical Specifications

Part #	# of Coaxials	Nominal OD	Conductors	Insulation (type, OD)	Shield	Coax Jacket (type, OD)	Coax Color Code	Master Jacket	Approx. Weight
RGBSC260TS	5	.310"	26 AWG (7x34) Stranded TC	Foam FEP, .072"	100% Foil, 95% TC Spiral Serve	Flouropolymer, .102"	Red, Green, Blue, Yellow, White	Plenum PVC, White	80 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%	.90	1.40	2.08	4.90	6.65	9.45	11.0	16.7	20.5

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Flexible Low-Loss 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
- Full Copper Braid Shield
- 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 (type, wall thick)	Shield	Jacket (type, colors)	Approx. Weight
VE61859M	1	.242"	22 AWG (19x34 Compact) Stranded BC	Foam PE, .146"	95% BC Braid	Flexible Matte PVC, Black	60 lbs/Mft

Electrical Specifications

Part #	Impedance	Return Loss (100kHz-1GHz)	Capacitance	Cond DCR per Mft/ Shield DCR per Mft	Vel. of Prop	Attenuation (dB per 100ft)								
						1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
VE61859M	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

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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 and Foil Shield

Applications

- Broadband
- CATV
- MATV

Gepco 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
	RG59 Broadband Coax								
VB1860	1	.272"	18 AWG Copper Clad Steel	Gas-injected Foam PE, .180"	60% AL Braid, 100% Foil	PVC	Black	CM	26 lbs/Mft
	RG6 Broadband Coax								
VB1890TS *	1	.237"	18 AWG Copper Clad Steel	Foam FEP, .170"	90% AL Braid, 100% Foil	Plenum PVC	White	CMP	24 lbs/Mft
	RG6 Broadband Coax: Plenum								
VB1890	1	.272"	18 AWG Copper Clad Steel	Gas-injected Foam PE, .180"	90% AL Braid, 100% Foil	PVC	Black	CM	29 lbs/Mft
	RG6 Broadband Coax								
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
	RG6 Broadband Coax: Quad Shield								
VB18QTS *	1	.257"	18 AWG Copper Clad Steel	Foam FEP, .170"	40% AL Braid,100% Foil 60% AL Braid,100% Foil	Plenum PVC	White	CMP	30 lbs/Mft
	RG6 Broadband Coax: Plenum Quad Shield								
VB1460 *	1	.405"	14 AWG Copper Clad Steel	Gas-injected Foam PE, .285"	60% AL Braid, 100% Foil	PVC	Black	CM	63 lbs/Mft
	RG11 Broadband Coax								
VB1490TK *	1	.350"	14 AWG Copper Clad Steel	Foam FEP, .285"	90% AL Braid, 100% Foil	Kynar	White	CL2P 125ºC	69 lbs/Mft
	RG11 Broadband Coax: Plenum								

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

* These items are special order only and require a minimum order. Please consult factory for details.

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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

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
	Standard Precision Coax							
VP618M	1	.304"	22 AWG (19x34 Compact) Stranded BC	PE, .192"	Double Braid: 95% & 93% TC	Flexible Matte PVC, Black	-----	78 lbs/Mft
	Extra-flexible Precision Coax							

Electrical Specifications

Part #	Impedance	Return Loss (100kHz-1GHz)	Capacitance	Cond DCR per Mft/ Shield DCR per Mft	Vel. of Prop	Attenuation (dB per 100ft)								
						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

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.

Conventional Analog Coax

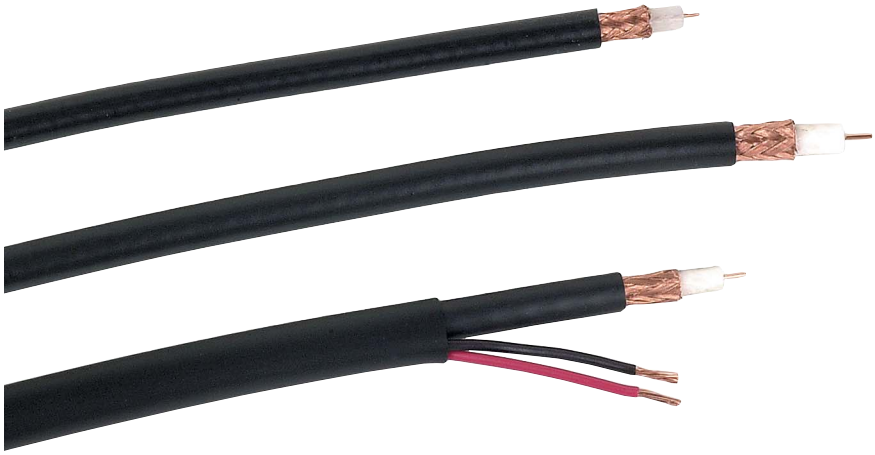
Features & Benefits

- 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

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
	RG59 Standard Coax								
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
	RG59 CCTV Coax								
VC2095TS *	1	.200"	20 AWG Solid BC	Foam FEP, .135"	95% BC Braid	N/A	Plenum PVC, White	CMP	30 lbs/Mft
	RG59 CCTV Coax: Plenum								
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
	RG59 CCTV Coax & Power Twisted-pair: Dual-zip								
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
	RG59 CCTV Coax & Power Twisted-pair: Overall Jacket								
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
	RG6 CCTV Coax								
VC1895TS *	1	.237"	18 AWG Solid BC	Foam FEP, .170"	95% BC Braid	N/A	Plenum PVC, White	CMP	38 lbs/Mft
	RG6 CCTV Coax: Plenum								

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

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

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

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: Parallel-zip

Features & Benefits

- 22 Gage Single-pair
- RG59 Coaxial
- Individually Shielded & Jacketed
- Standard PVC Jacket

Applications

- Analog Video
- Microphone or Line Level Balanced Analog Audio

Dual co-extruded audio and video composite cable. Single RG59 type coax and 22 gage shielded twisted pair allow for one video and one analog audio signal to be transmitted over a single cable. Zip type construction is light weight and easy to terminate.

Coax Mechanical Specifications

Conductor	Insulation (type, OD)	Shield	Coax Jacket (type, OD)
22 AWG (7x30) Stranded BC	PE, .146", Foam	95% TC Braid	PVC, .242"

Single-pair Mechanical Specifications

Conductor	Insulation (type, OD)	Color Code	Shield	Drain	Jacket (type, OD)
22 AWG (7x30) Stranded TC	PVC, .013"	White & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC, .242"

Overall Mechanical Specifications

Part #	# of Coaxials	# of Single-pairs	Nominal OD	Approx. Weight
VRC618	1	1	.242" x .484"	54 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)	>20dB	17.3 pF/ft	15.3 Ω/2.7 Ω	82%	0.39	1.01	2.27	3.23	4.63	6.74	9.34	10.8	11.5

Single-pair Electrical Specifications

Capacitance	Cond. DCR	Drain DCR
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 and Jacketed Pairs & Coaxials
- Color Coded
- Additional Overall Foil Shield
- 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	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	PVC, .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

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Composite A/V: Low Loss

Features & Benefits

- Low Attenuation & Crosstalk
- Flexible
- Easy to Terminate
- 61801EZ Single Pairs
- VPM2000 Coaxials
- Individually Shielded and Jacketed Pairs & Coaxials
- Color Coded
- Additional Overall Foil Shield
- 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, 3GHz 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-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	1.5 GHz	2.25 GHz	3 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

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

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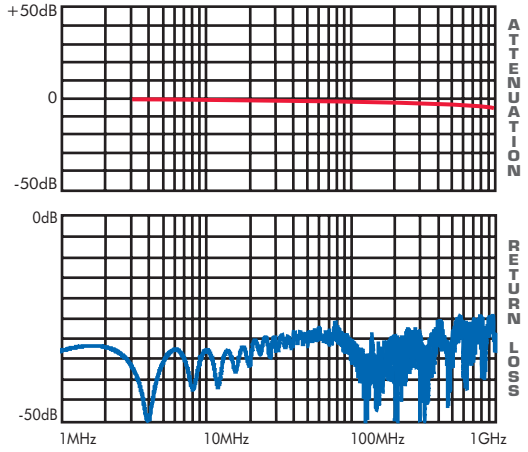
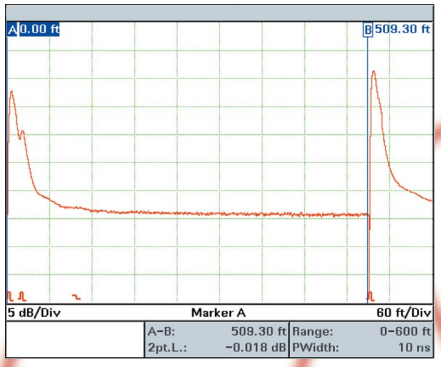
TRIAX (TYPE 11U)



SINGLE-MODE FIBER



Low Attenuation Precision Specifications

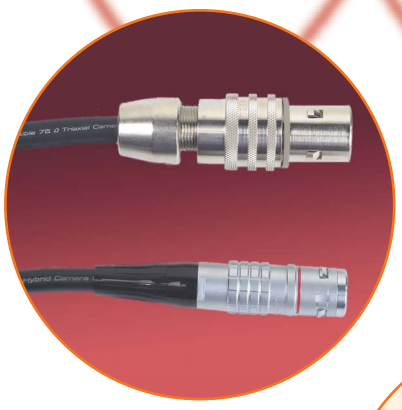
To achieve the lowest possible attenuation, the copper-based triax cables utilize Gepco's proprietary gas-injected polyethylene for the insulating dielectric. This material substantially lowers the attenuation of the cable, increases the velocity of propagation, and achieves low return loss and a precision impedance. In turn, the degradation of analog signals is greatly reduced, and digital data streams are transmitted with less error.

The hybrid fiber cable series features single-mode optical fiber for picture, audio and data transmission. Single-mode fiber offers the highest bandwidth due to the low loss and modal-dispersion of the 9 micron glass core. As a result, high bit-rate, uncompressed HD video can be accurately transmitted over extremely long distances from the camera to CCU.

CAMERA

Connectorized Cable Assemblies Available

Both triax and hybrid fiber cables can be ordered as factory-terminated, completely functional cable assemblies with connector ends. Cables can be ordered in a variety of colors, in standard or custom lengths, and are rigorously tested and verified. Please consult the Connectorized Cables & Breakout Systems section, pages 84 & 85 for details.



Factory Terminated Cable Assemblies

Durability

Both triax and hybrid fiber camera cable products have been designed to offer the highest possible level of durability. The triax series' dielectric is extruded through a proprietary compound-blending and nitrogen-injection process that achieves excellent crush-resistance, aging and flex-life properties. The hybrid fiber series utilizes a special high-strength nylon fiber coating, steel strength member, and an additional Kevlar wrap and PVC jacket around each fiber for added durability (12mm cables only). In addition to the core, both the triax and hybrid fiber products employ specialized jacketing compounds in the portable cable versions to offer a unique combination of ruggedness, flexibility and weather-resistance.

Durable, All-weather Versions

CABLE

As production standards for television and film have evolved, Gepco's product lines have evolved as well. The recent introductions of digital and High Definition television have only continued to raise standards, which Gepco has met with innovative triax and hybrid fiber product development.

Gepco triax cable for video cameras has been the leading choice for broadcasters and video production companies for almost two decades and have become well-regarded due to their dependability and precision electrical performance. For significantly more challenging HDTV requirements, Gepco developed its lines of hybrid fiber optic camera cables to provide reliable interconnect solutions for the demanding nature of high data-rate uncompressed HD video. Both series of products have been designed in a multitude of configurations that range from portable to permanent installation versions, enabling use in almost any application.

In This Section:

Flexible Studio/Remote Triax
Permanent Install Triax
9.2mm Hybrid Fiber Optic
12mm Heavy-duty Hybrid Fiber Optic
HD Camera Electrical Cable
Indoor Single-mode Fiber Optic

Flexible Studio/Remote Triax

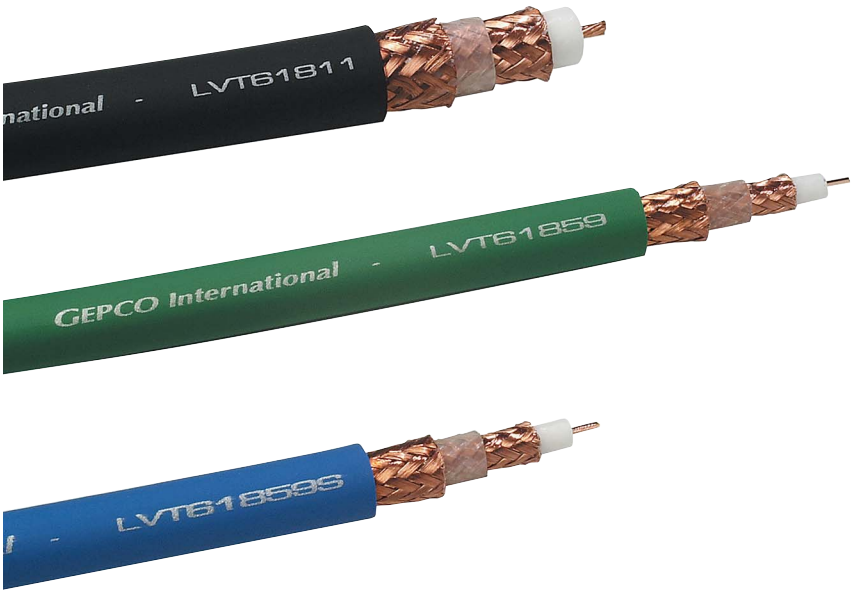
Features & Benefits

- 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-angle, 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	Foam PE, .312"	95% BC Braid	PE, .392"	95% BC Braid	TPE	Black, Red, Yellow, Green, Blue	136 lbs/Mft
	Extended Distance RG11 Flexible Triax									
LVT61859	1	.360"	20 AWG Solid BC	Foam PE, .146"	95% BC Braid	PE, .216"	95% BC Braid	TPE	Black, Red, Yellow, Green, Blue, Violet	80 lbs/Mft
	Thin Profile RG59 Flexible Triax									
LVT61859S	1	.360"	21 AWG (19x34) Stranded BC	Foam FEP, .146"	95% BC Braid	PE, .216"	95% BC Braid	TPE	Black, Red, Blue	80 lbs/Mft
	Thin Profile RG59 Flexible Triax: Stranded									

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
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
VT61811	1	.475"	14 AWG Solid BC	Foam PE, .285"	93% BC Braid	PE, .365"	93% BC Braid	PVC, Black	CMR	120 lbs/Mft
	Extended Distance RG11 Triax									
VT61811PEF	1	.475"	14 AWG Solid BC	Foam PE, .285"	93% BC Braid	PE, .365"	93% BC Braid	PE with Water Blocking Tape, Black	-----	125 lbs/Mft
	Extended Distance RG11 Triax: Direct Burial									
VT61811TK		.413"	14 AWG Solid BC	Foam PE, .285"	93% BC Braid	PVDF, .350"	90% BC Braid	PVDF, White	CMP	122 lbs/Mft
	Extended Distance RG11 Triax: Plenum									
VT61859	1	.360"	20 AWG Solid BC	Foam PE, .146"	95% BC Braid	PE, .216"	95% BC Braid	PVC, Black	CMR	80 lbs/Mft
	Thin Profile RG59 Triax									

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
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

Features & Benefits

- Ultra-low Attenuation
- SMPTE 311M Compliant
- Single Mode Optical Glass Fibers
- Proprietary Fiber Coating for Increased Tensile Strength
- Six Copper Conductors
- Heat Resistant
- Strength Member for Additional Durability
- Copper Braid Shield
- Extra-flexible TPE or Riser PVC Jacket

Applications

- High Definition Camera to CCU Interconnect
- Portable Cables (HDC920)
- Permanent Installation (HDC920R)
- 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. Both extra-flexible and permanent installation versions are available for studio, remote or permanent installation applications.

Mechanical Specifications (Series)

Component	Number	Type	Insulation (type, OD)	Color Code
Optical	2	Single Mode 9.5 μ Mode. Field, 125 μ 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

Mechanical Specifications

Part #	Nominal OD	Master Jacket (type, colors)	Overall Shield	UL Type	Approx. Weight
HDC920	9.20mm	Flexible Thermoplastic, Black	95% TC Braid	AWM	90 lbs/Mft
	Extra-flexible Hybrid Camera Cable				
HDC920R	9.20mm	PVC, Black	95% TC Braid	CMR	91 lbs/Mft
	Permanent Install Hybrid Camera Cable				

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)

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12mm Heavy-duty Hybrid Fiber Optic

Features & Benefits

- Ultra-low Attenuation
- SMPTE 311M Compliant
- Single Mode Optical Fibers with Kevlar & PVC Jackets
- Proprietary Fiber Coating for Increased Tensile Strength
- Four Large Gage Copper Conductors
- Heat Resistant
- Strength Member for Additional Durability

Applications

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

Larger, more rugged, 12mm Hybrid Fiber cables for improved durability in High Definition camera interconnect. 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. Unlike other types, the 12mm series utilizes only 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. The 12mm Hybrid series is available with either an extra-thick, extra-flexible PVC jacket, or an extra-thick, heavy-duty polyurethane jacket.

Mechanical Specifications (Series)

Component	Number	Type	Insulation (type, OD)	Color Code
Optical	2	Single-mode Fiber Optic (9.5μ Mode Field, 125μ Cladding)	CPE Fiber Coating, Kevlar Wrap, Tight Tube PVC Jacket, .062" Finished O.D.	One Blue, One Yellow
Signal	2	22 AWG (19x34) Stranded TC	PE, .082"	One Red, One Gray
Auxiliary	2	16 AWG (16x34) Stranded TC	PE, .092"	One White, One Black
Strength Member	1	16 AWG Stranded Steel	PVC, .098"	One White

Mechanical Specifications

Part #	Nominal OD	Master Jacket (type, colors)	Overall Shield	Approx. Weight
HDC120	12mm	Flexible Thermoplastic, Black	95% TC Braid	122 lbs/Mft
	Hybrid Fiber Camera Cable			
HDC120P	12mm	Polyurethane, Black	95% TC Braid	135 lbs/Mft
	Hybrid Fiber Camera Cable: PU Jacket			

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	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)	311M Compliant (meets or exceeds)

HD Camera Electrical Cable

Features & Benefits

- Specialized Electrical-only Design
- Four Large-gage Copper Conductors
- Heat Resistant
- Copper Braid Shield
- Single, Three, and Four-channel Versions
- 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. These cables, when used with single-mode indoor fiber optic cables and the Gepco HDR hybrid fiber distribution rack, provide an alternative to permanently installing rack to rack infrastructure wiring. In addition to the standard single-channel versions, this series is also available in three or four-element versions that further add convenience and decrease installation time. Both UL-rated plenum and riser versions are available.

Mechanical Specifications

Part #	# of Channels	# of Conductors per Channel	Channel Nominal OD	Auxiliary Conductor	Auxiliary Insulation (type, OD)	Signal Conductor	Signal Insulation	Channel Shield	Channel Jacket (type, colors)	Overall Jacket (type, color, OD)	UL Type	Approx. Weight
HDP221	1	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
	Single-channel HD Electrical Cable											
HDP221P	1	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
	Single-channel HD Electrical Cable: Plenum											
HDP223*	3	2 Auxiliary 2 Signal	.315"	16 AWG (65x34) Stranded TC	PE, .020"	22 AWG (19x34) Stranded TC	PE, .015"	90% TC Braid	PVC, Black	PVC, Black, .785"	CMR	278 lbs/Mft
	Three-channel HD Electrical Cable											
HDP223P*	3	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	Poly Wrap Binder (No Outer Jacket), .450"	CMP	182 lbs/Mft
	Three-channel HD Electrical Cable: Plenum											
HDP224*	4	2 Auxiliary 2 Signal	.315"	16 AWG (65x34) Stranded TC	PE, .020"	22 AWG (19x34) Stranded TC	PE, .015"	90% TC Braid	PVC, Black	PVC, Black, .860"	CMR	360 lbs/Mft
	Four-channel HD Electrical Cable											
HDP224P*	4	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	Poly Wrap Binder (No Outer Jacket), .500"	CMP	242 lbs/Mft
	Four-channel HD Electrical Cable: Plenum											

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

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

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Indoor Single-mode Fiber Optic

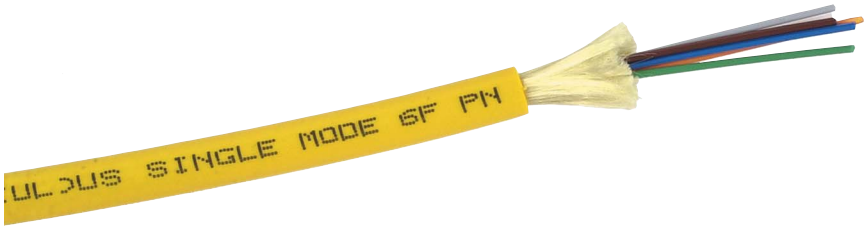
Features & Benefits

- Low-loss, Single-mode Optical Glass Fibers
- Minimal Modal Dispersion
- Distribution & Breakout Type Constructions
- Kevlar Filler
- Two Through Twelve Elements
- Riser or Plenum Rated

Applications

- Interconnection of Video and Audio Data for Multiple HD Cameras
- For Permanent Installation
- Ideal for Use with Gepco Electrical HD Cables and HDR Hybrid Fiber Distribution Rack System

Low-loss, single-mode, fiber-optic cable available in break-out 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, these cables are the critical element in the permanent installation infrastructure for High Definition cameras.



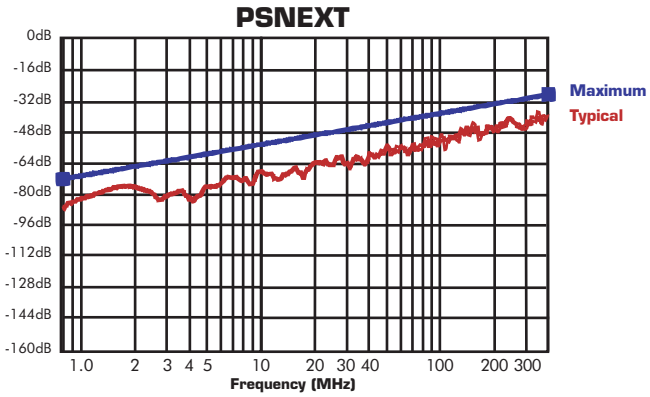
Fiber Specifications

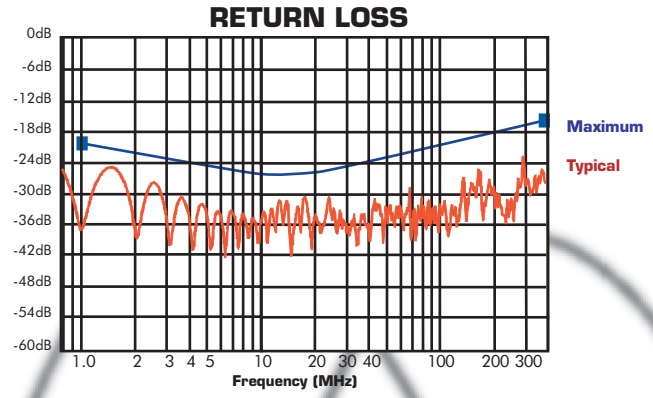
Type	Mode Field Diameter	Cladding Diameter	Maximum Attenuation
Single Mode	8.3 μ	125 μ	≤ 0.70 dB/Km @ 1310/1550nm

Mechanical Specifications

Part #	Fiber Buffer	Outer Jacket	Number of Elements	Nominal OD	Maximum Tension		Minimum Bend Radius		Maximum Vertical Rise	Weight	UL Type
					Installation (Pulling)	Operating	Installation (Pulling)	Operating			
FSDR** *=Number of Elements	PVC Tight Buffer Coating with Overall Kevlar Filler (.9mm OD)	PVC (Yellow)	2	.187″	180 lbs	56 lbs	3.74″	1.9″	2987′	15 lbs/Mft	OFNR OFN FT4
			4	.220″	225 lbs	91 lbs	4.4″	2.2″	3832′	19 lbs/Mft	
			6	.235″	225 lbs	91 lbs	4.7″	2.4″	3467′	21 lbs/Mft	
			8	.245″	315 lbs	104 lbs	4.9″	2.5″	3617′	23 lbs/Mft	
			12	.275″	405 lbs	135 lbs	5.5″	2.8″	3600′	30 lbs/Mft	
	Premise Distribution: Riser Rated										
FSDP** *=Number of Elements	Plenum PVC Tight Buffer Coating with Overall Kevlar Filler (.9mm OD)	Plenum PVC (Yellow)	2	.150″	180 lbs	56 lbs	3″	1.5″	4978′	9 lbs/Mft	OFNP OFN FT6
			4	.180″	225 lbs	91 lbs	3.6″	1.8″	5200′	14 lbs/Mft	
			6	.195″	225 lbs	91 lbs	3.9″	2.0″	4853′	15 lbs/Mft	
			8	.205″	315 lbs	104 lbs	4.1″	2.1″	4622′	18 lbs/Mft	
			12	.215″	405 lbs	135 lbs	4.5″	2.3″	4909′	22 lbs/Mft	
	Premise Distribution: Plenum Rated										
FSBR** *=Number of Elements	PVC Tight Buffer Coating (.9mm OD) with Kevlar Filler & PVC Tube Jacket (2.5mm OD)	PVC (Yellow)	2 (Duplex)	.113″x.241″	225 lbs	112 lbs	2″	1.0″	11,200′	8 lbs/Mft	OFNR OFN FT4
			4	.325″	450 lbs	250 lbs	6.5″	3.3″	5000′	40 lbs/Mft	
			6	.377″	600 lbs	250 lbs	7.54″	3.8″	3509′	57 lbs/Mft	
			8	.445″	600 lbs	250 lbs	8.9″	4.5″	2564′	78 lbs/Mft	
			12	.567″	788 lbs	270 lbs	11.34″	5.7″	2097′	129 lbs/Mft	
	Breakout: Riser Rated										
FSBP** *=Number of Elements	Plenum PVC Tight Buffer Coating (.9mm OD) with Kevlar Filler & PVC Tube Jacket (2.5mm OD)	Plenum PVC (Yellow)	2 (Duplex)	.113″x.241″	225 lbs	112 lbs	2″	1.0″	11,200′	8 lbs/Mft	OFNP OFN FT6
			4	.272″	450 lbs	250 lbs	5.44″	2.7″	6667′	30 lbs/Mft	
			6	.323″	600 lbs	250 lbs	6.46″	3.2″	4545′	44 lbs/Mft	
			8	.400″	600 lbs	250 lbs	8.0″	4.0″	3077′	65 lbs/Mft	
			12	.523″	788 lbs	270 lbs	10.46″	5.2″	1728′	125 lbs/Mft	
	Breakout: Plenum Rated										

Please see fiber buffer color code chart #4 on page 94.





Tested and Verified

All Gepco network & control cables are tested and measured to verify that each meets not only the required standards for specific protocols and applications, but also additional critical specifications such as characteristic impedance, attenuation, capacitance and cross talk. To ensure reliable performance in high data-rate applications, all Gepco category twisted-pair products are ETL-verified to TIA/EIA 568A standards and sweep-tested for additional criteria such as ARC, PSARC, and PSNEXT up to, and often beyond, industry required bandwidths.

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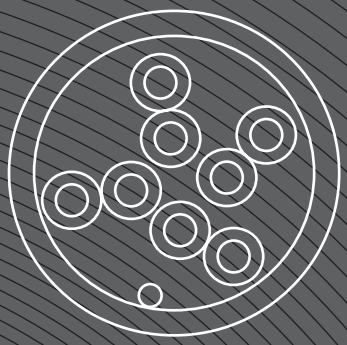
NETWORK &

Specialized Designs

Each series of Gepco network and control cable was designed to meet the requirements of specific data, LAN, network, or machine control formats. Because requirements for impedance, capacitance, cross talk, bandwidth, and conductor elements are unique for each format, Gepco provides a broad array of cable designs in both plenum and non-plenum versions. Several products have even been developed specifically for emerging and high data-rate formats such as total home automation, broadband video and Gigabit Ethernet.

High Bandwidth Specifications

Comprehensive Testing & Verification



Advances in technology have made possible such innovations as video streaming, automation, and high-speed networking for production facilities and businesses. However, these increasingly complex applications require high-bandwidth and unique cable designs in order to reliably transmit data.

Through constant development and expansion, Gepco network and control cables continue to achieve a high level of performance enabling infrastructure wiring for today's high-speed protocols such as Gibabit Ethernet and broadband video. Many Gepco network cables also feature specifications that exceed industry standards and are characterized to higher bandwidths for future upgrades. In addition, Gepco has developed several specialized cable designs to provide hybrid solutions for the latest integrated control systems used in corporate A/V and home automation systems. To accommodate the diversity of installation locations, most products are offered in UL-rated riser or plenum constructions.

CONTROL CABLE

In This Section:

Touch Panel Control (Crestron & AMX)
Low-capacitance Multi-pair
Two-pair Shielded
Category Unshielded Twisted Pair

Touch Panel Control (Crestron & AMX)

Features & Benefits

- Convenient All-In-One Construction
- Low-capacitance Shielded Data Pair
- Low-loss Power Conductors
- UL Riser or Plenum Rated

Applications

- Crestron Crestnet™
- AMX Ax-Link™
- Biamp Systems

Touch panel automation control cable for Crestron and AMX systems. The UNC series of control cables feature one shielded, low-capacitance pair for data, and one 18-gage pair for low-voltage power. This construction allows for both the data and power to be conveniently supplied by a single cable. UL rated, the UNC series is available in both Riser and Plenum 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
UNC220	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	Flame Retardant PVC	CL3R, FT-4	41 lbs/Mft
	Touch Panel Control Cable									
UNC220TS	2 (one power, one data)	.195"	22 AWG (7x30) Stranded BC	Foam FEP, .020" Black & White	100% Foil with 24 AWG (7x32) Stranded TC	18 AWG (16x30) Stranded BC	Plenum PVC, .009" Red & Black	Plenum PVC	CMP	29 lbs/Mft
	Touch Panel Control Cable: Plenum									

Data Pair Electrical Specifications

Part #	Impedance	Capacitance	Conductor DCR	Drain DCR	Velocity of Propogation
UNC220	95 Ω	12.5 pF/ft between conductors	15.3 Ω/Mft	23.8 Ω/Mft	79%
UNC220TS	95 Ω	12.5 pF/ft between conductors	15.3 Ω/Mft	23.8 Ω/Mft	82%

Power Pair Electrical Specifications

Part #	Capacitance	Conductor DCR
UNC220	31.7 pF/ft between conductors	6.2 Ω/Mft
UNC220TS	31.7 pF/ft between conductors	6.7 Ω/Mft

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 (type, wall thick)/ Color Code	Overall Shield	Overall Drain Wire	Jacket	UL Type
24 AWG (7x32) Stranded TC	PE, .015"/See Color Code Chart #3, Page 94	100% Foil	24 AWG (7x32) Stranded TC	PVC, Gray	CM

Mechanical Specifications (Individual)

Part #	# of Pairs	Nominal OD	Approx. Weight
6104	2	.234"	27 lbs/Mft
	Low Capacitance Two-pair		
6108	4	.277"	43 lbs/Mft
	Low Capacitance Four-pair		

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

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 share 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 (type, wall thick)/ Color Code	Shield	Common Drain Wire	Jacket (type, colors)	UL Type	Approx. Weight
6600	2	.173"	22 AWG (7x30) Stranded TC	PE, .008"/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"/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

Category Unshielded Twisted-pair

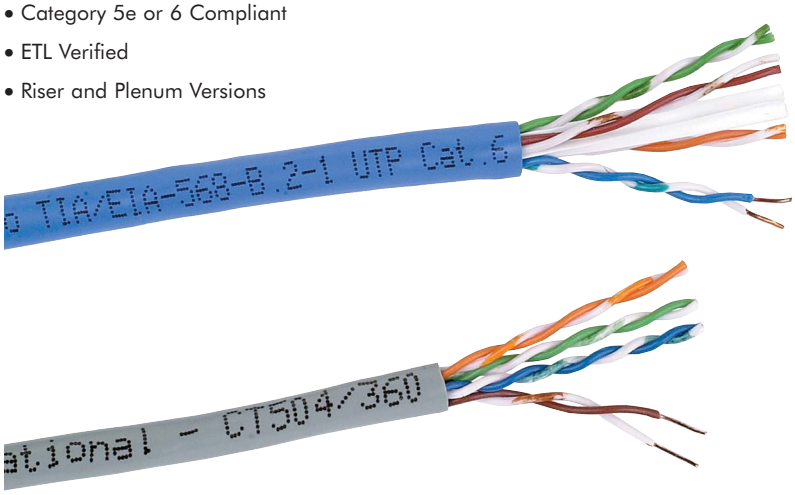
Features & Benefits

- Low Insertion Loss, Crosstalk, and Return Loss
- Precision 100Ω Impedance
- Four Twisted-pairs
- Characterized up to or Beyond TIA/EIA Standards
- Category 5e or 6 Compliant
- ETL Verified
- Riser and Plenum Versions

Applications

- Ethernet or Gigabit Ethernet
- High Data-rate Applications

Gepco category 5 and 6 cables feature designs that meet or exceed the latest TIA/EIA standards, thereby providing reliable interconnect solutions for the latest high speed protocols and formats. Each cable is designed to meet specific criteria for PSNEXT, PSARC, and RL (among others) up to 250MHz, 360Mhz, or 450MHz bandwidths. Unique to the category 6 is a thermoplastic pair separator that improves both PSUM and ELFEXT performance. Each cable type is UL rated and available in plenum or riser constructions to enable installation in a variety of locations.



Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation	Jacket	UL Type	Weight
CT504/360	4	.210″	24 AWG Solid BC	PE	PVC	CMR	27 lbs/Mft
	Category 5e Four-pair 360MHz						
CT504/360P	4	.180″	24 AWG Solid BC	Plenum Thermoplastic	Plenum PVC	CMP	23.5 lbs/Mft
	Category 5e Four-pair 360MHz: Plenum						
CT604/250	4	.240″	23 AWG Solid BC	PE	PVC with Central Spacer	CMR	27 lbs/Mft
	Category 6 Four-pair 250MHz						
CT604/250P	4	.220″	23 AWG Solid BC	Plenum Thermoplastic	Plenum PVC with Central Spacer	CMP	28 lbs/Mft
	Category 6 Four-pair 250MHz: Plenum						
CT604/450	4	.240″	23 AWG Solid BC	PE	PVC with Central Spacer	CMR	27 lbs/Mft
	Category 6 Four-pair 450MHz						
CT604/450P	4	.220″	23 AWG Solid BC	Plenum Thermoplastic	Plenum PVC with Central Spacer	CMP	28 lbs/Mft
	Category 6 Four-pair 450MHz: Plenum						

Mechanical Specifications

Part #	DCR Max	DCR Unbal. Max	Mutual Capac. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop. (Non-plenum, Plenum)	Standards
CT504/360 Series	28.6 Ω	5%	17 pF/ft	100 Ω	18 ns/100m	69%, 72%	Exceeds TIA/EIA-568-B.2 Cat 5e, ISO/IEC 11801

Freq. (MHz)	0.772	1	4	8	10	16	20	25	31.25	62.5	100	155	200	250	300	360
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	28.1	32.4	36.9	41.0	45.6
PSNEXT (dB)	70.0	68.3	59.3	54.8	53.3	50.3	48.8	47.3	45.9	41.4	38.3	35.5	33.8	32.3	31.2	30.0
PSACR (dB/100m)	68.2	66.3	55.2	49.0	46.8	42.1	39.5	36.9	34.2	24.4	16.3	7.4	1.4	-4.6	-9.8	-15.6
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	16.9	14.7	12.8	11.2	9.6
RL (dB)	---	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.8	18.0	17.3	16.8	16.2

Part #	DCR Max	DCR Unbal. Max	Mutual Capac. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop. (Non-plenum, Plenum)	Standards
CT604/250 Series	28.6 Ω	3%	17 pF/ft	100 Ω	18 ns/100m	69%, 72%	Exceeds TIA/EIA-568-B.2-1 Cat 6, ISO/IEC 11801

Freq. (MHz)	0.772	1	4	8	10	16	20	25	31.25	62.5	100	155	200	250
Insertion Loss (dB/100m)	1.8	2.0	3.8	5.3	6.0	7.6	8.5	9.5	10.7	15.4	19.8	25.2	29.0	32.8
PSNEXT (dB)	74.0	72.3	63.3	58.8	57.3	54.3	52.8	51.3	49.9	45.4	42.3	39.5	37.8	36.3
PSACR (dB/100m)	72.2	70.3	59.5	53.5	51.3	46.7	44.3	41.8	39.2	30.0	22.5	14.3	8.8	3.5
PSELFEXT (dB/100m)	67.0	64.8	52.7	46.7	44.8	40.7	38.7	36.8	34.9	28.8	24.8	20.9	18.7	16.8
RL (dB)	---	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.8	18.0	17.3

CT604/450 Series	28.6 Ω	3%	17 pF/ft	100 Ω	18 ns/100m	69%, 72%	Exceeds TIA/EIA-568-B.2-1 Cat 6, ISO/IEC 11801														
Freq. (MHz)	0.772	1	4	8	10	16	20	25	31.25	62.5	100	155	200	250	300	350	360	400	450		
Insertion Loss (dB/100m)	1.8	2.0	3.8	5.3	6.0	7.6	8.5	9.5	10.7	15.4	19.8	25.2	29.0	32.8	36.4	39.8	40.4	43.0	46.0		
PSNEXT (dB)	77.0	75.0	66.0	62.0	60.0	57.0	56.0	54.0	53.0	48.0	45.0	42.0	41.0	39.0	38.0	37.0	34.0	33.0	33.0		
PSACR (dB/100m)	75.2	73.0	62.2	56.7	54.0	49.4	47.5	44.5	42.3	32.6	25.2	16.8	12.0	6.2	1.6	-2.8	-6.4	-10.0	-13.0		
PSELFEXT (dB/100m)	70.0	68.0	56.0	50.0	48.0	44.0	42.0	40.0	38.0	32.0	28.0	24.0	22.0	20.0	18.0	17.0	---	---	---		
RL (dB)	---	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.8	18.0	17.3	16.8	16.3	16.2	15.9	15.5		

Metal Shell XLR with Chuck Type Strain Relief

Precision-tip ¼" TRS Plug

200MHz Crimp RCA

True 75Ω BNC

Premium Connectors

Gepco connectorized cables utilize premium connectors from leading manufacturers such as Neutrik, ADC, Switchcraft, and Kings. Unlike inferior types, these connectors have exacting socket or tip dimensions, precision electrical characteristics, greater mechanical strength, and superior strain-relief designs. As a result, mating action is more reliable and consistent, signal degradation is greatly reduced, and the operating life is increased. In addition, most standard Gepco connectorized cables feature tarnish-resistant, gold-plated contacts. As an added benefit, the connectors are not over-molded, enabling the user to make repairs or modifications if desired.

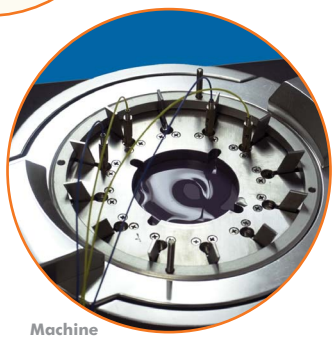
CONNECTORIZED AND

Hand Soldered, Crimped, or Machined Polished

Gepco single-channel audio cables are hand-soldered with the drain wire encased in sleeving or heat shrink for added isolation. This process ensures a more robust and secure termination that increases the life of the connection. Video connectors and many audio multi-pin connectors are crimp-terminated with gold-plated, machined-brass pins that have greater mechanical strength, precision dimensions, and tarnish resistance.

Gepco HD fiber-optic cables are machine-polished to achieve exceptionally low attenuation and return-loss (back reflection) performance. The fiber-optic contact termination process involves proprietary polishing methods and assembly procedures to maximize the connector performance and durability, while comprehensive optical and electrical testing for all production cables ensures a constant level of quality.

Hand Soldered



Machine Polished

Custom Assemblies Available

In addition to all standard connectorized cables, Gepco can produce cables to customer-specified requirements. Custom assemblies can range from unique microphone cable lengths to complex, custom harness jack-fields. Please consult a Gepco sales representative for details.

Custom Assemblies

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In addition to manufacturing bulk cable, Gepco also factory terminates cables with connectors in a variety of standard or custom configurations. Theses products range from audio microphone cables, digital multi-pin snakes, component video snakes, and hybrid fiber optic camera cables. All are assembled to stringent termination procedures, utilize premium grade connectors, and are tested and verified to achieve consistent quality.

To compliment these cables and offer complete interconnect solutions, Gepco also manufactures breakout boxes and rack units that interface with the connectorized cables. Gepco breakout systems all feature metal chassis, high quality connector components, and hand wiring and assembly and are exceptionally durable.

CABLES
BREAKOUT SYSTEMS

In This Section:

Microphone
Speaker
Guitar/Instrument
MIDI
GEP-FLEX Multi-pair Audio Snakes
X-BAND Multi-pair Audio Snakes
Stage Box Snakes
DT12 Snakes
DT12 Fanout
DT12 Breakout Box
110Ω Digital Audio Single Wire
110Ω Digital Audio Snakes
SPDIF
Word Clock
Single-channel Coax
SVHS
RGB Snakes
Ten-channel Video
Composite Audio/Video Snakes
VGA Breakout
Triax Camera
Hybrid Fiber Optic
Hybrid Fiber Breakout Box
Hybrid Electrical & Fiber Component Distribution Rack

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Microphone

Features & Benefits

- Neutrik XLRs with Gold-plated Contacts
- Hand Soldered
- Low Noise
- Flexible
- Durable
- Heavy 95% Braid Shield

Applications

- Microphone to Preamp Interconnection
- Studio Recording or Remote Production

Flexible low-noise XLR microphone cables for studio, stage, or location production. Gepco microphone cables all feature a high grade polyethylene dielectric, tight angle 95% tinned copper braid, and an extra-flexible or extra-rugged outer jacket. These materials achieve both low noise and durability, thereby making this series ideal for either studio recording or sound reinforcement applications. Gepco microphone cables are available in Thin Profile, Quad Star, Low-capacitance, and Heavy-duty versions.

Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
Quad Star Microphone *Low Noise Design for Enhanced Rejection in High RF Environments*				
MP1201	Neutrik Black & Gold XLRs NC3FX-B, NC3MX-B	10′, 15′, 20′, 25′, 35′, 50′, 100′	Black, Red, Yellow, Green, Blue & Gray	GMC5-(color)-(length)-MFNBG
High Bandwidth Microphone *Extra-low Capacitance*				
5522M	Neutrik Black & Gold XLRs NC3FX-B, NC3MX-B	10′, 15′, 20′, 25′, 35′, 50′, 100′	Black	GMC9-0-(length)-MFNBG
Heavy-duty Remote Microphone *Extra-durable Construction for Hostile Environments*				
M1042	Neutrik Black & Gold XLRs NC3FX-B, NC3MX-B	10′, 15′, 20′, 25′, 35′, 50′, 100′	Black	GMC3-0-(length)-MFNBG
Thin Profile Microphone *Reduced Diameter for Rack Patching and Low Weight*				
MP1022	Neutrik Black & Gold XLRs NC3FX-B, NC3MX-B	10′, 15′, 20′, 25′, 35′, 50′, 100′	Black, Red, Green & Blue	GMC2-(color)-(length)-MFNBG

Speaker

Features & Benefits

- Extra-fine Copper Conductors
- Oxygen Free (Dual-zip Versions)
- Low DC Resistance
- Wide Range of Connector Types
- Rugged, Portable Versions

Applications

- Speaker to Amplifier Interconnect
- For Portable, Outdoor, or Studio Use

High Definition speaker cable for control room monitoring, home theatre, or sound reinforcement applications. Cables are constructed from premium, large-gage, extra-fine copper stranding in translucent dual-zip or rugged overall jacketed designs. All Gepco speaker cable utilizes high-purity copper which ensures maximum power transfer and dampening performance.

Assemblies & Specifications

# of Conductors	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
Two-pole Speak-on *Flexible, Rugged 13 Gage Portable Cable*					
2	GSC132	Neutrick Speak-on (2) NL2MP	6′, 10′, 20′, 30′, 50′, 75′, 100′	Black	GHD2-(length)-NSP
Two-pole 1/4″ TS *Flexible, Rugged 13 Gage Portable Cable*					
2	GSC132	Switchcraft Jumbo 1/4″ TS (2) 188	6′, 10′, 20′, 30′, 50′, 75′, 100′	Black	GHD2-(length)-SQ
Four-pole Speak-on *Flexible, Rugged 13 Gage Portable Cable*					
4	GSC134	Neutrik Speak-on (2) NL4MP	6′, 10′, 20′, 30′, 50′, 75′, 100′	Black	GHD4-(length)-NSP
Eight-pole Speak-on *Flexible, Rugged 13 Gage Portable Cable*					
8	GSC138	Neutrik Speak-on (2) NL8MP	6′, 10′, 20′, 30′, 50′, 75′, 100′	Black	GHD8-(length)-NSP
High Definition: 1/4″ TS *12 Gage Oxygen-free, Extra-fine Copper Stranding*					
2	GSC122OFC	Switchcraft Jumbo 1/4″ TS (2) 188	3′, 6′, 10′, 20′	Translucent/ Copper	GHD12-(length)-Q-Q
High Definition: Binding Posts *12 Gage Oxygen-free, Extra-fine Copper Stranding*					
2	GSC122OFC	Dual Banana Gold-plated Plugs (2) 30-602	3′, 6′, 10′, 20′	Translucent/ Copper	GHD12-(length)-B-B
Extra Low-loss, High Definition: 1/4″ TS *10 Gage Oxygen-free, Extra-fine Copper Stranding*					
2	GSC102OFC	Switchcraft Jumbo 1/4″ TS (2) 188	3′, 6′, 10′, 20′	Translucent/ Copper	GHD10-(length)-Q-Q
Extra Low-loss, High Definition: Binding Posts *10 Gage Oxygen-free, Extra-fine Copper Stranding*					
2	GSC102OFC	Dual Banana Gold-plated Plugs (2) 30-602	3′, 6′, 10′, 20′	Translucent/ Copper	GHD10-(length)-B-B

Guitar/Instrument

Features & Benefits

- Low Capacitance
- Heavy Shielding
- Low Noise
- Gold-plated ¼" Plug with Black Metal Shell
- Hand Soldered

Applications

- Guitar to Amplifier Interconnect
- Unbalanced, Line Level Instrument Interconnect

Low-capacitance, heavily shielded, unbalanced cable for guitar or instrument applications. Extra-thick, high-grade polyethylene insulation and 20 gage conductor reduce both the attenuation and capacitance of the cable. This results in a more transparent signal that does not suffer from the dulling effects of high capacitive loading typically found in conventional guitar cable. Extra-heavy 95% braid shield and conductive PVC wrap minimizes both RF/EMI and triboelectric handling noise.

Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
20 Gage Low-capacitance Instrument Cable *Durable Construction, Low-loss Conductor & Dielectric, 95% Copper Braid Shield*				
GLC20	(2) ¼" TS Male Plugs, Black Shell, Gold-plated Contacts	3', 6', 10', 15', 20', 25'	Black	GLC-(length)-x

Part # Code x = Connector Option (S = Straight Plug Both Sides, R = Right Angle to Straight Plug)

MIDI

Features & Benefits

- Metal Neutrik 5 pin DIN
- Gold-plated Contacts
- Heavy-duty Quad or Low-Loss, Extended Distance Versions
- Hand Soldered

Applications

- MIDI Data Interconnect

Premium MIDI cable constructed from rugged quad-star microphone or low-loss digital audio data cable. Quad-star version features all five pins active for extended distance runs, while the low-cap digital audio version minimizes attenuation allowing for extended distance runs. Both types are terminated with hand soldered Neutrik DIN connectors that are more durable and repairable than conventional over-molded IDC connectors.

Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
Quad MIDI Cable: Five Active Pins *Durable 24 Gage x 4 Conductors & 95% Copper Braid*				
MP1201	Neutrik 5 Pin Din (2) NYS322	5', 10', 15', 20', 25'	Black, Red, Yellow, Green, Blue & Gray	GMD2-(color)-(length)
Extended Distance, Low-capacitance MIDI Cable *Low-capacitance Dielectric for Longer Runs*				
5526	Neutrik 5 Pin Din (2) NYS322	5', 10', 15', 20', 25', 35', 50'	Black	GMD4-(length)

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GEP-FLEX Multi-pair Audio Snakes

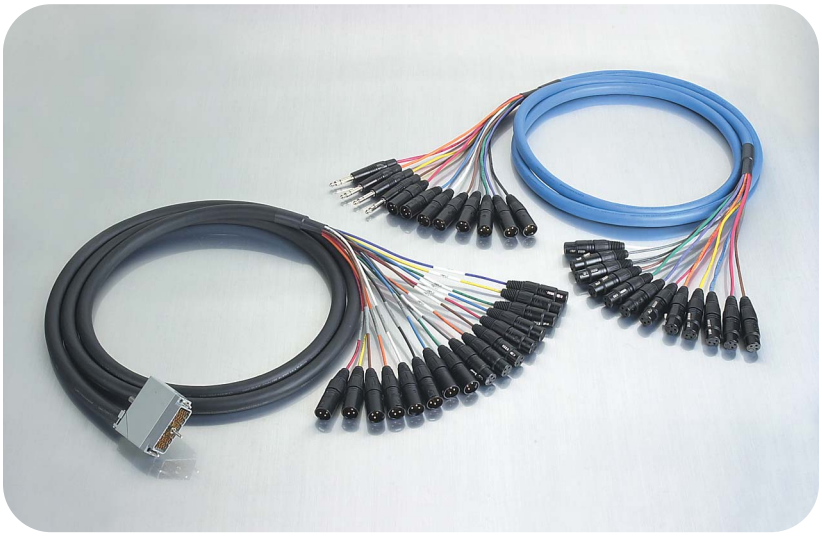
Features & Benefits

- Pair Jackets for Low Crosstalk
- Low Noise
- Color Coded and Numbered Channels
- Flexible
- Durable
- Premium Neutrik or Metal Shell Multi-pin Connectors
- Hand Soldered or Crimped

Applications

- Mic or Line Level
- Rack to Rack Interconnect
- Balanced Multi-pin Breakout
- Portable or Studio Snakes

Flexible multi-pair audio snake for microphone or line level applications. Gepco GA series cables feature high grade polyethylene insulation and precision twisting for low loss and low noise. Each channel is individually shielded and jacketed for minimal crosstalk, increased durability, and easy channel identification. Outer GEP-FLEX jacket is rugged, UL listed, and flexible. Available in standard 22 gage and thin-profile 24 gage constructions, GEP-FLEX multi-pair can be terminated with a wide variety of single-channel or multi-pin connectors such as Neutrik XLR and ¼" Phone Plugs, EDAC and D-Sub Type Connectors.



Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	# of Channels	Available Cable Colors	Part #
GEP-FLEX 22 Gage Analog Audio Snake *Flexible, Low-noise Multi-pair*					
GA618GFC Series	Varies, See Connector Options Below	10', 15', 25', 35', 50', 75', 100', 150', or Custom	2, 4, 6, 8, 12, 16, 20, 26, or 32	Blue Master Jacket Color Coded Pairs (Base 10)	SK6##-(length)-xx-xx
GEP-FLEX 24 Gage Analog Audio Snake *Extra-flexible, Low-noise Multi-pair*					
GA724GFC Series	Varies, See Connector Options Below	10', 15', 25', 35', 50', 75', 100', 150', or Custom	2, 4, 8, 12, 16, 26, or 32	Black Master Jacket Color Coded Pairs (Base 10)	SK7##-(length)-xx-xx

Part # Code

##= Number of Channels (Pairs)
xx = Connector Option for Each End (Must specify option for both sides.)

Connector Options

Neutrik Black & Gold Male XLRs NC3MX-B	XM
Neutrik Black & Gold Female XLRs NC3FX-B	XF
Neutrik Black & Gold XLRs, Combination of Male & Female on Same End	XC# (where # designates the number of female connectors)
Neutrik Black & Gold Male XLRs, and 1/4" TRS NP3C on Same End	XMQ# (where # designates the number of 1/4" connectors)
Neutrik Black & Gold Female XLRs, and 1/4" TRS NP3C on Same End	XFQ# (where # designates the number of 1/4" connectors)
Neutrik 1/4" TRS, NP3C	QM
D-Sub 25 Male, AMP Metal Hood, Thumb Screws, Gold Contacts	D25M
D-Sub 25 Female, AMP Metal Hood, Thumb Screws, Gold Contacts	D25F
EDAC 38-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E38M
EDAC 38-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E38F
EDAC 56-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E56M
EDAC 56-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E56F
EDAC 90-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E90M
EDAC 90-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E90F
EDAC 120-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E12M
EDAC 120-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E12F

Reverse gender and panel mount EDAC connectors also available; please consult factory for details.

Not all pair count cable types may be used with all multi-pin connector types.

X-BAND Multi-pair Audio Snakes

Features & Benefits

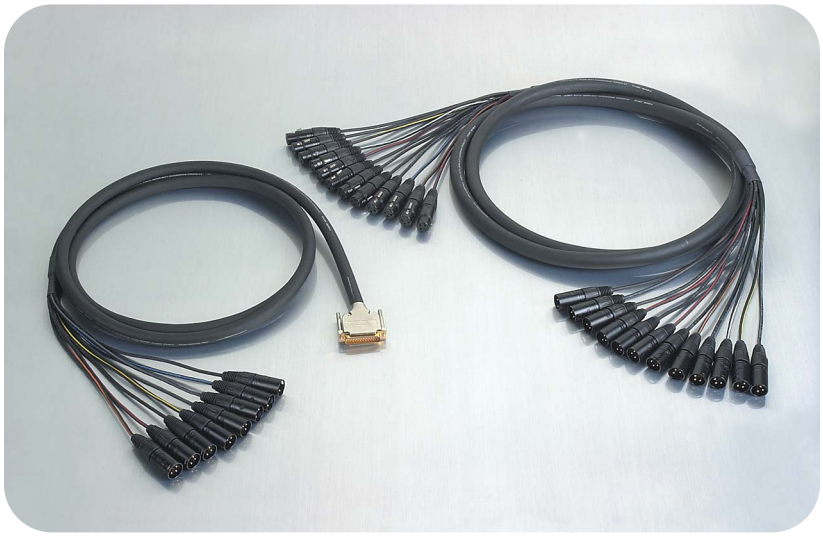
- Ultra-flexible
- Extended Bandwidth/Low Capacitance
- Superior Noise Rejection
- Braided Pair Shields
- Durable
- Color Coded Stripe and Numbered Channels
- Gold-plated Contacts
- Hand Soldered Neutrik and/or Metal Shell Multi-pin Connectors

Applications

- Mic or Line Level
- Rack to Rack Interconnect
- Balanced Multi-pin Breakout
- Portable or Studio Snakes

Ultra-flexible, extended bandwidth, low-noise X-BAND series multi-pair audio cable terminated with Neutrik XLRs, EDAC, or D-Sub multi-pin connectors. The X-BAND series of analog audio cables feature a uncompromised design for the ultimate in sonic purity and noise rejection making them ideal for use in critical recording or live sound applications.

X-BAND multi-pair is extremely flexible and flaccid, yet maintains a high degree of durability. The unique foam polypropylene insulation in X-BAND has an extremely low dielectric constant which lowers the capacitance and extends the bandwidth of the cable, while the exacting pair twisting, braid shielding, and pair jackets achieve excellent Common Mode Noise Rejection and ultra-low cross-talk between channels.



Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	# of Channels	Available Cable Colors	Part #
X-BAND Analog Audio Snake *Ultra-flexible, Extended Bandwidth, Low-noise Mult-pair*					
XB4 Series	Varies, See Connector Options Below	10', 15', 25', 35', 50', 75', 100', 150', or Custom	4, 8, 12, or 16	Black Master Jacket Black Pairs with Color-Coded Stripe (Base 10)	SKX##-(length)-xx-xx

Part # Code

= Number of Channels (Pairs)
xx = Connector Option for Each End (Must specify option for both sides.)

Connector Options

Neutrik Black & Gold Male XLR NC3MX-B	XM
Neutrik Black & Gold Female XLR NC3FX-B	XF
Neutrik Black & Gold XLRs, Combination of Male & Female on Same End	XC# (where # designates the number of female connectors)
Neutrik Black & Gold Male XLRs, and 1/4" TRS NP3C on Same End	XMQ# (where # designates the number of 1/4" connectors)
Neutrik Black & Gold Female XLRs, and 1/4" TRS NP3C on Same End	XFQ# (where # designates the number of 1/4" connectors)
Neutrik 1/4" TRS, NP3C	QM
D-Sub 25 Male, AMP Metal Hood, Thumb Screws, Gold Contacts	D25M
D-Sub 25 Female, AMP Metal Hood, Thumb Screws, Gold Contacts	D25F
EDAC 38-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E38M
EDAC 38-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E38F
EDAC 56-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E56M
EDAC 56-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E56F
EDAC 90-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E90M
EDAC 90-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E90F
EDAC 120-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E12M
EDAC 120-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E12F

Reverse gender and panel mount EDAC connectors also available; please consult factory for details.
Not all pair count cable types may be used with all multi-pin connector types.

Stage Box Snakes

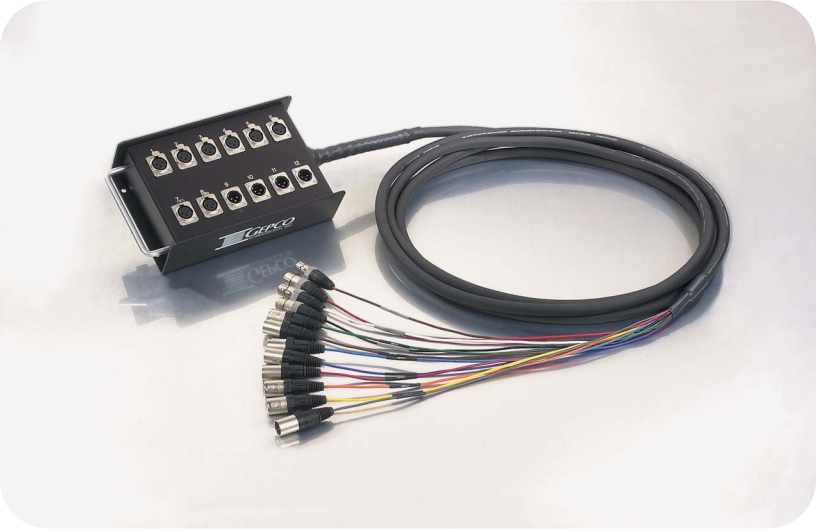
Features & Benefits

- Hand Soldered
- Low Crosstalk
- Durable
- Metal Neutrik Connectors
- Easy Channel Identification

Applications

- Mic or Line Level
- Studio or Stage to Console/Preamp Interconnect

Durable and economical hard-wired stage box with GEP-FLEX audio multi-pair and Neutrik connectors. Box chassis is constructed from 1/8" aluminum and metal square flange Neutrik XLRs that are durable and eliminate the potential for "push through". Individually shielded and jacketed audio channels achieve low crosstalk, low noise, and greater durability compared to conventional multi-pair cable. Each channel is color coded and numbered for easy identification.



Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	# of Channels (Inputs x Returns)	Chassis	Available Cable Colors	Part #
GEP-FLEX Stage Box Snake *Extra-flexible, Low-noise Multi-pair*						
GA724GFC	Chassis End: Neutrik NC3FD-L-1 Female XLR Inputs Neutrik NC3MD-L-1 Male XLR or Neutrik NJ3FP6C Female 1/4" TRS Returns (if any) Fanout End: Neutrik NC3MX Male XLR Outputs Neutrik NC3FX Female XLR or Neutrik NP3C 1/4" TRS Returns (if any)	50', 100', 150',or Custom	8x0, 8x4, 12x0, 12x4, 16x0, 16x8, 24x0, 24x8, 32x0	1/8" Aluminum (Black Anodized) with Rubber Feet, Metal Handle, and Steel Mesh Cord Grip	Black Master Jacket Color Coded Pairs (Base 10)	SBX##r-(length)t

Part # Code

= Number of Input Channels
r = Number of Returns
t = Type of Return Connector (X = XLR, Q = 1/4" TRS))

Other configurations also available as a custom build. Please consult factory for details.

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DT12 Snakes

Features & Benefits

- Low Noise
- Flexible
- Environmentally Sealed
- FK37 Pinout Compatible
- Crack Proof Insulator
- All-metal Body Connector with Gold-plated Contacts
- Integrated Kellem Stain Relief

Applications

- Twelve Channel Balanced Audio
- Mic or Line Level

Twelve-channel audio snake terminated with Gepco V37 all-metal DT12 compatible multi-pin connector. Each channel is individually shielded and jacketed (GA series only) with the drain wire terminated to a discrete contact, i.e. grounds are not bussed, for exceptionally low crosstalk and isolation. Outer Jacket is either an all-weather, low temperature, abrasion-resistant GEP-FLEX Thermoplastic, or extra rugged Polyurethane. New reverse thread, high torque backshell prevents accidental connector loosening and damage, while maintaining a complete weather-tight seal.

Assemblies & Specifications

# of Pairs	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
GEP-FLEX Analog Audio Twelve-pair DT12 Snake *Flexible, Low-noise 22 Gage Multi-pair*					
12	GA61812GFC	Gepco All-metal 37-pin Circular DT12 Connector (1) V37M, (1) V37F	50', 100', 165', 250', 330', 500'	Blue	DTSNK(length)MF61812G
Thin Profile GEP-FLEX Analog Audio Twelve-pair DT12 Snake *Extra-flexible, Low-noise 24 Gage Multi-pair*					
12	GA72412GFC	Gepco All-metal 37-pin Circular DT12 Connector (1) V37M, (1) V37F	50', 100', 165', 250', 330', 500'	Black	DTSNK(length)MF72412G
Heavy-duty Analog Audio Twelve-pair DT12 Snake *Extra-tough Polyurethane Jacket and 22 Gage Conductors*					
12	DT61812	Gepco All-metal 37-pin Circular DT12 Connector (1) V37M, (1) V37F	50', 100', 165', 250', 330', 500'	Black	SNK(length)MFDT61812G

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DT12 Fanout

Features & Benefits

- All-metal Body V37 Connector
- Neutrik XLRs
- Gold-plated Contacts
- Environmentally Sealed
- FK37 Pinout Compatible
- Breakout with Rugged MP1022 Mic Cable

Applications

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

Twelve-channel audio breakout from a V37 all-metal DT12 multi-pin connector to twelve Neutrik XLRs. Cable for each channel consists of a durable 24 gage twisted pair that is shielded with a 95% copper braid and jacketed with a durable and flexible matte PVC compound. New reverse thread, high torque, V37 backshell eliminates accidental connector loosening and damage, while maintaining a weather-tight seal.

Assemblies & Specifications

# of Pairs	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
DT12 Input Fanout: V37 Male to XLR Female *Multi-pin Breakout with 24 Gage Microphone Cable*					
12	MP1022	Gepco All-metal DT12 & Neutrik Black & Gold XLRs (1) V37M, (12) NC3FX-B	3′	Black (Blue, Red or Green Available on Special Order)	DTFAN36F12MG
DT12 Output Fanout: V37 Female to XLR Male *Multi-pin Breakout with 24 Gage Microphone Cable*					
12	MP1022	Gepco All-metal DT12 & Neutrik Black & Gold XLRs (1) V37F, (12) NC3MX-B	3′	Black (Blue, Red or Green Available on Special Order)	DTFAN36M12FG

DT12 Breakout Box

Features & Benefits

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

Applications

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

Twelve-channel audio breakout from a DT12 multi-pin connector to twelve Neutrik panel mount XLRs in a heavy gage 1/8" thick extruded aluminum chassis. A recessed top plate design protects connectors, while the modular construction and internal slots allow for custom options such as transformer isolated splits. Available in a standard "one-in, twelve-out" configuration, or with multi-pin and/or XLR parallel passive splits.

Assemblies & Specifications

# of Channels	Connectors	Chassis Dimensions	Chassis Material	Comments	Part #
Standard DT12 Breakout Box *Male Multi-pin to 12 Female XLRs*					
12	(12) Neutrik NC3FD-L-1-B Female XLRs (1) Gepco Male V37MP DT12 Multi-pin Connector	4.5" High x 5.25" Wide x 9" Long	1/8" Extruded Aluminum, Black Anodized with Black & Gold Logo Strips	Wired "straight through" from XLRs to DT12. Ground lifts or transformer isolation available as a custom option.	DTBXS912FNMNG
Feed Through DT12 Breakout Box *Male Multi-pin to 12 Female XLRs with Multi-pin Feedthrough*					
12	(12) Neutrik NC3FD-L-1-B Female XLRs (1) Gepco Male V37MP DT12 Multi-pin Connector (1) Gepco Female V37FP DT12 Multi-pin Connector	4.5" High x 5.25" Wide x 9" Long	1/8" Extruded Aluminum, Black Anodized with Black & Gold Logo Strips		DTBXS912FNMFG
Feed Through/XLR Split DT12 Breakout Box *Male Multi-pin to 12 Female XLRs with Male XLR-split and Multi-pin Feedthrough*					
12	(12) Neutrik NC3FD-L-1-B Female XLRs (12) Neutrik NC3MD-L-1-B Male XLRs (1) Gepco Male V37MP DT12 Multi-pin Connector (1) Gepco Female V37FP DT12 Multi-pin Connector	4.5" High x 5.25" Wide x 16" Long	1/8" Extruded Aluminum, Black Anodized with Black & Gold Logo Strips		DTBXS1624FYMFG

V37 dustcaps must be ordered separately.
Other configurations, ground lifts, or transformer isolation available as a custom option. Please consult factory for details.

110Ω Digital Audio Single Wire

Features & Benefits

- Ultra-flexible
- Precision 110Ω Impedance
- Characterized to 25MHz for 192kHz Sampling Rates
- Ultra-low Attenuation & Pulse Rounding
- Low Jitter
- Wide Bandwidth
- Neutrik XLR Connectors with Gold-plated Contacts

Applications

- AES/EBU Digital Audio Interconnect
- Rack Patching or Portable Use

Precision impedance, low-loss twisted-pair cable for two-channel 110Ω AES/EBU format digital audio. Each oxygen-free conductor of the twisted-pair is insulated with a low k constant, gas-injected foam polyethylene or foam polypropylene dielectric. Pairs are precision twisted to a tight lay with non-conductive polyethylene filler rods and shielded with a copper serve or braid shield. These construction techniques lower the attenuation and stabilize the impedance, thereby reducing the occurrence of cable induced bit-errors and jitter. Ends are terminated with Neutrik black & gold XLR connectors.

Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
Low-loss AES/EBU Single-pair: Extra-flexible *Low Attenuation for Extended Distance Runs or High Definition Sampling Rates*				
5596M	Neutrik Black & Gold XLRs NC3FX-B, NC3MX-B	5′, 10′, 15′, 25′, 35′, 50′, 75′, 100′	Violet	DWB110-(length)
Thin Profile AES/EBU Single-pair: Extra-flexible *Reduced Diameter for Standard Length Runs*				
5526	Neutrik Black & Gold XLRs NC3FX-B, NC3MX-B	5′, 10′, 15′, 25′, 35′, 50′	Black	GMC11-0-(length)-MFNBG

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110Ω Digital Audio Snakes

Features & Benefits

- Flexible
- Precision 110Ω Impedance
- Characterized to 25MHz for 192kHz Sampling Rates
- Ultra-low Attenuation & Pulse Rounding
- Low Jitter
- Wide Bandwidth
- Multi-pin and/or XLR Connectors
- Gold-plated Contacts

Applications

- AES/EBU Digital Audio Interconnect
- XLR Snakes or Multi-channel Breakout

110Ω twisted-pair snake for transmission of multiple channels of 110 AES/EBU digital audio data. Each conductor of the twisted-pair is insulated with a low dielectric constant, gas-injected foam polyethylene or foam polypropylene insulation. Pairs are precision twisted to a tight lay with a non-conductive polyethylene filler rod, shielded, and isolated with color-coded pair jackets. These construction techniques lower the attenuation, minimizes crosstalk, and stabilizes the impedance, thereby reducing the occurrence of cable induced bit-errors and jitter. Ends are terminated with EDAC multi-pin, D-Sub multi-pin, or Neutrik black & gold XLR connectors. Ideal for multi-channel AES breakout from AD/DA converters, digital mixers, or digital multi-track recorders.

Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	# of Channels	Available Cable Colors	Part #
Extended Distance, Low-loss 24 Gage Digital Audio Snake *Low Attenuation for Extended Distance Runs or High Definition Sampling Rates*					
5596GFC Series	Varies, See Connector Options Below	10', 15', 25', 35', 50', 75', 100', 150', or Custom	4, 8, or 12	Violet Master Jacket Color Coded Pairs (Base 10)	SKDE##-(length)-xx-xx
Thin Profile 26 Gage Digital Audio Snake *Reduced Diameter for Standard Length Runs*					
5526GFC Series	Varies, See Connector Options Below	10', 15', 25', 35', 50', 75', 100', 150', or Custom	4, 8, 12, 16, or 24	Gray Master Jacket Color Coded Pairs (Base 10)	SKDT##-(length)-xx-xx

Part # Code

= Number of Channels (Pairs)
xx= Connector Option for Each End (Must specify option for both sides.)

Connector Options

Neutrik Black & Gold Male XLR NC3MX-B	XM
Neutrik Black & Gold Female XLR NC3FX-B	XF
Neutrik Black & Gold XLRs, Combination of Male & Female on Same End	XC# (where # designates the number of female connectors)
D-Sub 25 Male, AMP Metal Hood, Thumb Screws, Gold Contacts	D25M
D-Sub 25 Female, AMP Metal Hood, Thumb Screws, Gold Contacts	D25F
EDAC 38-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E38M
EDAC 38-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E38F
EDAC 56-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E56M
EDAC 56-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E56F
EDAC 90-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E90M
EDAC 90-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E90F
EDAC 120-pin Male with Metal Hood, Actuating Screw, Gold Contacts	E12M
EDAC 120-pin Female with Metal Hood, Fixed Nut, Gold Contacts	E12F

Reverse gender and panel mount EDAC connectors also available; please consult factory for details.
Not all pair count cable types may be used with all multi-pin connector types.

SPDIF

Features & Benefits

- Ultra-flexible
- Precision 75Ω Impedance
- Ultra-low Attenuation & Pulse Rounding
- Low Jitter
- 200MHz Bandwidth RCA Connectors
- Rubber Flex-relief Boot
- Gold-plated Contacts

Applications

- SPDIF Digital Audio Interconnect

Flexible, low-loss, 75Ω precision SPDIF coax terminated with high bandwidth Canare RCA crimp-on connectors. The VE61859M coax used in this cable features a stranded center conductor, single braid shield, and an ultra-flexible PVC jacket for excellent flexibility and flex-life. A proprietary, low-loss, gas-injected polyethylene is used for the insulating dielectric. This precision dielectric reduces the occurrence of cable-induced bit-rate errors and jitter in the data stream through exacting dimensions, uniform cell structure, minimized pulse rounding, and reduced internal reflections. Unlike conventional RCAs, the Canare crimp style RCAs with a high bandwidth PPO Noryl dielectric are rated up 200MHz for digital data and video transmission.

Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
Precision 75 Ω SPDIF Cable: Extra-flexible *Low-loss, Gas-injected Dielectric RG59 Video Coax*				
VE61859M	Canare Gold Crimp 75 Ω RCAs (2) RCAP-C4F	5', 10', 15', 25', 35', 50'	Black	DSC75-(length)

Word Clock

Features & Benefits

- Low Jitter and Loss
- Precision 75Ω Impedance
- Broadband Shielding
- 3GHz Bandwidth
- Precision, High Frequency BNC Connectors
- Rubber Flex-relief Boots
- Gold-plated Contacts

Applications

- Word Clock Distribution
- AES3id 75Ω Interconnects
- SPDIF

Ultra-stable, precision 75Ω coax with high-bandwidth BNC connectors for Word Clock distribution in critical audio applications. These assemblies use 3GHz High-definition coax that feature Gepco's proprietary gas-injected foam polyethylene dielectric and a precision-drawn, solid copper conductor. These processed materials ensure an exacting 75Ω impedance, low structural return loss (internal reflections), and minimal attenuation. As a result, the occurrence of cable-induced pulse rounding and jitter is greatly reduced. For comprehensive broadband shielding, a dual shield, foil and braid is used to protect against both high-frequency RF and EMI noise and interference. Cable ends are terminated with Kings 2065 series high-bandwidth BNC video connectors and a flex-relief boot.

Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
75 Ω Low Jitter Word Clock Coax: Standard Size *Precision 20 Gage High Definition 3GHz Coax*				
VPM2000	Kings 3GHz True 75 Ω High-def BNCs 2065-2-9 with Rubber Boots	2′, 4′, 6′, 10′, 15′	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, or White	GWC1-0-(length)
75 Ω Low Jitter Word Clock Coax: Low-loss *Precision 18 Gage High Definition 3GHz Coax*				
VSD2001	Kings 3GHz True 75 Ω High-def BNCs 2065-10-9 with Rubber Boots	2′, 4′, 6′, 10′, 15′, 20′, 25′	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, or White	GWC2-0-(length)
75 Ω Low Jitter Word Clock Coax: Ultra Low-loss *Precision 16 Gage High Definition 3GHz Coax for Extended Distance*				
VHD7000	Kings 3GHz True 75 Ω High-def BNCs 2065-12-9 with Rubber Boots	6′, 10′, 15′,20′, 25′, 35′, 50′	Black	GWC3-0-(length)

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Single-channel Coax

Features & Benefits

- Low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz or 1GHz Cable Bandwidth
- Multiple Cable Sizes & Connector Types
- Precision, High Frequency Connectors
- Rubber Flex-relief Boots
- Gold-plated Pins

Applications

- SDI Digital Video
- HD Video (Select Versions)
- High Resolution Analog Video

Low-loss, high-bandwidth 75Ω coax with precision BNC, RCA, or F-type connectors for High-resolution analog, serial digital or high-definition video interconnect. All cables are constructed from Gepco's series of high-definition 3GHz or extra-flexible 1GHz coax, and terminated with crimp-on, high-bandwidth video connectors with rubber flex-relief boots.

The 3GHz high-definition coax cables feature a proprietary gas-injected, foam polyethylene dielectric and a precision-drawn, solid copper conductor. These processed materials ensure an exacting 75Ω impedance, low structural return loss, and minimal attenuation, thereby reducing the occurrence of pulse rounding and bit-rate errors. For comprehensive broadband shielding, the 3GHz HD series also features a dual shield to protect against both high-frequency RF and EMI noise and interference.

Both the cable and connector components are guaranteed to specific tolerances for return-loss, bandwidth, attenuation and impedance. As a result, picture quality is enhanced and digital data is transmitted with greater accuracy.

Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Signal Formats	Part #
High Definition RG6 75 Ω Coax *Gas-injected Dielectric, Dual Shield, 20 Gage Conductor*					
VSD2001	Varies, See Connector Options Below (All Come Standard with Rubber Boot)	10', 25', 50', 75', 100', or Custom	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, or White	HD Digital, SDI Digital, or High Resolution Analog	GVC11-(color)-length-xx
High Definition RG59 75 Ω Coax *Gas-injected Dielectric, Dual Shield, 18 Gage Conductor*					
VPM2000	Varies, See Connector Options Below (All Come Standard with Rubber Boot)	10', 25', 50', 75', 100', or Custom	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, or White	HD Digital, SDI Digital, or High Resolution Analog	GVC6-(color)-(length)-xx
Ultra-flexible Low-loss 75 Ω Coax *Gas-injected Dielectric, Single Braid Shield, Stranded 22 Gage Conductor*					
VE61859M	Varies, See Connector Options Below (All Come Standard with Rubber Boot)	10', 25', 50', 75', 100', or Custom	Black	High Resolution Analog	GVC5-(color)-(length)-xx
Flexible Heavy-duty 75 Ω Coax *Solid Dielectric, Double Braid Shield, Stranded 22 Gage Conductor*					
VP618M	Varies, See Connector Options Below (All Come Standard with Rubber Boot)	10', 25', 50', 75', 100', or Custom	Black	High Resolution Analog	GVC14-(color)-(length)-xx

Part # Code xx= Connector Option

Connector Options

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

Most common cable types used for connectorized cables are listed. Connectorized versions of any other Gepco coax products are also available. Please consult factory for details.

SVHS

Features & Benefits

- Dual Coax Construction
- Low Attenuation
- Dual Shield
- Precision 75Ω Impedance
- 1GHz Cable Bandwidth
- Metal Connector Shell
- Gold-plated Contacts

Applications

- High Resolution SVHS Interconnect
- SVHS to Chrominance and Luminance Components

Dual miniature, low-loss 75Ω coax for high resolution SVHS interconnect, terminated with metal-shell, four-pin mini DIN connectors with gold-plated contacts.

Unlike smaller gage, twisted-pair SVHS cable without a specific impedance, Gepco's larger 25 gage coax with low-loss foam dielectric has a precision 75Ω impedance and low attenuation. This construction reduces the occurrence of ghosting, picture loss, and signal degradation. In addition, the lower attenuation of the cable allows for longer runs compared to conventional SVHS cables.

Assemblies & Specifications

# of Channels	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
High Resolution SVHS Cable *Flexible 25 Gage 1GHz Dual Coax with Metal 4 Pin Mini-DINs*					
2	VDM250D	Gold-plated 4 Pin Mini-DIN's with Metal Shells	3', 6', 10', 25', 50'	Black	SVHS1-(length)
High Resolution SVHS to BNC Breakout Cable *Flexible 25 Gage 1GHz Dual Coax with Metal 4 Pin Mini-DIN & BNCs*					
2	VDM250D	Gold-plated 4 Pin Mini-DIN with Metal Shell to (2) Kings 2065-11-9 True 75 Ω 3GHz BNCs	3', 6', 10', 25', 50'	Black	SVHS2-(length)

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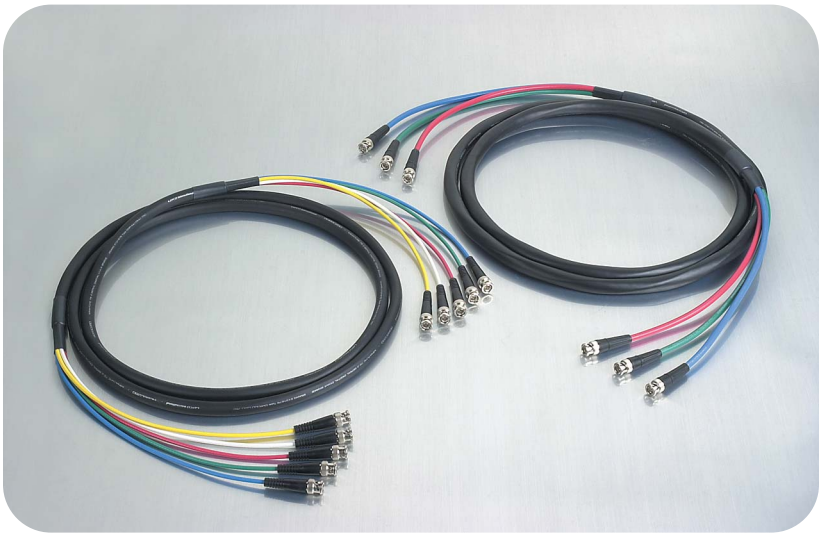
RGB Snakes

Features & Benefits

- Flexible, Riser or Plenum Jacket
- HD RG6 or Miniature Size Versions
- Low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz or 1GHz Cable Bandwidth
- High Bandwidth BNC Connectors
- Rubber Flex-relief Boots
- Gold-plated Pins

Applications

- Component Analog Video
- Multi-channel SDI Digital Video



Three to six channel, 75Ω video coax snake for high resolution, component analog video or multiple channels of digital SDI or HD video. All cable elements are constructed from Gepco's series of High Definition 3GHz or miniature 1GHz coax, and terminated with high-bandwidth BNC connectors with rubber flex-relief boots.

The high-definition series coax utilizes Gepco's proprietary, gas-injected, foam polyethylene dielectric and a precision-drawn, solid copper conductor; while the miniature series uses a smaller stranded conductor with foam polyethylene or plenum rated dielectric for excellent flexibility and flex-life. For effective broadband shielding, a dual shield is used to protect against both high-frequency RF and EMI noise and interference.

The cable and connector components both feature reduced attenuation, low return loss, a precision 75Ω impedance, high-bandwidth, and are guaranteed to specific tolerances. As a result, picture quality is enhanced, digital data is transmitted with greater accuracy, and cable runs can be extended.

Assemblies & Specifications

# of Channels	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
Miniature RGB Snake *BNC to BNC with 25 Gage Low-loss Coax*					
3	RGB250	Kings 3GHz True 75 Ω High-Def BNCs 2065-11-9 with Rubber Boot	6', 10', 25', 50', 75', 100'	Black Jacket (Individual Coaxes Are Color Coded)	RGB1-(length)
Miniature RGBS Snake *BNC to BNC with 25 Gage Low-loss Coax*					
4	RGBS250	Kings 3GHz True 75 Ω High-Def BNCs 2065-11-9 with Rubber Boot	6', 10', 25', 50', 75', 100'	Black Jacket (Individual Coaxes Are Color Coded)	RGBS1-(length)
Miniature RGBSC Snake *BNC to BNC with 25 Gage Low-loss Coax*					
5	RGBSC250	Kings 3GHz True 75 Ω High-Def BNCs 2065-11-9 with Rubber Boot	6', 10', 25', 50', 75', 100'	Black Jacket (Individual Coaxes Are Color Coded)	RGBSC1-(length)
Miniature RGBHVC Snake *BNC to BNC with 25 Gage Low-loss Coax*					
6	RGBHVC250	Kings 3GHz True 75 Ω High-Def BNCs 2065-11-9 with Rubber Boot	6', 10', 25', 50', 75', 100'	Black Jacket (Individual Coaxes Are Color Coded)	RGBHVC1-(length)
Plenum Miniature RGBSC Snake *BNC to BNC with 26 Gage Low-loss Coax*					
5	RGBSC260TS	ADC True 75 Ω 3GHz High-Def BNCs BNC-16 with Shrink Tube Strain Relief	6', 10', 25', 50', 75', 100'	Black Jacket (Individual Coaxes Are Color Coded)	RGBSCP-(length)
High Definition RGB Snake *BNC to BNC with 18 Gage RG6 3GHz Gas-injected HD Coax*					
3	VS32001	Kings 3GHz True 75 Ω High-Def BNCs 2065-10-9 with Rubber Boot	25', 50', 75', 100', 150', 200',	Black Jacket (Individual Coaxes Are Color Coded)	DVS3-(length)
High Definition RGBS Snake *BNC to BNC with 18 Gage RG6 3GHz Gas-injected HD Coax*					
4	VS42001	Kings 3GHz True 75 Ω High-Def BNCs 2065-10-9 with Rubber Boot	25', 50', 75', 100', 150', 200',	Black Jacket (Individual Coaxes Are Color Coded)	DVS4-(length)
High Definition RGBSC Snake *BNC to BNC with 18 Gage RG6 3GHz Gas-injected HD Coax*					
5	VS52001	Kings 3GHz True 75 Ω High-Def BNCs 2065-10-9 with Rubber Boot	25', 50', 75', 100', 150', 200',	Black Jacket (Individual Coaxes Are Color Coded)	DVS5-(length)

Ten-channel Video

Features & Benefits

- Flexible, All-weather Jacket
- HD RG6 or HD Miniature Size Versions
- Low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz Cable Bandwidth
- High Bandwidth BNC Connectors
- Rubber Flex-relief Boots
- Gold-plated Pins

Applications

- High Resolution Analog Video
- SDI or HD Digital Video
- Portable or Remote Use

Ten-channel, 75Ω video coax snake under a single, all-weather jacket for multiple channels of digital HD, SDI or high-resolution analog video transmission. All cable elements are constructed from Gepco's series of high definition or miniature 3GHz coax, and are terminated with high-bandwidth BNC connectors with rubber flex-relief boots.

Both the standard size and miniature series utilize Gepco's proprietary, gas-injected, foam polyethylene dielectric, a precision-drawn, solid copper conductor, and a dual broadband shield. These materials lower the attenuation, minimize return loss, extend the bandwidth, and protect against both high-frequency RF and EMI noise and interference. Equally critical, the high-bandwidth, dual-crimp BNCs also achieve exceptional electrical specifications and tolerances. The combined effect of both precision elements results in enhanced picture quality, accurate digital data transmission, and the option of extended cable runs.

In addition to the individual coax jackets, a flexible, low brittle temperature, abrasion-resistant master jacket is used. These mechanical properties allow for the cable to be used in remote, hostile, and cold weather environments.

Assemblies & Specifications

# of Channels	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
Miniature High Definition 10-channel Snake *BNC to BNC with 23 Gage 3GHz Gas-injected HD Coax*					
10	VS10230	Kings 3GHz True 75 Ω High-Def BNCs 2065-11-9 with Rubber Boot	50', 100', 150'	Black Jacket (Individual Coaxes Are Color Coded)	VMS10-(length)
High Definition 10-channel Snake *BNC to BNC with 20 Gage RG59 3GHz Gas-injected HD Coax*					
10	VS102000	Kings 3GHz True 75 Ω High-Def BNCs 2065-2-9 with Rubber Boot	50', 100', 150'	Black Jacket (Individual Coaxes Are Color Coded)	VSC10-(length)

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Composite Audio/Video Snakes

Features & Benefits

- Flexible, All-weather Jacket
- Standard or Thin-profile Versions
- HD RG59 or Miniature Size Coax
- Low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz or 1GHz Cable Bandwidth
- BNC, RCA, F-Type, TRS or XLR Connectors

Applications

- High Resolution Analog Video
- Digital Video
- Mic or Line Level Audio
- ENG, EFP, or Remote Production

Two, low-loss 75Ω coaxes with two to five balanced audio channels under a single, all-weather jacket for remote production, EFP, or ENG applications. Coaxial cable elements are constructed from Gepco's series of high definition 3GHz or miniature 1GHz coax, while the audio channels are 61801EZ low-noise, balanced audio pairs. Cable ends can be terminated with a variety of BNC, RCA, F-Type, TRS, and XLR style connectors.

The 75Ω coax elements utilize Gepco's low-loss foam dielectric, a precision-diameter copper conductor, and dual broadband shielding, enabling transmission of either high resolution analog video, SDI digital video, or HD video signals (standard size only for HD). Audio pairs are twisted and shielded with large 22 gage conductors for low-loss, excellent CMNR, and minimal crosstalk. Both video and audio elements share an overall master jacket that is flexible, abrasion-resistant and has a low brittle temperature point. These properties permit use in remote, hostile, or cold weather environments.

Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	# of Channels	Available Cable Colors	Part #
Low-loss Composite A/V Snake *20 Gage RG59 Coax with 22 Gage Balanced Audio Pairs*					
VA2/_ Series	Varies, See Connector Options Below	10', 15', 25', 35', 50', 75', 100', 150', or Custom	2 Video 75 Ω Coaxes, 3, 4, or 5 Balanced Audio Pairs	Black Master Jacket Black & White Coax Jackets Base 10 Color Coded Audio Pairs	SAV#-(length)-xx-yy
Thin Profile Composite A/V Snake *25 Gage Miniature Coax with 22 Gage Balanced Audio Pairs*					
VA2/_TP Series	Varies, See Connector Options Below	10', 15', 25', 35', 50', 75', 100', 150', or Custom	2 Video 75 Ω Coaxes, 2 or 3 Balanced Audio Pairs	Black Master Jacket Black & White Coax Jackets Base 10 Color Coded Audio Pairs	SAV#TP-(length)-xx-yy

Part # Code

= Number of Audio Channels (Pairs)
xx = Audio Connector Option
yy = Video Connector Option

Video Connector Options

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

Audio Connector Options

Neutrik Black & Gold XLRs, Male NC3MX-B One Side, Female NC3FX-B Other Side	XMF
Neutrik Black & Gold XLRs, Combination of Male & Females on Each End	XC* (where * designates number of returns)
Neutrik 1/4" TRS, NP3C Male Connectors on Both Ends	QM

Other combinations also available as a custom option. Please consult factory for details.

VGA Breakout

Features & Benefits

- Flexible
- Riser or Plenum Versions
- Miniature 75Ω Coax
- Low Attenuation & Return Loss
- 1GHz Cable Bandwidth
- High Density D-Sub 15-pin with Metal Shell
- High Bandwidth BNC Connectors
- Rubber Flex-relief Boots
- Gold-plated Pins

Applications

- High Resolution VGA to BNC Component Breakout

Five element, multi-core coax cable with high-density 15-pin D-sub to five BNC connectors for VGA to component video breakout applications. Breakout cable is constructed from Gepco miniature 1GHz coax, and terminated with a metal shell, gold-pin D-sub and high-bandwidth BNC connectors with rubber flex-relief boots.

Unlike standard VGA twisted-pair cables, Gepco breakout VGA cables utilize precision 75Ω coax with a low-loss foam dielectric and a dual, broadband shield. This construction greatly reduces the occurrence of ghosting, picture loss, and signal degradation. In addition, the lower attenuation of the cable allows for longer runs compared to conventional VGA cables.

Assemblies & Specifications

Number of Channels	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
VGA to Component Video *Flexible 25 Gage 1GHz Coax Snake: DB15HD to 5 BNCs*					
5	RGBSC250	High Density 15-pin D-Sub Male or Female to (5) Kings 3GHz True 75 Ω BNCs 2065-11-9 (BNC) with Rubber Boots	6', 10', 25', 50'	Black Jacket (Individual Coaxes Are Color Coded)	SVB1-(length)-x
Plenum VGA to Component Video *Flexible 26 Gage Plenum Coax Snake: DB15HD to 5 BNCs*					
5	RGBSC260TS	High Density 15-pin D-Sub Male or Female to (5) ADC 3GHz True 75 Ω BNCs BNC-16 with Shrink Tube Strain Relief	6', 10', 25', 50'	White Jacket (Individual Coaxes Are Color Coded)	SVB2-(length)-x

Part # Code x = Gender of D-Sub (M = Male, F = Female)

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Triax Camera

Features & Benefits

- Flexible, All-weather Jacket
- Durable
- Gas-injected, Crush-resistant Dielectric
- Low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz Cable Bandwidth
- True 75Ω Triax Connector
- Gold-plated Contacts

Applications

- Triax Camera to CCU Interconnect
- Analog or Digital Video

Low-loss triax terminated with precision 75Ω impedance King's Tri-Loc™ or ADC Pro-Ax™ connectors. As with the HD coax series, the foam dielectric in Gepco triax is extruded though a proprietary blending and gas-injection process that achieves a precision 75Ω impedance, low attenuation and return loss, superior aging characteristics, and a high level of crush resistance. Unique to triax are two electrically isolated braids to meet the requirements of camera to CCU interconnect.

For the overall cable jacket, a flexible, low brittle temperature, abrasion-resistant TPE compound is used. These mechanical properties allow for the triax to be used in remote, hostile, and cold weather environments in addition to conventional indoor and studio applications.

Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
Flexible RG59 Triax Camera Cable *All-weather Construction, 20 Gage Solid Conductor*				
LVT61859	Kings Tri-Loc™ Connectors (One Male, One Female) 7705-2, 7703-2, or ADC Pro-Ax™ Connectors (One Male, One Female) TCJ-B38, TCP-B38	50′, 100′, 165′, 250′, 330′, 500′	Black, Red, Yellow, Green, Blue & Violet	GTC59A-(color)-(length)-xxx
Flexible RG59 Triax Camera Cable: Stranded *All-weather Construction, 22 Gage Stranded Conductor*				
LVT61859S	Kings Tri-Loc™ Connectors (One Male, One Female) 7705-2, 7703-2, or ADC Pro-Ax™ Connectors (One Male, One Female) TCJ-B38, TCP-B38	50′, 100′, 165′, 250′, 330′, 500′	Black, Red & Blue	GTC59B-(color)-(length)-xxx
Low-loss Flexible RG11 Triax Camera Cable *All-weather Construction, 14 Gage Stranded Conductor*				
LVT61811	Kings Tri-Loc™ Connectors (One Male, One Female) 7705-3, 7703-3, or ADC Pro-Ax™ Connectors (One Male, One Female) TCJ-C12, TCP-C12	100′, 165′,250′, 330′, 500′, 100′	Black, Red, Yellow, Green & Blue	GTC11A-(color)-(length)-xxx

Part # Code xxx = No suffix designates Kings Tri-Loc™ Connectors; "ADC" in place of "xxx" designates ADC Pro-Ax™ Connectors

Hybrid Fiber Optic

Features & Benefits

- Machine-polished Fiber Contacts
- Low Insertion & Return Loss
- Heat Resistant Insulation
- Steel Strength Member
- Flexible PVC or Polyurethane Jacket
- Kellem™ Cord Grip & Adapter (12mm versions)
- Metal Dust Caps
- Lemo 3k Series Connectors
- SMPTE 311M & 304M Compliant

Applications

- High Definition Camera to CCU Interconnect

SMPTE 311M, single-mode fiber optic and copper hybrid camera cable, terminated with Lemo SMPTE 304M connectors (including metal dust caps) for high definition video camera to CCU interconnect.

Gepco HD hybrid fiber utilizes two single-mode fibers for high bit-rate data transmission and copper elements for auxiliary and signal electrical connections. Each fiber is coated with a special nylon based compound (for three times the breaking strength as conventional coated fiber) and Kevlar wrapped with a PVC jacket for additional strength (12mm cables only). All Gepco HD camera cables also now feature a heat resistant copper insulation material for more dependable performance in high temperature environments. Shielding and grounding from the camera to CCU is provided by a dense 95% tinned copper braid, while a flexible PVC or extra-rugged polyurethane jacket adds overall protection and durability.

The face end of each F2 fiber contact in the connector is machine polished through a unique, multi-stage polishing process. This process achieves excellent optical clarity and alignment, thereby reducing return loss and minimizing insertion loss.

The heavy-duty 12mm cable assemblies also come standard with a Gepco backnut adapter and a Kellem™ cord grip at each connector end for added strain, flex, and pulling relief. These components, combined with special termination techniques, greatly improve the life and durability of the cable.

Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
Ultra-flexible 9.2mm Hybrid Fiber Camera Cable *Single Mode SMPTE 311M Type Cable with Lemo 3K Series Connectors*				
HDC920	Lemo 3K Series FGW & PHW Connectors with Rubber Boot & Metal Dust Caps	50', 100', 164', 250', 328', 500', 656'	Black	GHF92A-0-(length)
Permanent Install 9.2mm Hybrid Fiber Camera Cable *Single Mode SMPTE 311M Type Cable with Lemo 3K Series Connectors*				
HDC920R	Lemo 3K Series FGW & PHW Connectors with Rubber Boot & Metal Dust Caps	50', 100', 164', 250', 328', 500', 656'	Black	GHF92B-0-(length)
Flexible 12mm Hybrid Fiber Camera Cable *Single Mode SMPTE 311M Type Cable with Lemo 3K Series Connectors*				
HDC120	Lemo 3K Series FGW & PHW Connectors with Custom Gepco Kellem Strain Reliefs & Metal Dust Caps	50', 100', 164', 250', 328', 500', 656'	Black	GHF12A-0-(length)
Heavy-duty 12mm Hybrid Fiber Camera Cable *Single Mode SMPTE 311M Type Cable with Lemo 3K Series Connectors*				
HDC120P	Lemo 3K Series FGW & PHW Connectors with Custom Gepco Kellem Strain Reliefs & Metal Dust Caps	50', 100', 164', 250', 328', 500', 656'	Black	GHF12B-0-(length)

Note: Cable is also available with bulkhead mount connectors. Consult factory for details.

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Hybrid Fiber Breakout Box

Features & Benefits

- Hybrid Fiber Breakout to Discrete ST Fiber Connectors
- Machine-polished Optical Contacts
- Ceramic Contacts & Sleeves
- Replaceable Fiber Jumpers
- Rugged Aluminum Chassis
- Optional XLR connectors
- Includes Metal Dust Caps

Applications

- Breakout of Lemo Terminated Hybrid Fiber Cables to Standard ST Fiber Connectors
- Interconnection of Other Single-mode Fiber Optic Video or Audio Formats over Hybrid Camera Cables
- Optical & Signal Only Interconnect from HD Camera to CCU Over Separate Fiber Optic and Electrical Cables when Cameras are Locally Powered

Portable, hybrid fiber to ST breakout box. Each hybrid connector breaks out to two ST female connectors on a recessed, protective metal top plate. All optical components feature machine polished ceramic ferules and ceramic sleeves for superior optical alignment and low loss, while the chassis is constructed from heavy gage anodized aluminum. In addition to the standard configuration, the HBB breakout box is also available with XLR connectors that are hard wired to the signal components of the Lemo hybrid connectors.

Assemblies & Specifications

# of Channels	Connectors	Chassis Dimensions	Chassis Material	Optical Specifications	Comments	Part #
Hybrid Fiber to ST Breakout Box *Three Channel, Six Fiber Elements*						
3	(6) Amphenol ST Barrels (Metal Housing, Ceramic Sleeve) Internally Coupled with Metal Body ST Connectors with Ceramic Ferules (3) Lemo 3K.93C Series SMPTE 304M Hybrid Fiber Connectors (Plug or Socket) with Metal Dust Caps	4.5" High x 5.25" Wide x 9" Long	1/8" Extruded Aluminum (Black Anodized) with Black & Gold Logo Strips	Single-mode Optical Fiber, 8.3μ Mode Field, 125μ Cladding Diameter >45dB @ 1310nm Return Loss ST Contacts (PC Machine-polished) >45dB @ 1310nm Return Loss Lemo F2 Contacts (Machine-polished) <0.50dB @ 1310nm Total Insertion Loss per Fiber Element Standard model uses Chromatic (Plasma) optical fiber. Other brands available on special order for component matching to other systems.	Lemo connectors on Hybrid Connector break out to two female ST connectors per channel. All electrical contacts in Hybrid connector are unterminated	HBB903x
Hybrid Fiber to ST & XLR Breakout Box *Three Channel, Six Fiber Elements*						
3	(6) Amphenol ST Barrels (Metal Housing, Ceramic Sleeve) Internally Coupled with Metal Body ST Connectors with Ceramic Ferules (3) Neutrik NC3FD-L-1-B Female XLRs or (3) Neutrik NC3MD-L-1-B Male XLRs (3) Lemo 3K.93C Series SMPTE 304M Hybrid Fiber Connectors (Plug or Socket) with Metal Dust Caps	4.5" High x 5.25" Wide x 9" Long	1/8" Extruded Aluminum (Black Anodized) with Black & Gold Logo Strips	Single-mode Optical Fiber, 8.3μ Mode Field, 125μ Cladding Diameter >45dB @ 1310nm Return Loss ST Contacts (PC Machine-polished) >45dB @ 1310nm Return Loss Lemo F2 Contacts (Machine-polished) <0.50 dB @ 1310nm Total Insertion Loss per Fiber Element Standard model uses Chromatic (Plasma) optical fiber. Other brands available on special order for component matching to other systems.	Lemo connectors break out to 2 female ST connectors per channel. Signal pins and ground of Hybrid Connector terminate to one XLR per channel (pin 1 ground, pin 2 red, pin 3 gray). Auxiliary hybrid contacts are unterminated.	HBB903xyy

Part # Code

x = Gender of Lemo Connectors (P = Plug, S = Socket)
yy = Gender of XLR Connectors (XF = Female XLRs, XM = Male XLRs)
Other configurations also available as a custom build. Please consult factory for details.

Hybrid Electrical & Fiber Component Distribution Rack

Features & Benefits

- Breaks Out Lemo HD Camera Connectors to Discrete Electrical & Fiber Connectors
- Machine-polished Optical Contacts & Ceramic Sleeves
- Metal 5-pin CPC Connectors
- Simplified Field Termination & Installation
- Replaceable Fiber Jumpers
- Rugged Steel Chassis

Applications

- Distribution of Hybrid Fiber Camera Cables with Lemo 3K Series Connectors Over Separate Electrical and Single-mode Fiber Optic Cables
- Permanent Installation

Single-space rack chassis for electrical and optical breakout from Lemo SMPTE 304M hybrid camera connectors. When used in conjunction with Single-mode distribution fiber and Gepco Electrical HD cable, the HDR rack system offers an alternative for permanent installation High Definition camera to CCU infrastructure wiring. The HDR rack system utilizes metal CPC connectors and industry standard ST fiber connectors that can be field terminated with greater ease. All optical components feature machine polished ceramic ferules and ceramic sleeves for superior optical alignment and low-loss. Unlike cable terminated hybrid connectors, the HDR internal fiber jumpers can be easily replaced when damaged or worn, eliminating the costly need to completely replace connectors. The HDR chassis is constructed from rugged, powder-coated steel and is available in three or four-channel versions, as well as other custom configurations upon request.

Assemblies & Specifications

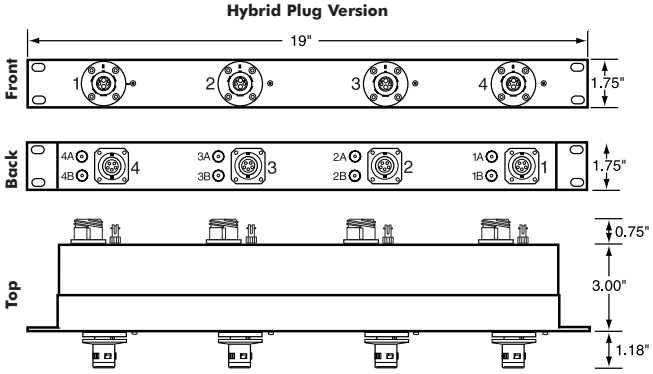
# of Channels	Connectors	Chassis Dimensions	Chassis Material	Optical Specifications	Comments	Part #
Hybrid Fiber Distribution Rack *Lemo to ST and Electrical Breakout*						
3 or 4	Front: *(1 per Channel)* Lemo 3K.93C Series SMPTE 304M Hybrid Fiber Connectors (Plug or Socket) with Metal Dust Caps Rear: *(2 per Channel)* Amphenol ST Barrels (Ceramic Sleeve) Internally Coupled to Metal Body ST Connectors *(1 per Channel)* AMP Metal-shell 5-pin CPC Receptacle	1.75" High (1 RU) x 19" Wide x 3" Deep	Steel (16 Gage, Powder Coated Black)	Single-mode Optical Fiber, 8.3μ Mode Field, 125μ Cladding Diameter >45dB @ 1310nm Return Loss ST Contacts (PC Machine-polished) >45dB @ 1310nm Return Loss Lemo F2 Contacts (Machine-polished) <0.50 dB @ 1310nm Total Insertion Loss per Fiber Element Standard model uses Chromatic (Plasma) optical fiber. Other brands available by special order for component matching to other systems.	Lemo F2 fiber contacts in the hybrid connectors break out to two female ST connectors per channel. Auxiliary contacts, signal contacts and ground break out to the five contacts in the CPC connector. Three channel HDR1 can be expanded to four.	HDR1-#x

Other configurations also available as a custom build. Please consult factory for details.

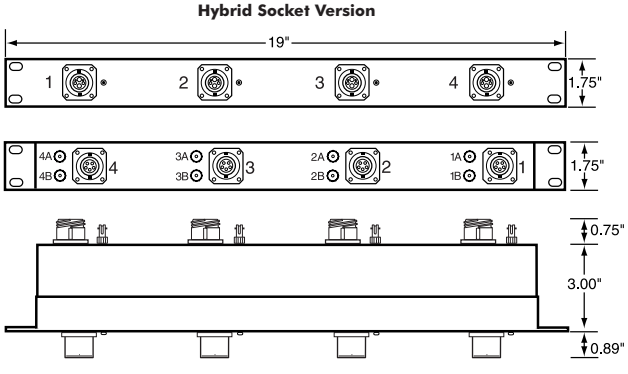
Part # Code

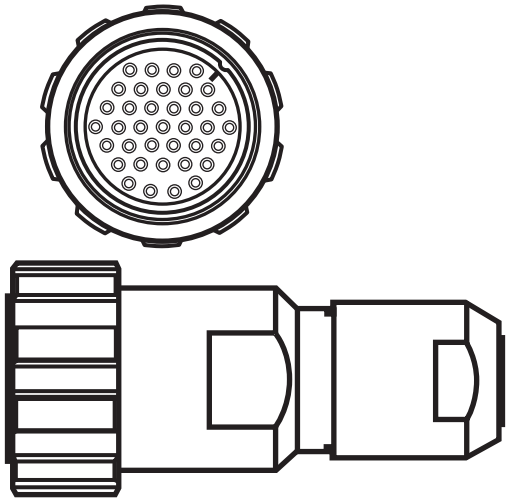
x = Gender of Lemo Connectors (P = Plug, S = Socket)
# = Number of Channels

Hybrid Plug Version



Hybrid Socket Version





Innovative Designs

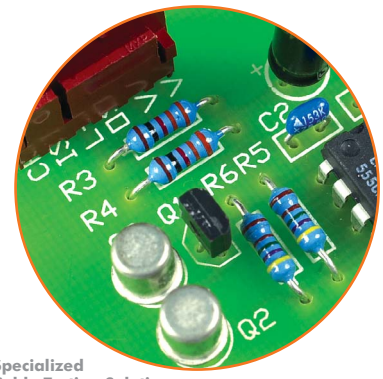
Gepco connectors have been designed to achieve durability and ruggedness, yet maintain streamlined functionality. Through use of intricately machined, hard-anodized aluminum components, Gepco connectors have excellent strength, accommodate a wide range of cable sizes and strain-relief options, and are weather-resistant.

Gepco adapters are manufactured from components made by leading connector manufacturers combined with other custom, machined-aluminum components. These adapters offer unique solutions by enabling interfacing options not commonly available.

CONNECTORS

Field Testing Solutions

Installers and technicians frequently need to perform test and measurement in the field, either at a job site or venue. The connector-specific, field-testing solutions offered by Gepco allow for quick verification and exact troubleshooting of complex triax or DT12 multi-pair cable interconnects. Both are based upon custom circuit designs and offer quick visual feedback of all possible combinations of shorts and opens. As a result, the user can easily verify cable functionality and diagnose the necessary repairs if any need to be made.



Specialized
Cable Testing Solutions

Detailed
Fault Location

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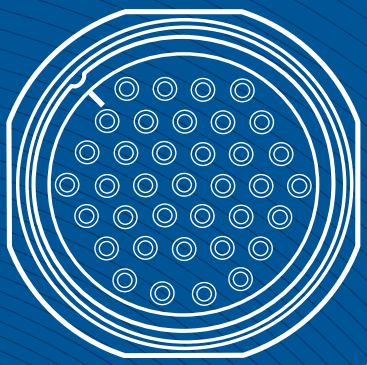
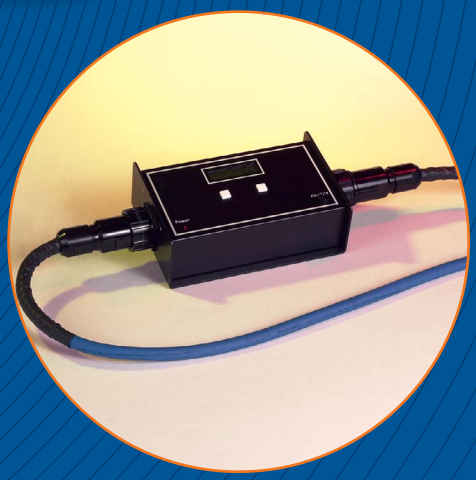


In an ongoing effort to develop solutions for the ever-changing broadcast and pro-audio industry, Gepco has designed and produced a distinctive series of connectors, adapters and testers. The recently redesigned series of all-metal DT12 connectors has solidified what was already an industry standard for remote twelve-channel audio interconnects. Utilizing a combination of connectors and custom-machined components, Gepco's exclusive series of audio and video adapters provide solutions for unique applications. In addition to these connectors and adapters, Gepco manufactures two format-specific cable testers that enable users to quickly field test and verify either triax or DT12 type cables.

AND TESTERS



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DT12 Connectors

Features & Benefits

- All-metal Backshell & Backnut
- High-torque, Reverse Thread Prevents Accidental Loosening
- Gold-plated Contacts
- Chip & Crack-proof Insulator
- Weather-tight Seal
- Accepts Large or Small Cable Diameters with or without Cord Grips
- Wrench Flats
- Low Profile, Light Weight

Applications

- Twelve Channel Balanced Audio Interconnect
- Mic or Line Level
- Mateable with other DT12 Type Connectors

DT12 Connectors	
Part #	**Description**
V37M	Cable Mount Male
V37F	Cable Mount Female
V37BMM	Male to Male In-line Barrel
V37BFF	Female to Female In-line Barrel
V37MP	Panel Mount Male
V37FP	Panel Mount Female

DT12 Connector Technical Specifications	
Solder Contacts	16 AWG Max Wire Size, Copper Alloy, Screw Machined, Gold-plated
Cable Diameter Range (For C/M Connector Only)	Note: For Cable Mount Connector Only .790" - .835" without Bushing or Cord Grip .585" - .635" with Standard Included Bushing .475" - .530" with Optional VB530 Bushing Cables with a diameter in-between ranges can be fitted through use of heatshrink.
Shell	Hard Anodized Aluminum, Black
Insulator	Neoprene
Current Rating	13 Amperes Rated, 22 Amperes Max
Voltage Rating	700 volts DC, 500 volts AC
Test Voltage	2000 volts AC RMS

The V37 series of multi-pin connectors feature thirty-seven gold-plated contacts in a low-profile, all-metal, universal-termination design for use in twelve-channel DT12 analog audio applications.

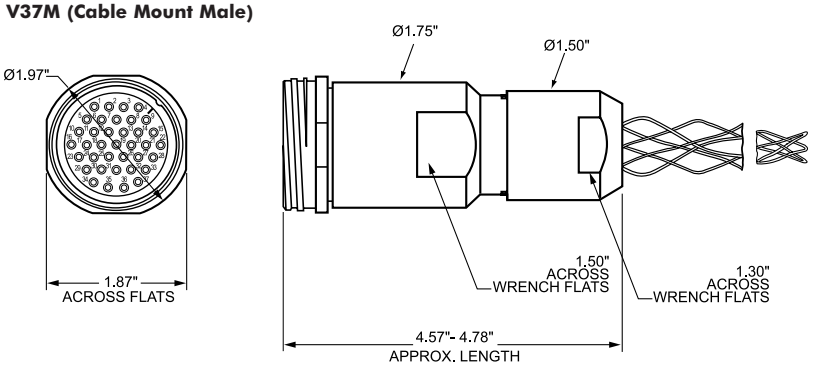
All exterior components of the V37 are made of hard-anodized machined-aluminum with unique left-hand (reverse) threaded backshell and backnut sections. This all-metal construction is extremely durable and crush-resistant, making the V37 ideal for use in mobile production and hostile environments. When terminated, the metal-on-metal thread grip coupled with the reverse thread mechanism prevents accidental loosening of the backshell. Unlike set-screw type designs, a terminated V37 is both completely secure and weather-tight. In addition, wrench flats are now present for easy assembly and disassembly.

The V37 features a new universal cable design that enables it to be terminated to either large or small diameter cables (with or without steel mesh cord grips) or XLR fanouts. It has a resizable multi-piece gland/strain relief that completely seals the interior of the connector from outside elements. The metal backnut is internally multi-stepped to accept both large and small metal cord grips (or none if desired). This unique design seats the cord grip after the strain-relief, allowing the quality of the seal to remain uncompromised. Unlike other designs, the V37 taper compression seal does not need to be discarded in lieu of the inferior seal found in metal cord grips.

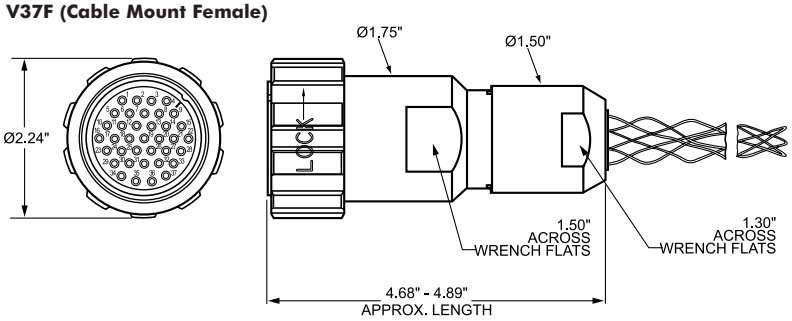
In addition to the functional improvements, the V37 series features both a thin profile and low weight. In fact, the new V37 connectors weigh only about an ounce more than the original VKC thermoplastic connectors. As with the original Gepco DT12 connectors, the new V37 has a crack-proof neoprene insulator, gold-plated solder contacts and is mateable with all existing DT12 type connectors.

DT12 Technical Drawings & Accessories

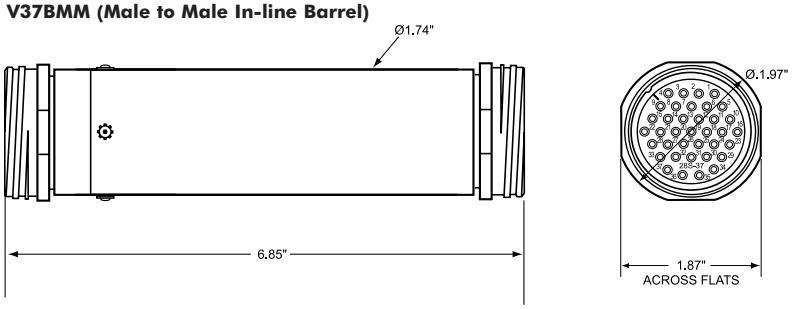
V37M (Cable Mount Male)



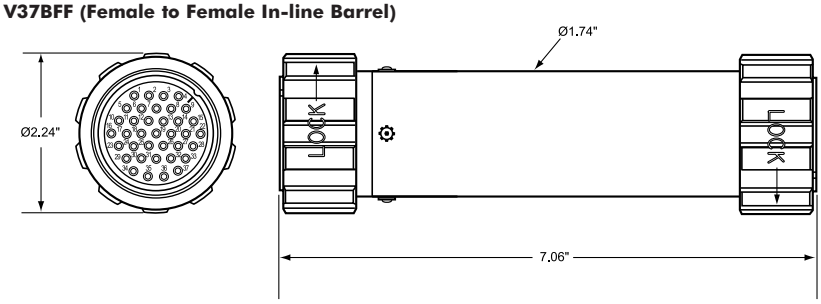
V37F (Cable Mount Female)



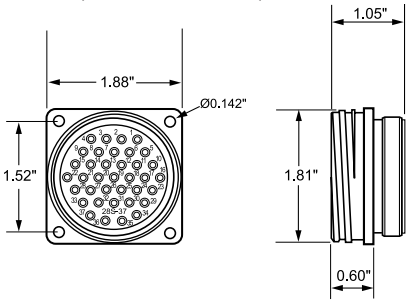
V37BMM (Male to Male In-line Barrel)



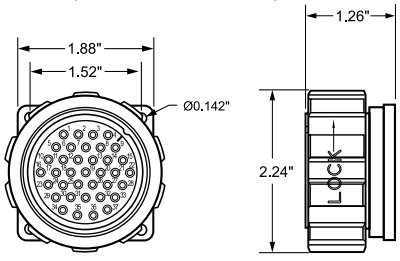
V37BFF (Female to Female In-line Barrel)



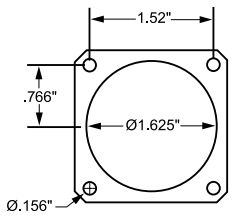
V37MP (Panel Mount Male)



V37FP (Panel Mount Female)



Panel Mount Connector Mounting Hole



DT12 Accesories

Part #	Description
Dust Caps	
VKC28TF	Dust Cap for Male Connectors
VKC28TV	Dust Cap for Female Connectors
Bushing	
VB530	Optional Bushing for Small O.D. Cables (.475" - .530")
Replacement Contacts	
27901T12	Gold Solder Pins
27951T12	Gold Solder Contacts
Steel Mesh Cord Grips	
044-16-008	.475"—.530" Cable O.D. For Use with Optional VB530 Bushing
044-16-012	.585"—.635" Cable O.D. For Use with Standard Included Bushing
Boots	
35B	Rubber Boot for Cable Mount Connectors

DT12 Tooling

11-7345	Insertion Tool for Solder Contacts
A43240VKC	Contact Extraction Tool Kit
F99343	Contact Installation Support Plates
27977-16T50	Guide Pin for Sockets

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XLR Binding Post Adapters

• Features & Benefits

- Heavy-duty Construction
- Cable Can be Terminated by Bare Wire, Spade Lugs, or Banana Plugs
- Color Coded Insulators

Applications

- For Quick Termination of XLR Connectors in Remote Production Applications

Heavy-duty metal Switchcraft A3M or A3F XLR connector with metal adapter and three color-coded binding posts for high, low and ground terminals. With Gepco XLR binding post adapters, cable can be terminated to a balanced XLR connector in the field with bare wire when a quick, temporary termination is required. Binding posts will also accept spade lugs or single banana plugs for alternate termination methods.

Parts

Part #	Description
3BPXF	Female XLR to Binding Posts
3BPXM	Male XLR to Binding Posts

Triax to Coax Adapters

• Features & Benefits

- Male or Female, 75Ω Kings Tri-Loc® Connector
- Female BNC Connector
- Shields are Electrically In-Common

Applications

- Allows for Interfacing Three-conductor Triax Cable into a Two-conductor Coax System
- Not Recommended for Powering Triax Cameras Over Coax Cable

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

Parts

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

Triax Tester

Features & Benefits

- Durable and Weather-resistant Construction
- Operates Off of One 9 Volt Battery
- Test Set Consists of Base Transmitter and Remote Unit—Allows for Convenient On-site Testing

Applications

- Tests for Multiple Combination of Opens and/or Shorts Between Center Conductor, Inner Braid and Outer Braid in Triax Cables

Two-piece test set that measures for multiple combinations of opens and/or shorts between the center conductor, inner braid and outer braid. The convenience of the base and remote, two-unit design allows for testing without having to uninstall and coil the cable The case of both units is constructed from a durable, coated aluminum chassis that is also weather resistant. Operation of the TT2A is extremely simple via a single latching push button and four, high-visibility LEDs.

Parts

Part #	Description
TT-2A	Triaxial Cable Tester (Base & Remote)

DT12 Audio Tester

- **Features & Benefits**
- Displays Location of Faults
- Audible Beep When Faults are Detected
- Backlit LCD
- Metal Chassis
- Powered by a Single 9 Volt Battery

Applications

- Rapid Testing of Thirty-seven Pin DT12 Cables
- Measure for Opens and All Possible Shorts for Each Conductor

Thirty-seven conductor tester for DT12 audio cables. Unlike standard three conductor audio cable that can be simply tested with a multi-meter, the MT37 greatly speeds DT12 cable testing by automatically measuring for opens on each conductor, and all possible shorts from each conductor to all thirty-six other conductors. The backlit LCD will display the location if any faults occur, and an audible alert beeps the number of faults that have been found. The MT37 is constructed from an all-metal chassis and powered by a single 9 volt battery.

Parts

Part #	Description
MT37	DT12 37 Pin Tester

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. Inches	Approx. O.D. mm	Circular ML Area	Weight Lbs/Mft	Weight 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	10/36	.021	.53	250.00	.757	1.12
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
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
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	40.77
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

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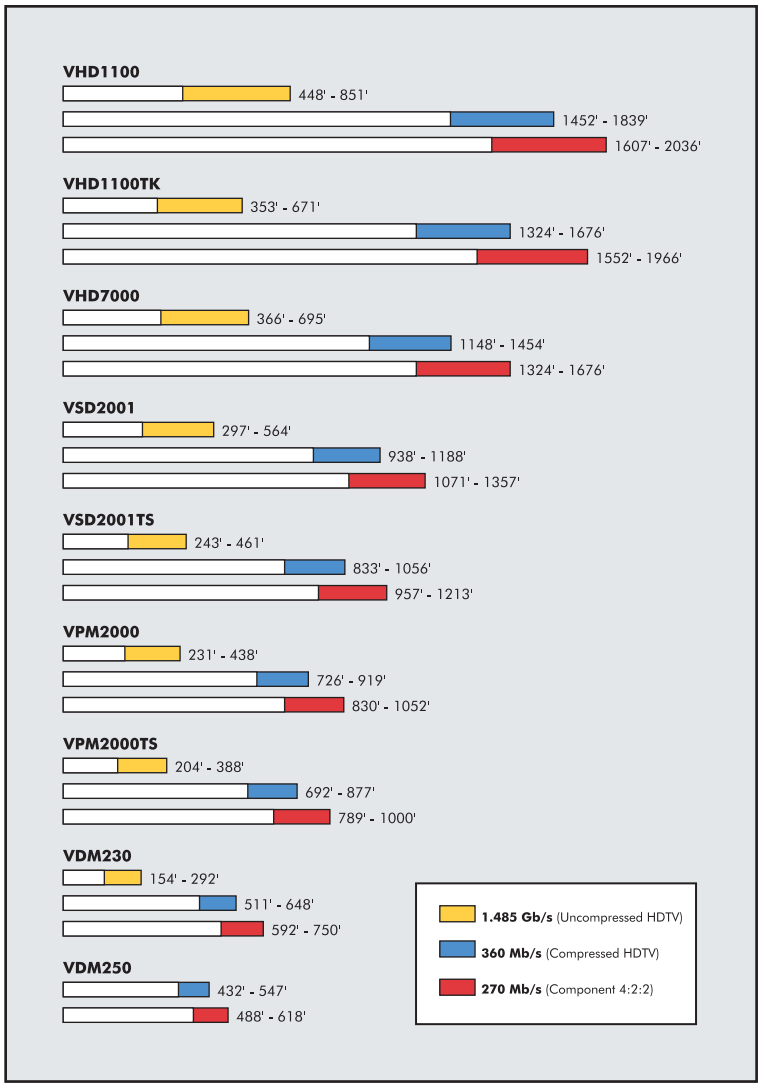
Appendix C: Serial Digital Coax Distances

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.



Appendix D: Connector Cross Reference

BNC Connector Cross Reference

	Kings			ADC		
Gepco Part Number	**BNC**	**Die**	**Tool**	**BNC**	**Die**	**Tool**
RGB250, RGBS250, RGBSC250, RGBHVC250	2065-11-9	KTH-2025	KTH-1000	BNC-13	WD-2	WT-2
RGBSC260TS	N/A	N/A	N/A	BNC-16	WD-2	WT-2
VA2/2TP, VA2/3TP	2065-11-9	KTH-2025	KTH-1000	BNC-13	WD-2	WT-2
VA2/3, VA2/4, VA2/5	2065-2-9	KTH-2261	KTH-1000	BNC-1	WD-2	WT-2
VDM230	2065-11-9	KTH-2025	KTH-1000	BNC-13	WD-2	WT-2
VDM250	2065-11-9	KTH-2025	KTH-1000	BNC-13	WD-2	WT-2
VDM250D	2065-11-9	KTH-2025	KTH-1000	BNC-13	WD-2	WT-2
VE61859M	2065-2-9	KTH-2261	KTH-1000	BNC-1	WD-2	WT-2
VHD1100, VHD1100TK	2065-8-9	KTH-2004	KTH-1000	BNC-25	WD-6	WT-2
VHD7000	2065-12-9	KTH-2260	KTH-1000	BNC-27	WD-1	WT-2
VJ59U	2065-7-9	KTH-2261	KTH-1000	BNC-2	WD-2	WT-2
VP618M	2065-6-9	KTH-2119	KTH-1000	BNC-4	WD-1	WT-2
VP618PE	2065-6-9	KTH-2119	KTH-1000	BNC-4	WD-1	WT-2
VPM2000	2065-2-9	KTH-2261	KTH-1000	BNC-1	WD-2	WT-2
VPM2000TS/TK	2065-2-9	KTH-2261	KTH-1000	BNC-6	WD-2	WT-2
VRC618	2065-2-9	KTH-2261	KTH-1000	BNC-1	WD-2	WT-2
VS102000	2065-2-9	KTH-2261	KTH-1000	BNC-1	WD-2	WT-2
VS10230	2065-11-9	KTH-2025	KTH-1000	BNC-13	WD-2	WT-2
VS32001, VS42001, VS52001	2065-10-9	KTH-2255	KTH-1000	BNC-8	WD-4	WT-2
VSD2001	2065-10-9	KTH-2255	KTH-1000	BNC-8	WD-4	WT-2
VSD2001TS	2065-10-9	KTH-2255	KTH-1000	BNC-10	WD-4	WT-2
VB2095	2065-2-9	KTH-2261	KTH-1000	BNC-1	WD-2	WT-2
VC2095 Series (Non-plenum)	2065-2-9	KTH-2261	KTH-1000	BNC-1	WD-2	WT-2
VC2095TS	2065-2-9	KTH-2261	KTH-1000	BNC-6	WD-2	WT-2
VB1860/VB1890	2065-10-9	KTH-2255	KTH-1000	BNC-8	WD-4	WT-2
VB1890TS	2065-10-9	KTH-2255	KTH-1000	BNC-10	WD-4	WT-2
VC1895	2065-10-9	KTH-2255	KTH-1000	BNC-8	WD-4	WT-2
VC1895TS	2065-10-9	KTH-2255	KTH-1000	BNC-10	WD-4	WT-2
VC1460/VB1490TK	2065-8-9	KTH-2004	KTH-1000	BNC-25	WD-6	WT-2
VB5020	KC59-291	KTH-1000	KTH-2001	N/A	N/A	N/A

F Connector Reference Chart

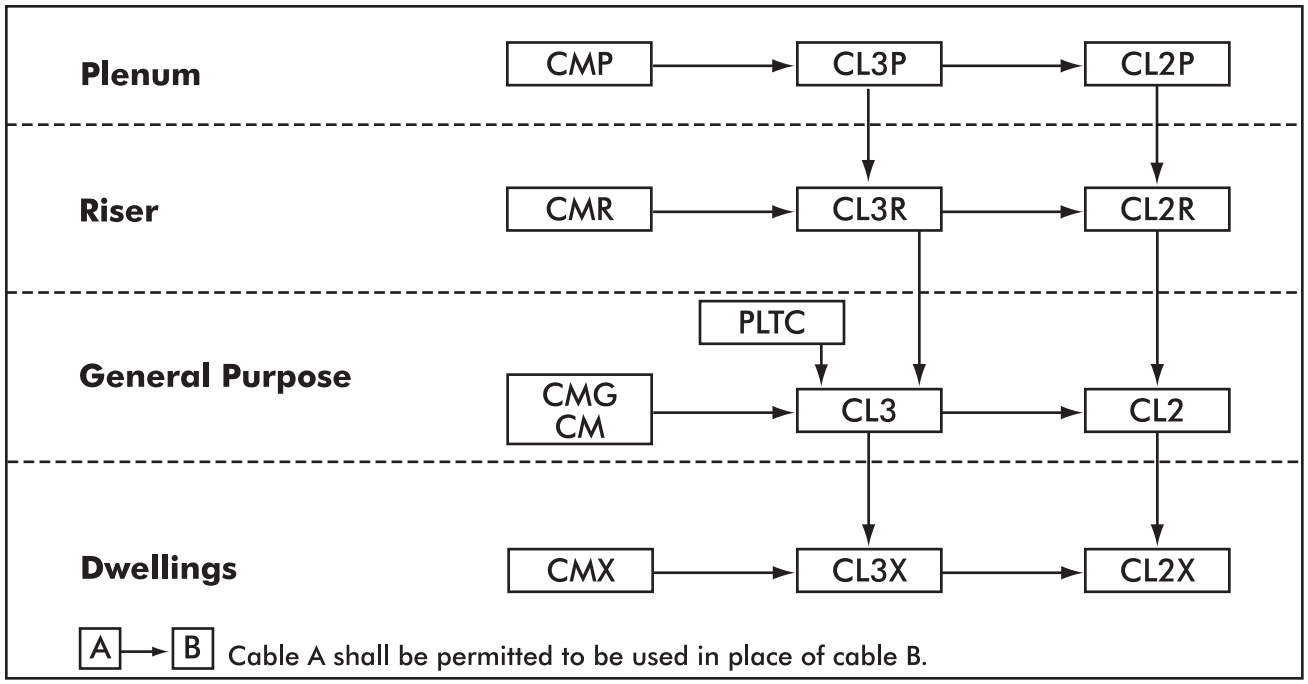
	AIM		Ideal	Canare		
Gepco Part Number	**F Connector**	**Tool & Die**	**Tool & Die**	**Gold Pin F Connector**	**Die Set**	**Crimp Tool**
VA2/3, VA2/4, VA2/5	25-7030	24-7410P	30-503	FP-C4F	TCD-4C / TCD-451C	TC-1
VE61859M	N/A	N/A	N/A	FP-C4F	TCD-4C / TCD-451C	TC-1
VHD1100, VHD1100TK	25-7190	24-7711P	N/A	FP-C71	TCD-7C	TC-1
VJ59U	25-7030	24-7410P	30-503	FP-C4	TCD-4C / TCD-451C	TC-1
VP618M	N/A	N/A	N/A	FP-C51	TCD-451C	TC-1
VP618PE	N/A	N/A	N/A	FP-C51	TCD-451C	TC-1
VPM2000	25-7030	24-7410P	30-503	FP-C4F	TCD-4C / TCD-451C	TC-1
VPM2000TS/TK	25-7049	24-7410P	30-503	N/A	N/A	N/A
VRC618	N/A	N/A	N/A	FP-C4F	TCD-4C / TCD-451C	TC-1
VS102000	25-7030	24-7410P	30-503	FP-C4F	TCD-4C / TCD-451C	TC-1
VS32001, VS42001, VS52001	25-7032	24-7410P	30-503	FP-C53	TCD-35CA	TC-1
VSD2001	25-7032	24-7410P	30-503	FP-C53	TCD-35CA	TC-1
VSD2001TS	25-7047	24-7410P	30-503	FP-C55	TCD-35CA	TC-1
VB2095	25-7030	24-7410P	30-503	FP-C4F	TCD-4C / TCD-451C	TC-1
VC2095 Series (Non-plenum)	25-7030	24-7410P	30-503	FP-C4F	TCD-4C / TCD-451C	TC-1
VC2095TS	25-7049	24-7410P	30-503	N/A	N/A	N/A
VB1860/VB1890	25-7032	24-7410P	30-503	FP-C53	TCD-35CA	TC-1
VB1890TS	25-7047	24-7410P	30-503	FP-C55	TCD-35CA	TC-1
VB18Q	25-7034	24-7410P	30-503	N/A	N/A	N/A
VB18QTS	25-7047	24-7410P	30-503	N/A	N/A	N/A
VC1895	25-7032	24-7410P	30-503	FP-C53	TCD-35CA	TC-1
VC1895TS	25-7047	24-7410P	30-503	FP-C55	TCD-35CA	TC-1
VB1460/VB1490TK	25-7190	24-7711P	N/A	FP-C71	TCD-7C	TC-1

Triax Connector Reference Chart

	Kings Part Numbers							ADC Part Numbers			
Gepco Part Number	**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-3
LVT61859	7705-2	7703-2	7702-2	7702-5	7702-8	KTH-2002	KTH-1000	TCP-B38	TCJ-B38	TD-BEF	WT-3
LVT61859S	7705-2	7703-2	7702-2	7702-5	7702-8	KHT-2002	KTH-1000	TCP-B38	TCJ-B38	TD-BEF	WT-3
VT61811	7705-1	7703-1	7702-1	7702-4	7702-7	KHT-2040	KTH-1000	TCP-A12	TCJ-A12	TD-AD	WT-3
VT61811PE	7705-1	7703-1	7702-1	7702-4	7702-7	KHT-2040	KTH-1000	TCP-A12	TCJ-12	TD-AD	WT-3
VT61811TK	7705-6	7703-8	7702-14	7702-15	N/A	KHT-2040	KTH-1000	N/A	N/A	N/A	N/A
VT61859	7705-2	7703-2	7702-2	7702-5	7702-8	KHT-2002	KTH-1000	TCP-B38	TCJ-B38	TD-BEF	WT-3

Note: All ADC cable mount ProAx connectors can be converted to panel mount types with optional hardware.

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 take from Articles 800 and 725 of the 2002 National Electrical Code. Please consult these articles for details regarding specific applications.

Glossary

Alum–Alumuminum.

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 drawdown, 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 (I1/12). 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 asxis, separated by a dielectic.

Common Mode–Noise, caused by a difference in "ground potential". By grounding at either end reather than both (usually grounded at one source) one can reduce this interference.

Compound–An insulating or jacketing material made by mixing two or more ingredients.

Conductor–A material suitable for carrying electrical current.

Crosstalk–A type of interference caused by signals from one circuit being coupled into adjacent circuits.

dB–Decibel(s).

DCR–Direct current resistance.

Dielectric–Any insulating material between two conductors whcih permits electrostatic attraction and repulsion to take place across it.

Dielectric Constant–Also called permitivity. 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 ethylen 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 componenet 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 infitely 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 eletrical componenets, such as cable conductors and circuit components.

Jacket–Pertaining to wire and cable, the outer sheath wich 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 polymerizaton of ethylene gas and characterized by outstanding electrical properties, including high I.R., low dielectric constant, and low dielectric low 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 copolyer 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™–Registered trademark of ADC Telecommunications. Camera connector for use with triaxial cable.

PU–Polyurethane.

PVC–Polyvinylchloride.

PVDF–Polyvinylidene flouride, a fluorocarbon material.

Shield–In cables, a metallic layer placed around a conductor to prevent eletrostatic 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 groups.

TC–Tinned copper.

Thermoplastic–A material which softens when heated or rreheated 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®–Registererd trademark of Kings Electronics. Camera connector for use with triaxial cable.

UL–(Underwriters Laboratories) A non-profit 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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