



**Audio, Video, and Network Cabling Solutions**

CATALOG G9



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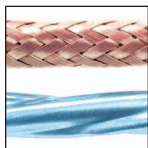
## ANALOG AUDIO CABLES

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# Cabling Technology for High Resolution Analog Audio Interconnections



## Low-loss Dielectric Compounds

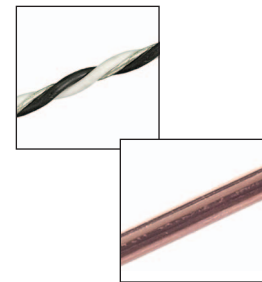
The dielectric material insulates each conductor and affects the high-frequency loss of the cable. Gepco cables utilize only low-loss gas/polymer, polyethylene, or high quality PVC dielectric compounds.

## 100% Foil or 95% Braided Shield

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

## Precision Pair Twisting & Balancing

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



## Application-specific Jackets

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

## High Purity Copper

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

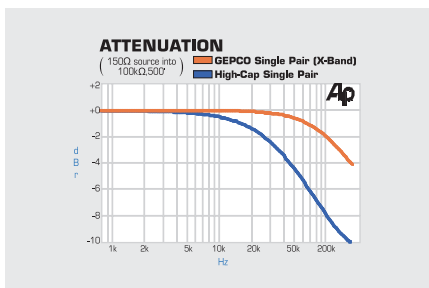
## Easy to Terminate

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

## Electrical Characteristics & Specifications

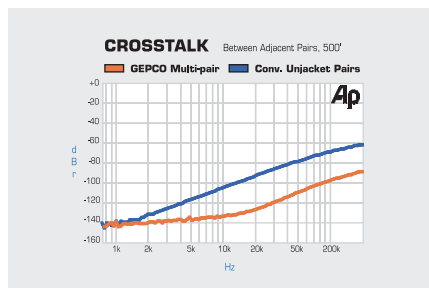
### Bandwidth & Low Attenuation

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



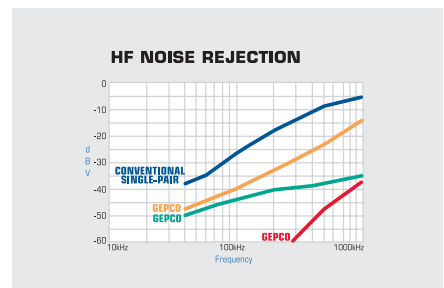
### Minimal Crosstalk

Individual pair jackets in multi-pair cable provide greater physical separation and electrical isolation between pairs. As a result, crosstalk performance between channels is greatly improved.



### Exceptional RF/EMI Noise Rejection

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



## Multi-pair: GEP-FLEX 22 Gage

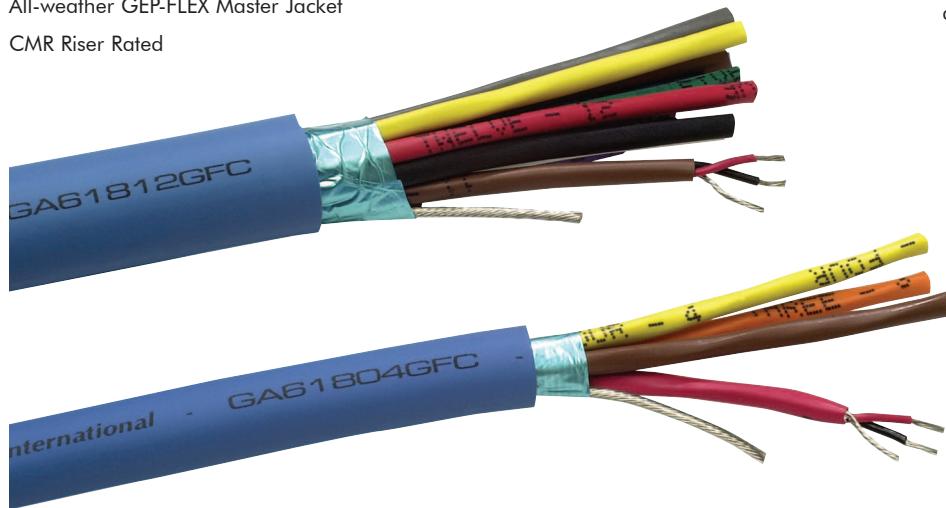
### Features & Benefits

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

### Applications

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

The original Gepco multi-pair cable. Designed for low noise and attenuation, GA series multi-pair is durable, easy to terminate, and UL listed. A high grade polyethylene dielectric is used to minimize high frequency attenuation, while excellent process control and tight pair twisting achieves superior noise rejection. Color coded and alphanumericly printed pairs facilitate easy channel identification, and the new Riser Rated GEP-FLEX master jacket is both flexible and easy to pull through conduit. The 22 gage conductors offer the lowest DCR available in any of our multi-pair products, making the GA618 series ideal for extended distance runs of mic level signals.



### Mechanical Specifications (Series)

Conductors	Insulation/Color Code	Pair Shield	Pair Drain	Pair Jacket (Type, OD)/Color Code	Overall Shield	Overall Common Drain	Master Jacket	UL Type
22 AWG (7x30) Stranded TC	PE, .010" Wall/Red & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC, .140"/Base 10 (See Color Code Chart 1, Page 130)	100% Foil	16 AWG (19x29) Stranded TC 20 AWG (7x28) Stranded TC for GA61802GFC	Riser Gep-Flex TPE, Blue	CMR

### Mechanical Specifications (Individual)

Part Number	# of Pairs	Nominal OD	Approx. Weight
GA61802GFC	2	.360"	67 lbs/Mft
GA61804GFC	4	.400"	95 lbs/Mft
GA61806GFC	6	.475"	121 lbs/Mft
GA61808GFC	8	.570"	159 lbs/Mft
GA61812GFC	12	.635"	217 lbs/Mft
GA61816GFC	16	.710"	263 lbs/Mft
GA61820GFC	20	.800"	315 lbs/Mft
GA61826GFC	26	.840"	387 lbs/Mft
GA61832GFC	32	.935"	497 lbs/Mft

### Electrical Specifications

Capacitance	Cond. DCR	Drain DCR	Overall Common DCR
26 pF/ft between conductors, 48 pF/ft between one conductor and other tied to shield	15.3 Ω/Mft	15.3 Ω/Mft	4.5 Ω/Mft 9.6 Ω/Mft for GA61802GFC

## Multi-pair: GEP-FLEX 24 Gage

### Features & Benefits

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

### Applications

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

Thin profile version, easy-strip Gepco multi-pair. Designed for low noise and attenuation, GA series multi-pair is durable, easy to terminate, and UL listed. A high grade polyethylene dielectric is used to minimize high frequency attenuation, while excellent process control and tight pair twisting achieves superior noise rejection. Color coded and alphanumerically printed pairs facilitate easy channel identification, and the GEP-FLEX master jacket is both flexible and easy to pull through conduit. Twenty-four gage conductors are easier to terminate while still maintaining low DCR. Ideal for cable assemblies, patchbay wiring, or portable snakes.



### Mechanical Specifications (Series)

Conductors	Insulation/Color Code	Pair Shield	Pair Drain	Pair Jacket (Type, OD)/Color Code	Overall Shield	Overall Common Drain	Master Jacket	UL Type
24 AWG (7x32) Stranded TC	PE, .008" Wall/Red & Black	100% Foil (Bonded)	24 AWG (7x32) Stranded TC	PVC, .115"/Base 10 (See Color Code Chart 1, Page 130)	100% Foil	20 AWG (19x32) Stranded TC	Gep-Flex TPE, Black	CM

### Mechanical Specifications (Individual)

Part Number	# of Pairs	Nominal OD	Approx. Weight
GA72402GFC	2	.320"	62 lbs/Mft
GA72404GFC	4	.405"	88 lbs/Mft
GA72408GFC	8	.500"	134 lbs/Mft
GA72412GFC	12	.595"	198 lbs/Mft
GA72416GFC	16	.664"	225 lbs/Mft
GA72426GFC	26	.830"	363 lbs/Mft
GA72432GFC	32	.890"	423 lbs/Mft

### Electrical Specifications

Capacitance	Cond. DCR	Drain DCR	Overall Common DCR
28 pF/ft between conductors, 51 pF/ft between one conductor and other tied to shield	23.8 Ω/Mft	23.8 Ω/Mft	8.9 Ω/Mft

## Multi-pair: 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 crosstalk is achieved through exacting pair twisting, 95% braid shielding, and individual pair jackets. In addition, X-Band also remains easy to prep and terminate.

The insulation and jacket are both easy to score, break, and strip; the tight weave braided shield is easy to trim and terminate via the drain wire. Individual pairs can be easily identified by the alphanumeric print and color coded stripe, yet maintain a more neutral cosmetic appearance in high visibility installations.



### Mechanical Specifications (Series)

Conductors	Insulation/Color Code	Pair Shield	Pair Drain	Pair Jacket (Type, OD)/Color Code	Master Jacket
24 AWG (40x40) Stranded Oxygen-free Bare Copper	Foam Polypropylene, .012" Wall/ One White, One Black	95% TC Braid	24 AWG (41x40) Stranded TC	Flexible Matte PVC .145"/ Black with Base 10 Resistor Color Coded Stripe Alphanumeric Print Inverted Every Inch	Ultra-flexible G-Flex PVC, Black

### Mechanical Specifications (Individual)

Part Number	# of Pairs	Nominal OD	Approx. Weight
<b>XB404</b>	4	.490"	115 lbs/Mft
<b>XB408</b>	8	.580"	176 lbs/Mft
<b>XB412</b>	12	.738"	270 lbs/Mft
<b>XB416</b>	16	.785"	320 lbs/Mft

### Electrical Specifications

Capacitance	Cond. DCR	Shield & Drain DCR
17.5 pF/ft between conductors, 31 pF/ft between one conductor and other tied to shield	27.5 Ω/Mft	6 Ω/Mft

## Multi-pair: Plenum

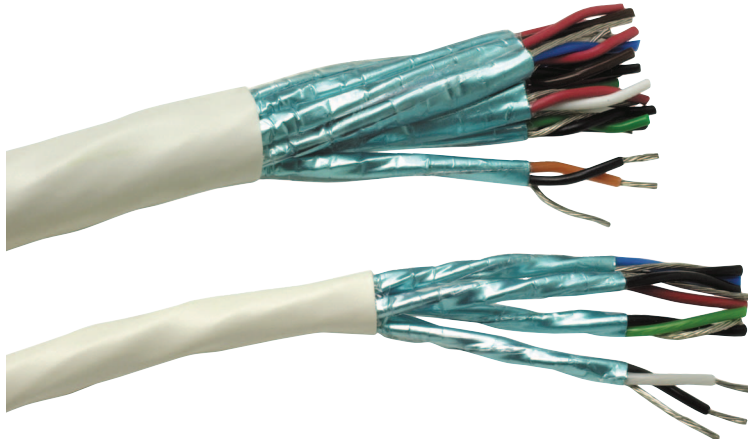
### Features & Benefits

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

### Applications

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

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



Mechanical Specifications (Series)						
Conductors	Insulation	Insulation Color Code	Pair Shield	Pair Drain	Master Jacket	UL Type
22 AWG (7x30) Stranded TC	Halar, .010" Wall	Varies for Each Pair, See Color Code Chart 2, Page 130	100% Foil, Mylar Side Out (Pairs Are Isolated)	22 AWG (7x30) Stranded TC	Plenum PVC, White	CMP

Mechanical Specifications (Individual)			
Part Number	# of Pairs	Nominal OD	Approx. Weight
6604HS	4	.285"	47 lbs/Mft
6608HS	8	.385"	98 lbs/Mft
6612HS	12	.475"	145 lbs/Mft

Electrical Specifications		
Capacitance	Cond. DCR	Drain DCR
28 pF/ft between conductors, 52 pF/ft between one conductor and other tied to shield	15.3 Ω/Mft	15.3 Ω/Mft

## Multi-pair: Heavy-duty Twelve-channel

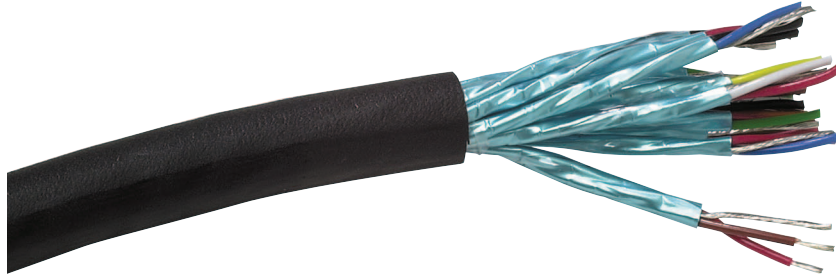
### Features & Benefits

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

### Applications

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

Twelve-channel multi-pair for use in hostile environments. Outer jacket is an extra-thick, extra-tough polyurethane compound that is extremely weather resistant and difficult to puncture. Each pair is individually shielded, isolated, and color coded for channel identification.



Mechanical Specifications									
Part #	# of Pairs	Nominal OD	Conductors	Insulation	Color Code	Pair Shield	Pair Drain	Master Jacket	Approx. Weight
DT61812	12	.505"	22 AWG (19x34) Stranded TC	PE, .010" Wall	Varies for Each Pair, See Color Code Chart 2, Page 130	100% Foil, Mylar Side Out (Pairs Are Isolated)	22 AWG (19x34) Stranded TC	PU, Black	160 lbs/Mft

Electrical Specifications		
Capacitance	Cond. DCR	Drain DCR
26 pF/ft between conductors, 48 pF/ft between one conductor and other tied to shield	14.3 Ω/Mft	14.3 Ω/Mft



## Multi-pair: Direct Burial

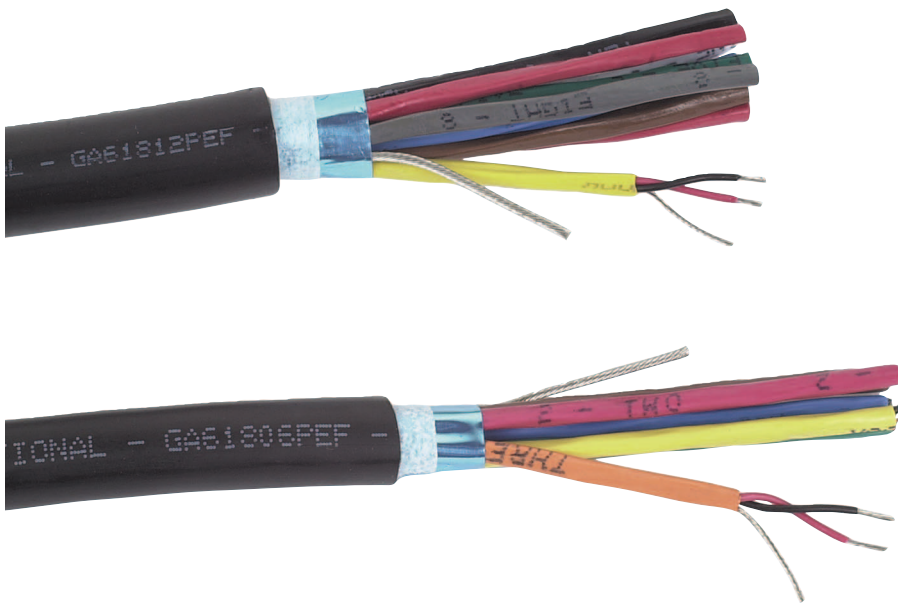
### Features & Benefits

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

### Applications

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

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



### Mechanical Specifications (Series)

Conductors	Insulation/ Color Code	Pair Shield	Pair Drain	Pair Jacket (Type, OD)/ Color Code	Overall Shield	Overall Common Drain	Master Jacket
22 AWG (7x30) Stranded TC	PE, .010" Wall/ Red & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC, .140"/Base 10 (See Color Code Chart 1, Page 130)	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

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

### Electrical Specifications

Part #	Capacitance	Cond. DCR	Drain DCR
61801	26 pF/ft between conductors, 48 pF/ft between one conductor and other tied to shield	15.3 Ω/Mft	15.3 Ω/Mft
61801EZ / D61801EZGF	34 pF/ft between conductors, 62 pF/ft between one conductor and other tied to shield	15.3 Ω/Mft	15.3 Ω/Mft
61801HS	28 pF/ft between conductors, 52 pF/ft between one conductor and other tied to shield	15.3 Ω/Mft	15.3 Ω/Mft
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/Color Code	Shield	Jacket	Jacket Colors	UL Type	Approx. Weight
<b>72401EZ</b>	1	.115"	PE, .008" Wall/Red & Black	100% Foil (Bonded)	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CM	10 lbs/Mft
<i>Thin Profile Single-pair: Easy-strip</i>								
<b>D72401EZGF</b>	2	.130" x .265"	PE, .008" Wall/Red & Black	100% Foil (Bonded)	Gep-Flex TPE	Black with Red Stripe	CM	22 lbs/Mft
<i>Thin Profile Dual-pair: Extra-flexible &amp; Easy-strip</i>								

### Electrical Specifications

Capacitance	Cond. DCR	Drain DCR
28 pF/ft between conductors, 51 pF/ft between one conductor and other tied to shield	23.8 Ω/Mft	23.8 Ω/Mft

## General Purpose Audio & Control: Unshielded

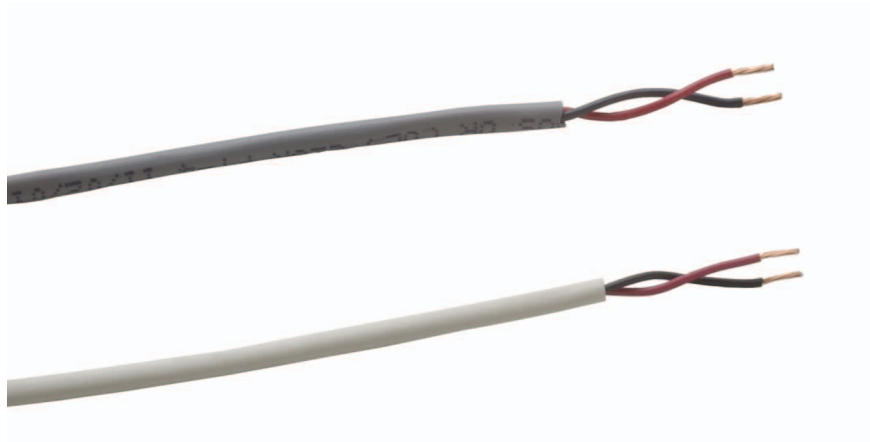
### Features & Benefits

Economical Construction  
Bare Copper Conductors  
PVC Insulation  
20 & 22 Gage Versions  
UL Rated

### Applications

Line Level Audio  
General Purpose Audio  
Control

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



### Mechanical Specifications

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

### Electrical Specifications

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

## General Purpose Audio & Control: Shielded

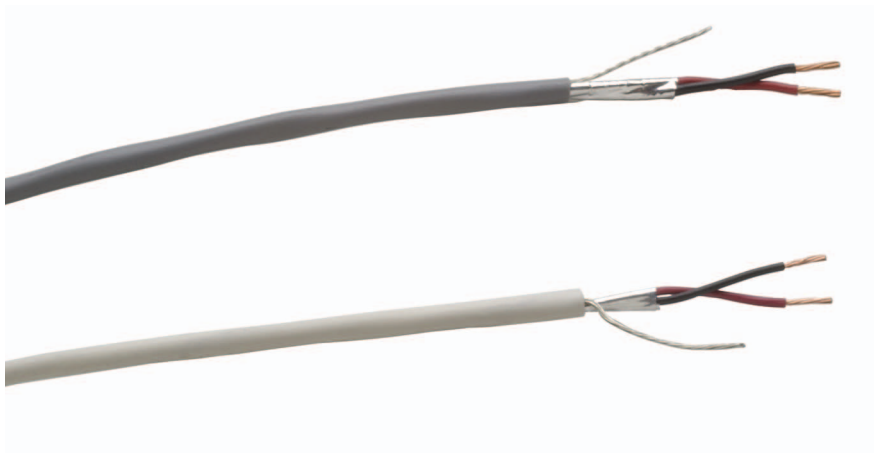
### Features & Benefits

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

### Applications

- Line Level Audio
- General Purpose Audio
- Control

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



Mechanical Specifications									
Part #	# of Pairs	Nominal OD	Conductor	Insulation/Color Code	Shield	Drain Wire (Type, DCR)	Jacket (Type, Colors)	UL Type	Approx. Weight
<b>IR202AL</b>	1	.130"	20 AWG (7x28) Stranded BC	PVC, .008" Wall/ Black & Red	100% Foil	24 AWG (7x32) Stranded TC	PVC, Gray	CMR, CMG, CL3R	15 lbs/Mft
<i>20 AWG x 2 Shielded Audio &amp; Control Cable: Riser</i>									
<b>IP202AL</b>	1	.130"	20 AWG (7x28) Stranded BC	Plenum PVC, .008" Wall/ Black & Red	100% Foil	24 AWG (7x32) Stranded TC	Plenum PVC, White	CMP or CL3P	16 lbs/Mft
<i>20 AWG x 2 Shielded Audio &amp; Control Cable: Plenum</i>									
<b>IR222AL</b>	1	.116"	22 AWG (7x30) Stranded BC	PVC, .008" Wall/ Black & Red	100% Foil	24 AWG (7x32) Stranded TC	PVC, Gray	CMR, CMG, CL3P	12 lbs/Mft
<i>22 AWG x 2 Shielded Audio &amp; Control Cable: Riser</i>									
<b>IP222AL</b>	1	.116"	22 AWG (7x30) Stranded BC	Plenum PVC, .007" Wall/ Black & Red	100% Foil	24 AWG (7x32) Stranded TC	Plenum PVC, White	CMP or CL3P	13 lbs/Mft
<i>22 AWG x 2 Shielded Audio &amp; Control Cable: Plenum</i>									
Electrical Specifications									
Part #	Capacitance			Cond. DCR		Drain DCR			
IR202AL	48 pF/ft between conductors, 86 pF/ft between one conductor and other tied to shield			10.1 Ω/Mft		23.8 Ω/Mft			
IP202AL	46 pF/ft between conductors, 82 pF/ft between one conductor and other tied to shield			10.1 Ω/Mft		23.8 Ω/Mft			
IR222AL	49 pF/ft between conductors, 88 pF/ft between one conductor and other tied to shield			14.8 Ω/Mft		23.8 Ω/Mft			
IP222AL	41 pF/ft between conductors, 74 pF/ft between one conductor and other tied to shield			14.8 Ω/Mft		23.8 Ω/Mft			

## X-Band Single-pair

### Features & Benefits

Ultra-flexible  
 Oxygen-free, Finely Stranded  
 Conductors  
 High Bandwidth Dielectric  
 Braid Shield 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 through tight and precision pair twisting with a durable 95% braid shield. In addition, X-Band remains easy to prep and terminate. Both the insulation and jacket are easy to score, break, and strip; the tight weave braided shield is easy to trim and terminate via the drain wire.



### Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation/ Color Code	Shield	Drain Wire	Jacket	Approx. Weight
<b>XB401</b>	1	.145"	24 AWG (40x40) Stranded Oxygen-free BC	Foam Polypropylene, .012" Wall/ One White, One Black	95% TC Braid	24 AWG (41x40) Stranded TC	Flexible Matte PVC	1.5 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



## 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 Termination
- All-weather TPE Master Jacket

### Applications

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

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



Mechanical Specifications								
Part #	# of Pairs	Nominal OD	Conductors	Insulation/Color Code	Shield	Drain Wire	Jacket (Type, Colors)	Approx. Weight
M1042	1	.255"	20 AWG (26x34) Stranded TC	PE, .020" Wall/ Red & Black	95% TC Braid	22 AWG (19x34) Stranded TC	TPE, Black	40 lbs/Mft
Electrical Specifications								
Capacitance				Cond. DCR		Drain DCR		
20 pF/ft between conductors, 37 pF/ft between one conductor and other tied to shield				10.1 Ω/Mft		16.1 Ω/Mft		

## Microphone: X-Band

### Features & Benefits

Extra-flexible  
Wide Bandwidth  
22 Gage Oxygen-free Conductors  
Data-grade, Gas/Polymer Dielectric  
Dense 95% Copper Braid  
Exceptional RF/EMI & Common-mode Noise Rejection

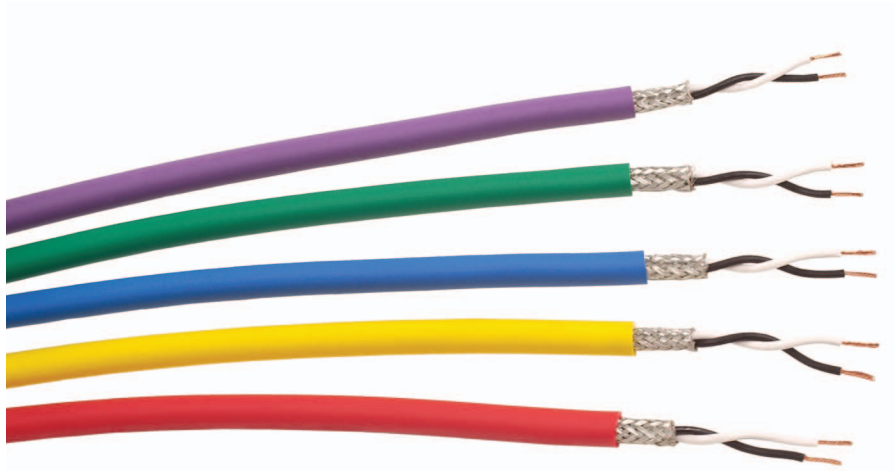
### Applications

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

Gepco's new extra-flexible, high bandwidth X-Band microphone cable series has been specifically designed for use in critical recording studio facilities or live sound venues.

The X-Band microphone series features an extended frequency response and exceptional RF/EMI noise rejection. The bandwidth and rejection characteristics are achieved through precision pair twisting and a video-free foam dielectric that significantly reduces the capacitance. Conductors are finely stranded, oxygen-free copper to maximize conductivity and protect against corrosion. For shielding and additional noise rejection, each pair is shielded with a dense 95% copper braid.

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



### Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation/Color Code	Shield	Jacket	Jacket Colors	Approx. Weight
<b>XB201M</b>	1	.240"	22 AWG (41x38) Stranded Oxygen-free BC	Foam Polypropylene, .015" Wall/White & Black	95% TC Braid	Flexible Matte PVC	Black, Red, Yellow, Green, Blue, Violet	38 lbs/Mft

### Electrical Specifications

Capacitance	Cond. DCR
17 pF/ft between conductors, 30.6 pF/ft between one conductor and other tied to shield	10.5 Ω/Mft

## Microphone: Quad Star

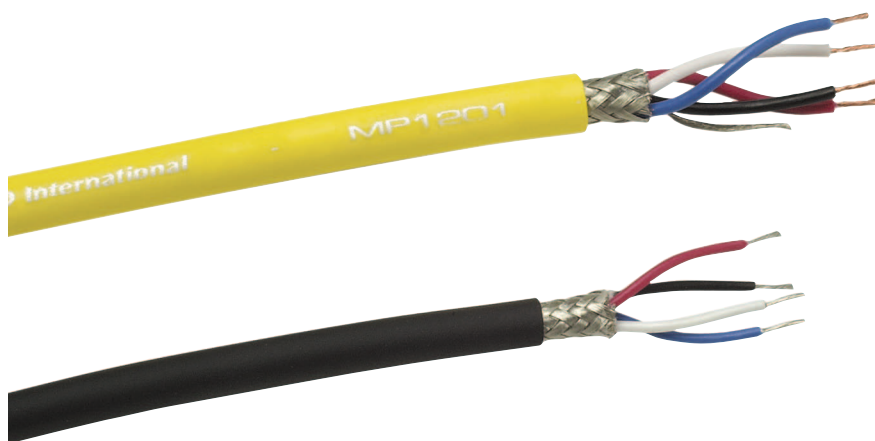
### Features & Benefits

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

### Applications

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

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



Mechanical Specifications									
Part #	# of Cond.	Nominal OD	Conductors	Insulation/Color Code	Shield	Drain Wire	Jacket	Jacket Colors	Aprox. Weight
MP1201	4	.240"	24 AWG (41x40) Stranded BC	PE, .016" Wall/ White & Black, Red & Blue	95% TC Braid	24 AWG (41x40) Stranded TC	Flexible Matte PVC	Black, Red, Yellow, Green, Blue, Gray	38 lbs/Mft
<i>Standard Quad Star</i>									
MM1024	4	.193"	26 AWG (30x40) Stranded TC	PE, .012" Wall/ White & Black, Red & Blue	95% TC Braid	None	Flexible Matte PVC	Black (Other Colors May Also Be Available)	26 lbs/Mft
<i>Thin Profile Quad Star</i>									
Electrical Specifications									
Part #	Capacitance			Cond. DCR		Drain DCR			
MP1201	39 pF/ft between conductors, 57 pF/ft between one conductor and other tied to shield			25.6 Ω/Mft		25.6 Ω/Mft			
MM1024	32 pF/ft between conductors, 54 pF/ft between one conductor and other tied to shield			34.4 Ω/Mft		-----			

## Microphone Cable: Thin Profile

### Features & Benefits

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

### Applications

Microphone or Line Level Balanced Analog Audio  
 Portable Microphone Cables  
 Balanced Equipment Interconnect  
 Longframe or Bantam Patchcords

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



### Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation/Color Code	Shield	Drain Wire	Jacket	Jacket Colors	Approx. Weight
MP1022	1	.194"	24 AWG (41x40) Stranded TC	PE, .013" Wall/White & Black	95% TC Braid	24 AWG (41x40) Stranded TC	Flexible Matte PVC	Black, Red, Green, Blue	25 lbs/Mft

### Electrical Specifications

Capacitance	Cond. DCR	Drain DCR
20 pF/ft between conductors, 37 pF/ft between one conductor and other tied to shield	25.6 Ω/Mft	25.6 Ω/Mft

## Guitar/Instrument: Low Capacitance

### Features & Benefits

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

### Applications

- Line or Instrument Level Unbalanced Analog Audio

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



Mechanical Specifications							
Part #	# of Cond.	Nominal OD	Conductors	Insulation	Shield	Jacket (Type, Colors)	Approx. Weight
GLC20	1	.265"	20 AWG (41x36) Stranded TC	PE, .040" Wall	Semi-conductive PVC, 95% BC Braid	Flexible Matte PVC, Black	43 lbs/Mft

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

## 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

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



### Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductors	Insulation	Conductor Identification	Approx. Weight
GSC102OFC	2	.225" x .455"	10 AWG (423x36) Stranded Oxygen-free BC	Transparent PVC, .048" Wall	One Leg Legend, One Leg Plain	88 lbs/Mft
GSC122OFC	2	.182" x .370"	12 AWG (259x36) Stranded Oxygen-free BC	Transparent PVC, .040" Wall	One Leg Legend, One Leg Plain	65 lbs/Mft

### Electrical Specifications

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



## Speaker Cable: Portable Multi-conductor

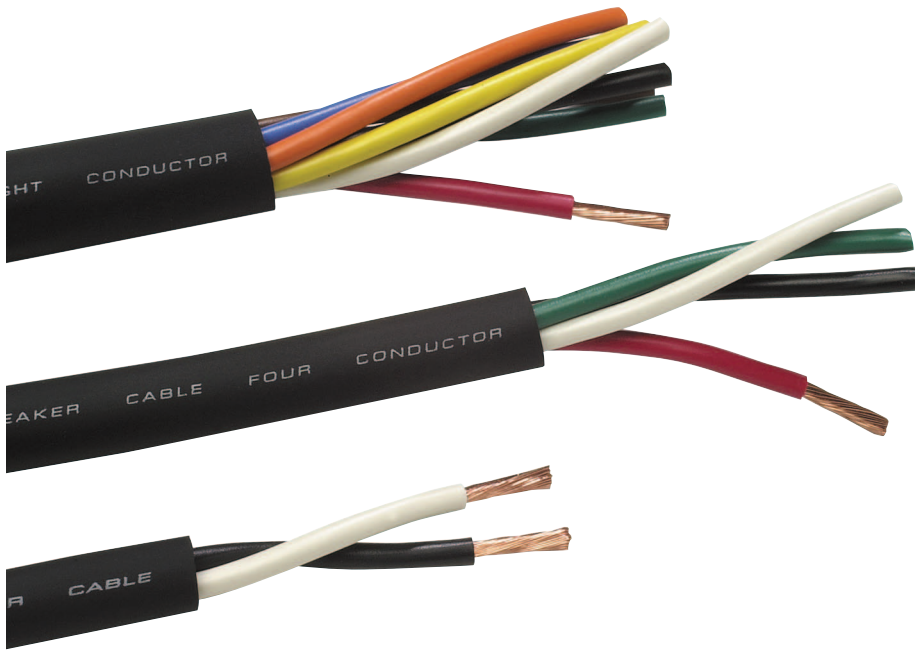
### Features & Benefits

- 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 Speakon® Connectors

Multi-conductor, low-loss speaker cable in a flexible and portable round construction. The densely stranded 13 gage conductors achieve low series resistance and excellent flex-life. Multiple conductors allow for bi-amping or multiple speaker cabinets to be interconnected by one cable. Durable and flexible in low temperatures, the all-weather TPE jacket makes this series well suited for sound reinforcement applications or use in hostile environments. Ideal for termination with Neutrik Speakon® type connectors.



### Mechanical Specifications (Series)

Conductors	Insulation	Jacket (Type, Colors)
13 AWG (52x30) Stranded BC	PVC, .024"	TPE, Black

### Mechanical Specifications (Individual)

Part #	# of Cond.	Nominal OD	Conductor Color Code	Approx. Weight
GSC132	2	.350"	White & Black	85 lbs/Mft
GSC134	4	.420"	White, Black, Green & Red	130 lbs/Mft
GSC138	8	.580"	White, Black, Green, Red, Brown, Blue, Orange & Yellow	259 lbs/Mft

### Electrical Specifications

Cond. DCR
2.2 Ω/Mft

## Speaker Cable: Permanent Installation Unshielded

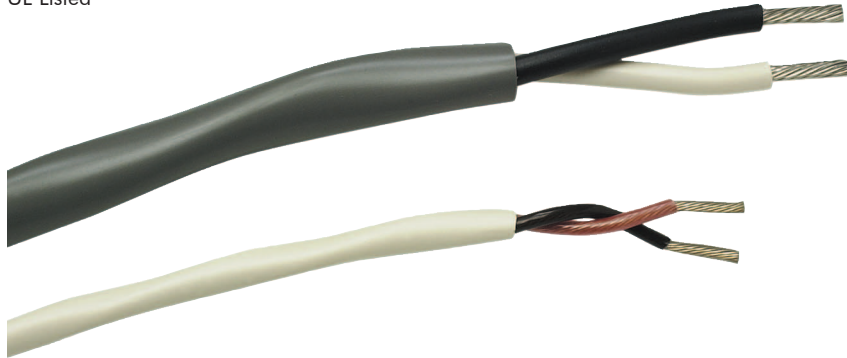
### Features & Benefits

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

### Applications

Speaker Level Analog Audio  
 Permanent Installation

Premium quality speaker cable for permanent installation in conduit, walls, or ceilings. Gepco permanent installation speaker cable is made from only high grade compounds and materials. Each conductor is constructed from tinned copper to protect against oxidation and improve cable termination. For the dielectric, premium grade PVC is used. Compared to other types, Gepco's PVC compound has both exceptional electrical and mechanical characteristics, ensuring improved cable termination and better signal transfer. Available in 12 through 18 gage, each version is manufactured in both UL rated plenum or non-plenum constructions.



### Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductor	Insulation/Color Code	Shield	Drain Wire	Jacket (Type, Colors)	UL Type	Approx. Weight
<b>1200</b>	1	.384"	12 AWG (19x25) Stranded TC	PVC, .031" Wall/ White & Black	-----	-----	PVC, Gray	PLTC	89 lbs/Mft
			<i>12 AWG Speaker Cable</i>						
<b>1200HS</b>	1	.270"	12 AWG (65x30) Stranded TC	Halar, .008" Wall/ Red & Black	-----	-----	Plenum PVC, White	CL3P	87 lbs/Mft
			<i>12 AWG Speaker Cable: Plenum</i>						
<b>1400</b>	1	.336"	14 AWG (19x27) Stranded TC	PVC, .031" Wall/ White & Black	-----	-----	PVC, Gray	PLTC	66 lbs/Mft
			<i>14 AWG Speaker Cable</i>						
<b>1400HS</b>	1	.215"	14 AWG (41x30) Stranded TC	Halar, .008" Wall/ Red & Black	-----	-----	Plenum PVC, White	CL2P	64 lbs/Mft
			<i>14 AWG Speaker Cable: Plenum</i>						
<b>1600</b>	1	.254"	16 AWG (19x29) Stranded TC	PVC, .016" Wall/ White & Black	-----	-----	PVC, Gray	PLTC	43 lbs/Mft
			<i>16 AWG Speaker Cable</i>						
<b>1600HS</b>	1	.180"	16 AWG (19x29) Stranded TC	Halar, .008" Wall/ Red & Black	-----	-----	Plenum PVC, White	CMP	39 lbs/Mft
			<i>16 AWG Speaker Cable: Plenum</i>						
<b>1800</b>	1	.224"	18 AWG (7x26) Stranded TC	PVC, .016" Wall/ White & Black	-----	-----	PVC, Gray	CM	31 lbs/Mft
			<i>18 AWG Speaker Cable</i>						
<b>1800HS</b>	1	.160"	18 AWG (16x30) Stranded TC	Halar, .007" Wall/ Red & Black	-----	-----	Plenum PVC, White	CMP	28 lbs/Mft
			<i>18 AWG Speaker Cable: Plenum</i>						

### Electrical Specifications

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

## Speaker Cable: Permanent Installation Shielded

### Features & Benefits

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

### Applications

- Speaker Level Analog Audio
- Permanent Installation

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



Mechanical Specifications										
Part #	# of Pairs	Nominal OD	Conductor	Insulation/Color Code	Shield	Drain Wire	Jacket (Type, Colors)	UL Type	Approx. Weight	
1600S	1	.287"	16 AWG (19x29) Stranded TC	PE, .032" Wall/ Clear & Black	100% Foil	18 AWG (16x30) Stranded TC	PVC, Gray	CM	52 lbs/Mft	
<i>16 AWG Speaker Cable: Shielded</i>										
1800S	1	.214"	18 AWG (16x30) Stranded TC	PE, .018" Wall/ Clear & Black	100% Foil	18 AWG (16x30) Stranded TC	PVC, Gray	CM	32 lbs/Mft	
<i>18 AWG Speaker Cable: Shielded</i>										
Electrical Specifications										
Part #	Cond. DCR				Drain DCR					
1600S	4.5 Ω/Mft				6.7 Ω/Mft					
1800S	6.7 Ω/Mft				10.5 Ω/Mft					

## General Purpose Speaker: Unshielded

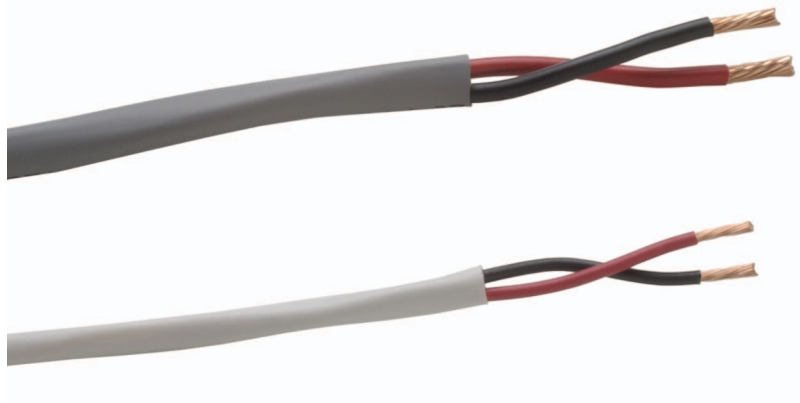
### Features & Benefits

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

### Applications

Speaker Interconnections  
General Purpose Audio  
Control

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



### Mechanical Specifications

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

### Electrical Specifications

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

## General Purpose Speaker: Shielded

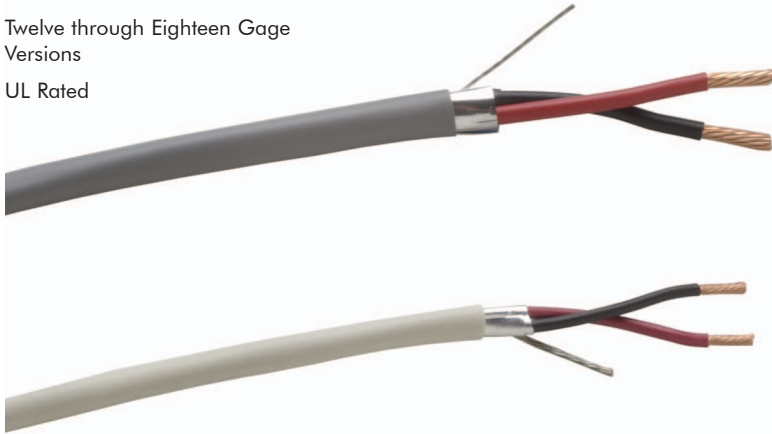
### Features & Benefits

- Economical Construction
- Bare Copper Conductors
- PVC Insulation
- Foil Shield with Drain Wire
- Twelve through Eighteen Gage Versions
- UL Rated

### Applications

- Speaker Interconnections
- General Purpose Audio
- Control

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



### Mechanical Specifications

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

### Electrical Specifications

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

## DIGITAL AUDIO CABLES

### In This Section:

- 28** 110Ω Multi-pair DS Series: 24 Gage
- 29** 110Ω Multi-pair DS Series: 26 Gage
- 30** 110Ω Single-pair DS Series: 24 Gage
- 31** 110Ω Single-pair DS Series: 26 Gage
- 32** 110Ω Single-pair DS Series: 24 Gage Extra-flexible
- 33** 110Ω Single-pair DS Series: 26 Gage Extra-flexible
- 34** 75Ω AES3id, Word Clock & SPDIF Coax: Extra-flexible
- 35** 75Ω AES3id, Word Clock & SPDIF Coax



# Impedance-specific Twisted-pair & Coax for Digital Audio Data Transmission



## Impedance Stabilizing Rods

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

## 100% Foil or 95% Braided Shield

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

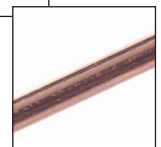
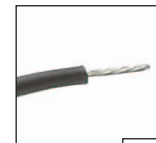


## AES/EBU Compliant

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

## Nitrogen/Polymer Dielectric Compounds

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



## High Purity Copper

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

## Easy to Terminate

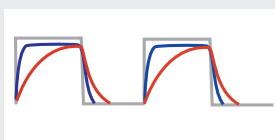
Each cable has time saving features such as color coded jackets, optimized conductor stranding, drain wires, and easy-to-strip compounds.

## Electrical Characteristics & Specifications

### Low Jitter & Pulse Rounding

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

#### PULSE ROUNDING OF DATA BITS

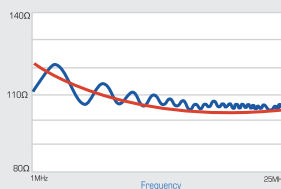


█ Original Bit Pulse  
█ Pulse Through 110Ω Digital Audio Cable  
█ Pulse Through Analog Audio Cable

### Precision 110Ω or 75Ω Impedance

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

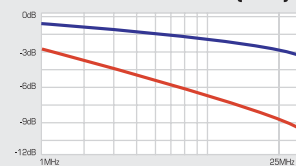
#### CHARACTERISTIC IMPEDANCE



### Extended 25 MHz Bandwidth

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

#### HIGH FREQUENCY CABLE ATTENUATION (100')



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

## 110Ω Multi-pair DS Series: 24 Gage

### Features & Benefits

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

### Applications

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

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



### Mechanical Specifications (Series)

Conductors	Dielectric/ Color Code	Pair Shield	Pair Drain	Pair Jacket (Type, OD)/ Color Code	Master Jacket	UL Type
24 AWG (7x32) Stranded TC	Foam PE, .021" Wall/ White & Black	100% Foil	22 AWG (7x30) Stranded TC	PVC, .180"/ Base 10	Gep-Flex TPE, Violet	CMR

### Mechanical Specifications (Individual)

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

### Electrical Specifications

Impedance	Capacitance	Cond. DCR	Drain DCR	Attenuation (dB per 100 ft)				
				1MHz	3MHz	6MHz	12MHz	25MHz
110 Ω	11 pF/ft between conductors, 21 pF/ft between one conductor and other tied to shield	23.8 Ω/Mft	15.3 Ω/Mft	.090	1.30	1.60	2.15	4.10

## 110Ω Multi-pair DS Series: 26 Gage

### Features & Benefits

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

### Applications

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

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



Mechanical Specifications (Series)						
Conductors	Insulation	Pair Shield	Pair Drain	Pair Jacket (Type, OD)/Color Code	Master Jacket	UL Type
26 AWG (7x34) Stranded TC	Foam PP, .015" Wall/ White & Black	100% Foil	24 AWG (7x32) Stranded TC	PVC, .143" / Base 10	Gep-Flex TPE, Black	CM

Mechanical Specifications (Individual)			
Part Number	# of Pairs	Nominal OD	Approx. Weight
DS604	4	.435"	65 lbs/Mft
DS608	8	.560"	140 lbs/Mft
DS612	12	.685"	200 lbs/Mft
DS616	16	.785"	270 lbs/Mft
DS624	24	.975"	395 lbs/Mft

Electrical Specifications								
Impedance	Capacitance	Cond. DCR	Drain DCR	Attenuation (dB per 100 ft)				
				1MHz	3MHz	6MHz	12MHz	25MHz
110 Ω	14 pF/ft between conductors, 27 pF/ft between one conductor and other tied to shield	38.5 Ω/Mft	23.8 Ω/Mft	1.25	1.85	2.40	3.16	4.20

## 110Ω Single-pair DS Series: 24 Gage

### Features & Benefits

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

### Applications

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

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



### Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Dielectric/Color Code	Fillers	Shield	Drain	Jacket	UL Type	Approx. Weight
<b>DS401</b>	1	.180"	24 AWG (7x32AWG) Stranded TC	Foam PE, .021" Wall/ One White, One Black	Solid Virgin Polyethylene Rod	100% Foil	22 AWG (7x30) Stranded TC	PVC, Violet or Black	CMR	13 lbs/Mft
<i>Wide Bandwidth Single-pair: Permanent Install. Easy Strip &amp; Termination</i>										
<b>DS401D</b>	2	.370" x .180"	24 AWG (7x32AWG) Stranded TC	Foam PE, .021" Wall/ One White, One Black	Solid Virgin Polyethylene Rod	100% Foil	22 AWG (7x30) Stranded TC	PVC, Violet with Red Stripe	CMR	26 lbs/Mft
<i>Wide Bandwidth Dual-pair: Permanent Install. Easy Strip &amp; Termination</i>										
<b>DS401TS</b>	1	.170"	24 AWG (7x32AWG) Stranded TC	Foam FEP, .021" Wall/ One White, One Black	-----	100% Foil	22 AWG (7x30) Stranded TC	Plenum PVC White	CMP	13 lbs/Mft
<i>Wide Bandwidth Single-pair: Plenum</i>										

### Electrical Specifications

Part #	Impedance	Capacitance	Cond. DCR	Drain DCR	Attenuation (dB per 100 ft)				
					1MHz	3MHz	6MHz	12MHz	25MHz
DS401/DS401D	110 Ω	11 pF/ft between conductors, 21 pF/ft between one conductor and other tied to shield	23.8 Ω/Mft	15.3 Ω/Mft	.90	1.30	1.60	2.15	4.10
DS401TS	110 Ω	11 pF/ft between conductors, 21 pF/ft between one conductor and other tied to shield	23.8 Ω/Mft	15.3 Ω/Mft	.80	1.20	1.50	2.00	2.90

## 110Ω Single-pair DS Series: 26 Gage

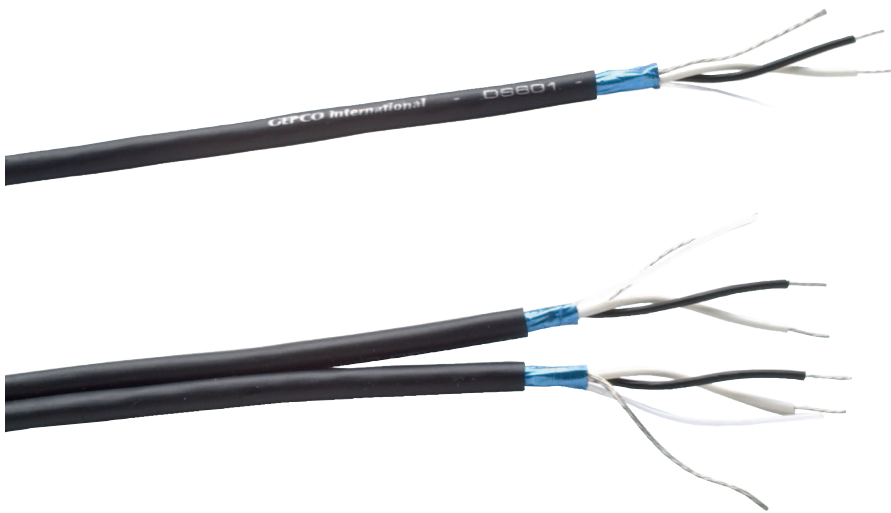
### Features & Benefits

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

### Applications

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

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



Mechanical Specifications									
Part #	# of Pairs	Nominal OD	Conductors	Dielectric Color Code	Shield	Drain Wire	Jacket (Type, Colors)	UL Type	Approx. Weight
<b>DS601</b>	1	.143"	26 AWG (7x34) Stranded TC	Foam PP, .015" Wall/ White & Black	100% Foil	24 AWG (7x32) Stranded TC	PVC, Black	CM	10 lbs/Mft
<i>Thin Profile 110Ω Single-pair</i>									
<b>DS601D</b>	2	.143 x .290"	26 AWG (7x34) Stranded TC	Foam PP, .015" Wall/ White & black	100% Foil	24 AWG (7x32) Stranded TC	PVC, Black with Red Stripe	CM	21 lbs/Mft
<i>Thin Profile 110Ω Dual-pair</i>									
Electrical Specifications									
Part #	Impedance	Capacitance	Cond. DCR; Drain DCR	Attenuation (dB per 100 ft)					
				1MHz	3MHz	6MHz	12MHz	25MHz	
DS601	110 Ω	14 pF/ft between conductors, 27 pF/ft between one conductor and other tied to shield	38.5 Ω/Mft; 23.8 Ω/Mft	1.25	1.85	2.40	3.16	4.20	

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

### Features & Benefits

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

### Applications

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

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



### Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Dielectric/Color Code	Fillers	Shield	Drain	Jacket (Type, Colors)	Approx. Weight
DS401M	1	.235"	24 AWG (41x40 AWG) Stranded TC	Foam PE, .021" Wall/ One White, One Black	Solid Virgin Polyethylene Rods (2)	95% TC Braid	24 AWG (41x40) Stranded TC	Flexible Matte PVC, Violet	27 lbs/Mft

Wide Bandwidth Single-pair: Extra-flexible

### Electrical Specifications

Part #	Impedance	Capacitance	Cond. DCR	Drain DCR	Attenuation (dB per 100 ft)				
					1MHz	3MHz	6MHz	123MHz	25MHz
DS401M	110 Ω	11 pF/ft between conductors, 21 pF/ft between one conductor and other tied to shield	25.6 Ω/Mft	25.6 Ω/Mft	.60	.90	1.60	2.30	3.40

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

### Features & Benefits

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

### Applications

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

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



Mechanical Specifications									
Part #	# of Pairs	Nominal OD	Conductors	Dielectric Color Code	Fillers	Shield	Drain Wire	Jacket (Type, Colors)	Approx. Weight
DS601M	1	.199"	26 AWG (30x40) Stranded Oxygen-free BC	Foam PP, .016" Wall/ White & Black	Solid Virgin Polyethylene Rods (2)	98% Oxygen-free BC Spiral Serve	Yes	Flexible Matte PVC, Black	19 lbs/Mft
<i>Thin Profile 110Ω Single-pair: Extra-flexible</i>									
Electrical Specifications									
Part #	Impedance	Capacitance	Cond. DCR	Attenuation (dB per 100 ft)					
				1MHz	3MHz	6MHz	12MHz	25MHz	
DS601M	110 Ω	14 pF/ft between conductors, 27 pF/ft between one conductor and other tied to shield	38.5 Ω/Mft	0.65	1.50	2.70	4.60	7.80	



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

### Features & Benefits

Low Attenuation & Return Loss  
 Low Jitter  
 Precision 75Ω Impedance  
 3GHz Bandwidth  
 Gas-injected Dielectric  
 Extra-flexible

### Applications

SPDIF  
 AES3id  
 Word Clock  
 Rack Patching

Flexible, low-loss, precision coax for SPDIF or other 75Ω digital audio applications that require flexibility in a non-permanent installation application. Unlike conventional coax cable, VHD2000M utilizes a stranded center conductor, double braid shield, and ultra-flexible PVC jacket for excellent flexibility and flex-life. VHD2000M 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	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	Approx. Weight
VHD2000M	1	.242"	21 AWG (19x34) Stranded BC (Compact)	Gas-injected Foam PE, .146"	95% TC Braid, 95% TC Braid	Flexible PVC	Black, Red, Orange, Yellow, Green, Blue, Violet	33 lbs/Mft

### Electrical Specifications

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
75 Ω (+/-3)	>20dB, >15dB	17 pF/ft	14.3 Ω	2.4 Ω	78%	0.25	0.52	0.91	2.51	3.50	5.05	5.92	8.60	10.35	13.05	16.50	19.60



## 75Ω AES3id, Word Clock & SPDIF 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

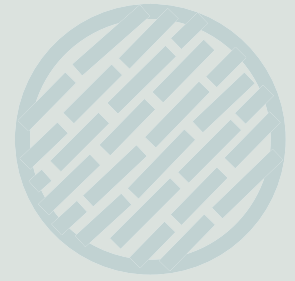
### Applications

- 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, AES3id, SPDIF, 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								
<i>Extended Distance RG11 Digital Coax</i>																	
VHD7000	1	.320"	16 AWG Solid BC	Gas-injected Foam PE, .223"	95% TC Braid, 100% Foil	PVC	Black, Others by Special Order	CMR	50 lbs/Mft								
<i>Extended Distance RG7 Digital Coax</i>																	
VSD2001	1	.272"	18 AWG Solid BC	Gas-injected Foam PE, .180"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	42 lbs/Mft								
<i>Low-loss RG6 Digital Coax</i>																	
VPM2000	1	.242"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	35 lbs/Mft								
<i>Standard RG59 Digital Coax</i>																	
VDM230	1	.164"	23 AWG Solid BC	Gas-injected Foam PE, .100"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	18 lbs/Mft								
<i>Miniature 23 AWG Digital Coax</i>																	
Electrical Specifications																	
Part #	Impedance	Return Loss (100kHz-1GHz), (1GHz-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



## VIDEO CABLES

### In This Section:

- 38** High Definition SDI Coax
- 39** Direct Burial HDTV Coax
- 40** Miniature HDTV/SDI Coax
- 41** Ultra-miniature HDTV Coax
- 42** Extra-flexible High Definition SDI Coax
- 43** Extra-flexible Analog Coax
- 44** Component RGB: Miniature Stranded
- 45** Component RGB: Miniature Solid
- 46** Component RGB: Miniature Plenum
- 47** Component RGB with Category 5E
- 48** Component RGB with 2 Audio Pairs
- 49** Component RGB with 4 Audio Pairs & 4 Power Conductors
- 50** Component RGB: High Definition RG59
- 51** Component RGB: High Definition RG6
- 52** HDTV Ten-channel Video Snake: Miniature 23 Gage
- 53** HDTV Ten-channel Video Snake: RG59 & RG6
- 54** Broadband & Distribution Coax
- 55** Precision Video Coax
- 56** Head End Coax
- 57** CCTV Coax
- 58** 50Ω Coax
- 59** Composite A/V: Dual Zip
- 60** Composite A/V: Thin Profile
- 61** Composite A/V: Low Loss

# Precision Cabling Technology that Delivers Your Clearest Vision



### Gas-injected Dielectric

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

### Broadband RF/EMI Rejection

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

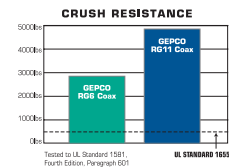


### Flexible & Easy to Strip

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

### Crush Resistant

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



### Precision Drawn Conductor

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

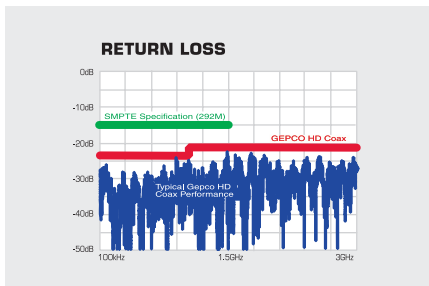
### Industry Leading Tolerances

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

## Electrical Characteristics & Specifications

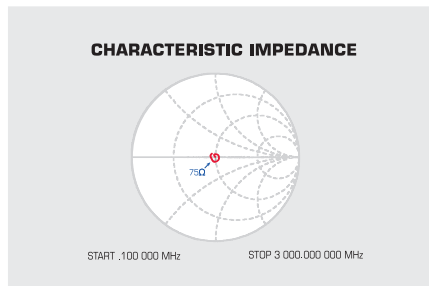
### Meets or Exceeds Standards & 100% Sweep Tested

All Gepeco HD coax meets or exceeds SMPTE 292M & 299M standards for digital video cable. This includes specifications for return loss, impedance, attenuation, and bandwidth performance.



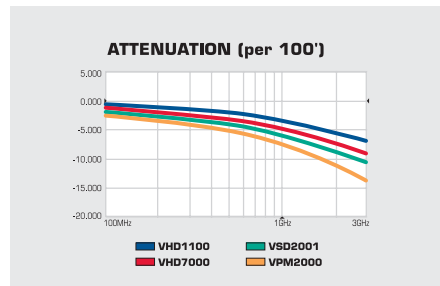
### Precision Impedance Tolerances

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



### Low Attenuation

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



## High Definition SDI Coax

### Features & Benefits

Ultra-low Attenuation & Return Loss  
 Precision 75Ω Impedance  
 3GHz Bandwidth for HDTV  
 High Velocity of Propagation  
 Gas-injected Foam Polyethylene or Teflon Dielectric  
 100% Sweep Tested  
 Full Copper Braid & Foil Shield

### Applications

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

The High Definition video coax series has been engineered and expanded to feature a 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 a wide range of sizes to accommodate short-distance rack wiring or extended distance point-to-point interconnect.



### Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight
<b>VHD1100</b>	1	.405"	14 AWG Solid BC	Gas-injected Foam PE, .285"	95% TC Braid, 100% Foil	PVC	Black, Others by Special Order	CMR	76 lbs/Mft
<i>Extended Distance RG11 HD Coax</i>									
<b>VHD1100TK</b>	1	.346"	14 AWG Solid BC	Gas-injected Foam FEP, .285"	95% TC Braid, 100% Foil	PVDF	White, Others by Special Order	CMP	78 lbs/Mft
<i>Extended Distance RG11 HD Coax: Plenum</i>									
<b>VHD7000</b>	1	.320"	16 AWG Solid BC	Gas-injected Foam PE, .223"	95% TC Braid, 100% Foil	PVC	Black, Others by Special Order	CMR	50 lbs/Mft
<i>Extended Distance RG7 HD Coax</i>									
<b>VSD2001</b>	1	.272"	18 AWG Solid BC	Gas-injected Foam PE, .180"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	42 lbs/Mft
<i>Low-loss RG6 HD Coax</i>									
<b>VSD2001TS</b>	1	.237"	18 AWG Solid BC	Gas-injected Foam FEP, .170"	95% TC Braid, 100% Foil	Plenum PVC	White, Others by Special Order	CMP	40 lbs/Mft
<i>Low-loss RG6 HD Coax: Plenum</i>									
<b>VPM2000</b>	1	.242"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	35 lbs/Mft
<i>Standard RG59 HD Coax</i>									
<b>VPM2000TS</b>	1	.200"	20 AWG Solid BC	Gas-injected Foam FEP, .135"	95% TC Braid, 100% Foil	Plenum PVC	White, Others by Special Order	CMP	32 lbs/Mft
<i>Standard RG59 HD Coax: Plenum</i>									

### Electrical Specifications

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

## Direct Burial HDTV Coax

### Features & Benefits

- Polyethylene Jacket with Water Blocking Tape
- Ultra-low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz Bandwidth for HDTV
- High Velocity of Propagation
- Gas-injected Foam Polyethylene or Teflon Dielectric
- 100% Sweep Tested
- Full Copper Braid & Foil Shield

### Applications

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

High Definition coax for direct burial applications. The direct burial series features the same precision center conductor, gas-injected dielectric, and broadband shielding as the riser rated versions, but with a polyethylene jacket and water blocking tape. The polyethylene jacket is exceptionally puncture resistant and inert, while the water blocking tape absorbs moisture and prevents migration. As with all Gepco High Definition cables, the direct burial series has a 3GHz bandwidth, low attenuation and return loss, and meets or exceeds SMPTE 292M standards for uncompressed High Definition video interconnects.



Mechanical Specifications																		
Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight									
VHD1100PEF	1	.405"	14 AWG Solid BC	Gas-injected Foam PE, .285"	95% TC Braid, 100% Foil	PE with Water Blocking Tape	Black	---	78 lbs/Mft									
<i>Low-loss RG11 HD Coax: Direct Burial</i>																		
VSD2001PEF	1	.272"	18 AWG Solid BC	Gas-injected Foam PE, .180"	95% TC Braid, 100% Foil	PE with Water Blocking Tape	Black	---	40 lbs/Mft									
<i>Low-loss RG6 HD Coax: Direct Burial</i>																		
Electrical Specifications																		
Part #	Impedance	Return Loss (100kHz-1GHz), (1GHz-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
VHD1100PEF	75 Ω (+/-2)	>23dB, >21dB	16.2 pF/ft	2.5 Ω	1.5 Ω	84%	0.14	0.28	0.43	1.02	1.40	1.92	2.25	3.30	3.86	4.73	5.80	6.72
VSD2001PEF	75 Ω (+/-2)	>23dB, >21dB	16.3 pF/ft	6.4 Ω	2.8 Ω	83%	0.22	0.43	0.70	1.60	2.10	2.96	3.40	4.95	5.87	7.30	9.13	10.65

## Miniature HDTV/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 & Foil Shield  
 100% Sweep Tested  
 Low Weight

### Applications

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

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

All utilize a pure copper center conductor, low-loss foam polyethylene dielectric, and broadband foil and braid shielding. VDM230 features the same gas-injected dielectric found in the HD coax series making it ideal for Standard Definition digital video, AES3id digital audio, or High Definition digital video interconnect within mobile production trucks. VDM250 and VDM250D are recommended for short distance, low bit-rate digital, analog video, or SVHS applications.



### Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight
<b>VDM230</b>	1	.164"	23 AWG Solid BC	Gas-injected Foam PE, .100"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	18 lbs/Mft
<i>Miniature HD/SDI Coax: 23 AWG Solid</i>									
<b>VDM250</b>	1	.154"	25 AWG (7x33) Stranded BC	Gas-injected Foam PE, .099"	95% TC Braid, 100% Foil	PVC	Black	CMR	16 lbs/Mft
<i>Miniature SDI Coax: 25 AWG Stranded</i>									
<b>VDM250D</b>	2	.154" x .315"	25 AWG (7x33) Stranded BC	Gas-injected Foam PE, .099"	95% TC Braid, 100% Foil	Flexible Matte PVC	Black	----	33 lbs/Mft
<i>Miniature SDI or SVHS Coax: Dual 25 AWG Stranded</i>									

### Electrical Specifications

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



## Ultra-miniature HDTV Coax

### Features & Benefits

- Ultra-thin Profile
- Low Weight
- More Durable Than Other Subminiature Types
- 3GHz Bandwidth for HDTV
- Double Shield (Foil & Braid)
- Precision 75Ω Impedance
- Gas-injected Dielectric
- Easy to Terminate

### Applications

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

The new VDM260 was designed to achieve exceptionally low weight and size, without sacrificing the critical electrical and mechanical properties that are required for reliable transmission in broadcast applications.

The VDM260 features a 26 gage solid conductor that provides lower attenuation and superior mechanical integrity compared to other subminiature designs that utilize smaller, more fragile gage types. In addition, VDM260 has a broadband foil and braid shield that offers better RF/EMI protection and greater structural integrity than serve type shields.

For the insulating dielectric, VDM260 utilizes gas-injected PE which provides exceptionally low attenuation and a 3GHz bandwidth for 1.485 Gb/s HD video transmission.



Mechanical Specifications									
Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight
VDM260	1	.114"	26 AWG Solid BC	Gas-injected Foam PE, .074"	95% TC Braid, 100% Foil	PVC	Black	CM	9 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	33.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz
75 Ω (+/-3)	>23dB, >19dB	16.8 pF/ft	40.5 Ω/7.0 Ω	80%	0.51	1.12	1.85	4.35	5.74	7.95	9.25	13.20	15.65	19.28	23.73	27.50

## Extra-flexible High Definition SDI Coax

### Features & Benefits

Extra-flexible  
3GHz Bandwidth  
Low Attenuation & Return Loss  
Precision 75Ω Impedance  
Gas-injected, Foam Polyethylene Dielectric  
Stranded Center Conductor  
Double Braid Shield  
100% Sweep Tested  
Matte PVC Flexible Jacket

### Applications

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

Extra-flexible, low-loss RG59 type coax with a 3GHz bandwidth for 1.485 Gb/s HDTV transmission. VHD2000M features a precision stranded center conductor, a unique double-braided shield, and a matte PVC jacket to achieve exceptional flexibility and flex-life without compromising the electrical performance required for HD video.

For the insulating dielectric, VHD2000M features a crush-resistant, gas-injected polyethylene compound that reduces attenuation and extends the operating bandwidth. As with all other Gepco HD coax cables, every critical electrical and mechanical characteristic is manufactured to precision tolerances.



### Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	Approx. Weight
VHD2000M	1	.242"	21 AWG (19x34) Stranded BC (Compact)	Gas-injected Foam PE, .146"	95% TC Braid, 95% TC Braid	Flexible PVC	Black, Red, Orange, Yellow, Green, Blue, Violet	33 lbs/Mft

### Electrical Specifications

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
75 Ω (+/-3)	>20dB, >15dB	17 pF/ft	14.3 Ω	2.4 Ω	78%	0.25	0.52	0.91	2.51	3.50	5.05	5.92	8.60	10.35	13.05	16.50	19.60



## Extra-flexible Analog Coax

### Features & Benefits

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

### Applications

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

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



Mechanical Specifications								
Part #	# of Cond.	Nominal OD	Conductors	Insulation	Shield	Jacket (Type, Colors)	Approx. Weight	
VE61859M	1	.242"	21 AWG (19x34) Stranded BC (Compact)	Gas-injected Foam PE, .146" Wall	95% BC Braid	Flexible Matte PVC, Black	60 lbs/Mft	

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

## Component RGB: Miniature Stranded

### Features & Benefits

Thin Profile  
 Low Attenuation & Return Loss  
 Precision 75Ω Impedance  
 1GHz Bandwidth  
 High Velocity of Propagation  
 Extra-flexible  
 Full Copper Braid & Foil Shield  
 100% Sweep Tested  
 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-angled 95% braid and 100% non-bonded foil shield are easy to terminate and achieve exceptional broadband noise rejection. New Riser GEP-FLEX master jacket is flexible, durable, and UL rated allowing for use in permanent installation or portable applications. Ideal for component analog, multi-channel analog, or multi-channel standard definition digital video interconnect.



### Mechanical Specifications (Series)

Conductors	Insulation (Type, OD)	Shield	Coax Jacket (Type, OD)	Master Jacket	UL Type
25 AWG (7x33) Stranded BC	Gas-injected Foam PE, .099"	95% TC Braid, 100% Foil	PVC, .154"	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

## Component RGB: Miniature Solid

### Features & Benefits

- Thin Profile
- Low Attenuation & Return Loss
- Precision 75Ω Impedance
- 3GHz Bandwidth for Uncompressed HD Video
- High Velocity of Propagation
- Extra-flexible
- Gas-injected Foam Polyethylene Dielectric
- Full Copper Braid & Foil Shield
- 100% Sweep Tested
- All-weather TPE Master Jacket

### Applications

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

Component video or multi-channel HD video snake for portable applications. The VS5230 features 3GHz, High Definition coaxial elements that have the lowest attenuation of the miniature types and meet or exceed SMPTE 292M standards for uncompressed HD video. Each coaxial element is constructed from a precision 23 gage solid conductor, gas-injected dielectric, and broadband foil and braid shield. Commonly used for high resolution component analog video, the bandwidth and precision tolerances of the VS5230 also allow it to be used as a multi-channel HD/SDI video snake. The outer jacket is extruded from an all-weather TPE jacket that is both flexible and abrasion resistant.



Mechanical Specifications									
Part #	# of Coaxials	Nominal OD	Conductors	Insulation (Type, OD)	Shield	Coax Jacket (Type, OD)	Coax Color Code	Master Jacket	Approx. Weight
VS5230	5	.570"	23 AWG Solid BC	Gas-injected Foam PE, .100"	95% TC Braid, 100% Foil	PVC, .164"	Red, Green, Blue, Yellow, White	TPE, Black	150 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

## Component RGB: Miniature Plenum

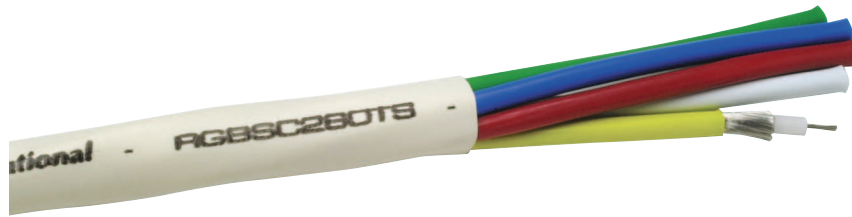
### Features & Benefits

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

### Applications

High Resolution RGB Component  
 Analog Video  
 Permanent Installation

Miniature plenum-rated RGB coax snake that utilizes specialized plenum PVC and other proprietary compounds for improved flexibility compared to conventional high-temperature types. The extra-small diameter coaxials facilitate easy termination to 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	UL Type	Approx. Weight
RGBSC260TS	5	.310"	26 AWG (7x34) Stranded TC	Foam FEP, .072"	100% Foil, 95% TC Spiral Serve	Fluoropolymer, .102"	Red, Green, Blue, Yellow, White	Plenum PVC, White	CL2P	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%	0.90	1.40	2.08	4.90	6.65	9.45	11.0	16.7	20.5

## Component RGB with Category 5E

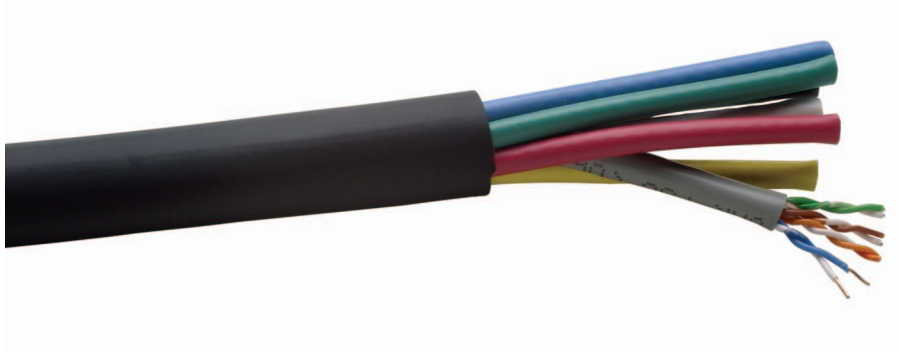
### Features & Benefits

- Six Coaxial Elements
- Category 5E 360MHz Element
- 3 GHz Coaxial Bandwidth (Nonplenum Version)
- Flexible Master Jacket
- 100% Sweep Tested
- UL Rated CM or Plenum

### Applications

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

Hybrid component video cable with a Category 5E network element. The hybrid design of the RGB6C5 series allows for Ethernet, component video, sync, composite video and/or audio to be run within a single cable. The nonplenum version is constructed from low-loss, solid 23 gage, 3GHz coaxial elements, while the plenum version is constructed from stranded 26 gage, 1GHz miniature coaxial elements. The Category 5E element features enhanced bandwidth and electrical specifications that meet and/or exceed TIA/EIA-568-B.2 standards. The outer jacket is extruded from an extra-flexible, CM rated TPE or a flexible and easy-to-strip plenum PVC.



Overall Specifications							
Part #	# of Coaxials	# of Category 5E Elements	Overall Jacket (Type, OD)	UL Type	Approx. Weight		
RGB6C5	6	1	Flexible TPE, .640"	CM	140 lbs/Mft		
Component RGBHVC Six Element Coax with Category 5E							
RGB6C5TS	6	1	Plenum PVC, .460"	CL2P	67 lbs/Mft		
Component RGBHVC Six Element Coax with Category 5E: Plenum							
Coaxial Element Specifications							
Part #	Conductors (Type, DCR)	Insulation (Type, OD)	Shield	Jacket (Type, OD)	Color Code	Impedance	Vel. of Prop.
RGB6C5	23 AWG Solid BC, 20.3 Ω/Mft	Gas-injected Foam PE, .100"	100% Foil, 95% TC Braid	PVC, .164"	Red, Green, Blue, Black, Yellow, White	75Ω	82%
RGB6C5TS	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	Foam FEP, .072"	100% Foil, 95% TC Serve	Plenum PVC, .102"	Red, Green, Blue, Black, Yellow, White	75Ω	85%
Category 5E Specifications							
Part #	Conductors (Type, DCR)	Insulation	Insulation Color Code	Jacket (Type, OD)	Bandwidth	Standards	
RGB6C5	24 AWG Solid BC, 28.6 Ω/Mft	PE	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	PVC, .210"	350 MHz	Meets or Exceeds TIA/EIA-568-B.2 Cat5e, ISO/IEC 11801	
RGB6C5TS	24 AWG Solid BC, 28.6 Ω/Mft	Plenum Thermoplastic	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Plenum PVC, .180"	350 MHz	Meets or Exceeds TIA/EIA-568-B.2 Cat5e, ISO/IEC 11801	

\* See CT504/360 (page 72) for detailed electrical specifications.

## Component RGB with 2 Audio Pairs

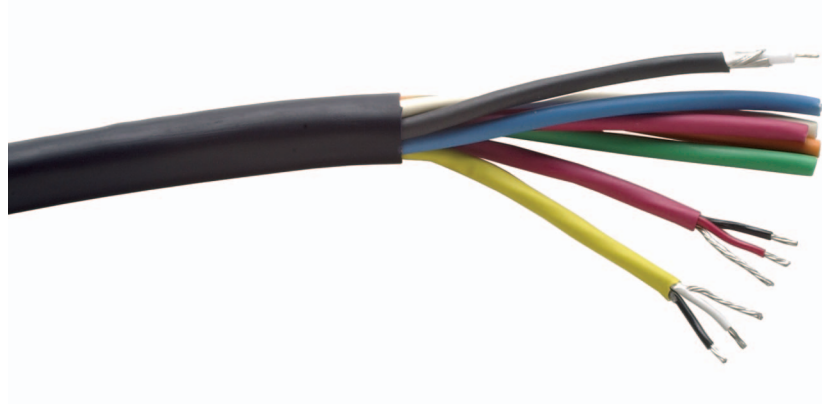
### Features & Benefits

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

### Applications

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

Hybrid component video cable with two balanced audio pairs. The hybrid design of the RGB62 series allows for two channels of balanced audio to be run with component video, sync, and composite video within a single cable. The nonplenum version is constructed from low-loss solid conductor, 3GHz coaxial elements, while the plenum version is constructed from stranded 1GHz miniature coaxial elements. Each audio pair features two twisted 22 gage conductors with a foil shield, drain wire, and color coded jacket. The outer jacket is extruded from an extra-flexible, CM rated TPE or a flexible and easy-to-strip plenum PVC.



### Overall Specifications

Part #	# of Coaxials	# of Audio Pairs	Overall Jacket (Type, OD)	UL Type	Approx. Weight
<b>RGB62</b>	6	2	Flexible TPE, .430"	CM	85 lbs/Mft
<i>Component RGBHVC with Two Balanced Audio Pairs</i>					
<b>RGB62TS</b>	6	2	Plenum PVC, .370"	CL2P	68 lbs/Mft
<i>Component RGBHVC with Two Balanced Audio Pairs: Plenum</i>					

### Coaxial Element Specifications

Part #	Conductors (Type, DCR)	Insulation (Type, OD)	Shield	Jacket (Type, OD)	Color Code	Impedance	Vel. of Prop.
RGB62	26 AWG Solid BC, 40.5 Ω/Mft	Gas-injected Foam PE, .074"	100% Foil, 95% TC Braid	PVC, .114"	Red, Green, Blue, Black, Yellow, White	75Ω	80%
RGB62TS	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	Foam FEP, .072"	100% Foil, 95% TC Braid	Plenum PVC, .102"	Red, Green, Blue, Black, Yellow, White	75Ω	85%

### Audio Pair Specifications

Part #	Conductors (Type, DCR)	Insulation (Type, OD)	Insulation Color Code	Shield	Jacket (Type, OD)	Jacket Color Code
RGB62	24 AWG (7x32) Stranded TC, 23.8 Ω/Mft	PE, .040"	Red & Black, White & Black	100% Foil with 24 AWG (7x32) TC Drain Wire	PVC, .130"	One Red, One Black
RGB62TS	22 AWG (7x30) Stranded TC, 15.3 Ω/Mft	Plenum PVC, .044"	Red & Black, White & Black	100% Foil with 26 AWG (7x30) TC Drain Wire	Plenum PVC, .102"	One Red, One Black

## Component RGB with 4 Audio Pairs & 4 Power Conductors

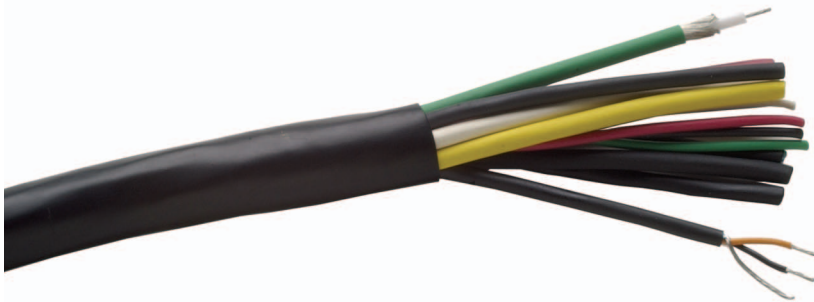
### Features & Benefits

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

### Applications

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

Hybrid component video cable with two balanced audio pairs. The hybrid design of the RGB644 series allows for four power conductors and four channels of balanced audio to be run with component video, sync, and composite video within a single cable. The non-plenum version is constructed from low-loss solid conductor, 3GHz coaxial elements, while the plenum version is constructed from stranded 1GHz miniature coaxial elements. Each audio pair features two twisted 26 gage conductors with a foil shield, drain wire, and color coded jacket. Power elements are constructed from low-loss 20 gage conductors. The outer jacket is extruded from an extra-flexible, CM rated TPE or a flexible and easy-to-strip plenum PVC.



Overall Specifications						
Part #	# of Coaxials	# of Audio Pairs	# of Power Conductors	Overall Jacket (Type, OD)	UL Type	Approx. Weight
<b>RGB644</b>	6	4	4	Flexible TPE, .475"	CM	125 lbs/Mft
<i>Component RGBHVC with Four Audio Pairs &amp; Four Power Conductors</i>						
<b>RGB644TS</b>	6	4	4	Plenum PVC, .415"	CL2P	105 lbs/Mft
<i>Component RGBHVC with Four Audio Pairs &amp; Four Power Conductors: Plenum</i>						

Coaxial Element Specifications							
Part #	Conductors (Type, DCR)	Insulation (Type, OD)	Shield	Jacket (Type, OD)	Color Code	Impedance	Vel. of Prop.
RGB644	26 AWG Solid BC, 40.5 Ω/Mft	Gas-injected Foam PE, .074"	100% Foil, 95% TC Braid	PVC, .114"	Red, Green, Blue, Black, Yellow, White	75Ω	80%
RGB644TS	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	Foam FEP, .072"	100% Foil, 95% TC Serve	Plenum PVC, .102"	Red, Green, Blue, Black, Yellow, White	75Ω	85%

Audio Pair Specifications				Power Conductor Specifications				
Part #	Conductors (Type, DCR)	Insulation (Type, OD, Color)	Shield	Jacket (Type, OD)	Jacket Color Code	Conductors (Type, DCR)	Insulation (Type, OD)	Color Code
RGB644	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	PVC, .033", Black & Red	100% Foil with 26 AWG (7x34) TC Drain Wire	PVC, .090"	Brown, Red, Orange, Yellow	20 AWG (7x28) Stranded TC, 10.1 Ω/Mft	PVC, .053"	Red, White, Black, Green
RGB644TS	26 AWG (7x34) Stranded TC, 38.5 Ω/Mft	Plenum PVC, .033", Black & Red	100% Foil with 26 AWG (7x34) TC Drain Wire	Plenum PVC, .090"	Brown, Red, Orange, Yellow	20 AWG (7x28) Stranded TC, 10.1 Ω/Mft	Plenum PVC, .053"	Red, White, Black, Green

\* See RGBSC260TS (page 46) for detailed coaxial electrical specifications.

## Component RGB: High Definition RG59

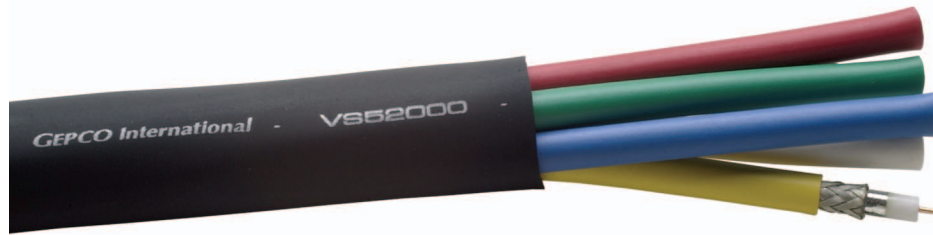
### Features & Benefits

Ultra-low Attenuation & Return Loss  
 RG59 VPM2000 HD Coax Elements  
 Precision 75Ω Impedance  
 3GHz Bandwidth for HDTV  
 High Velocity of Propagation  
 Gas-injected Foam Polyethylene Dielectric  
 Full Copper Braid & Foil Shield  
 Flexible  
 100% Sweep Tested  
 All-weather TPE Master Jacket

### Applications

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

Multi-conductor version of VPM2000 High Definition video coax. Coaxial construction features low attenuation, a 3GHz HD bandwidth, gas-injected dielectric, and broadband shielding. Each coaxial element has precision electrical characteristics and is tested and verified to meet or exceed SMPTE 292M standards for digital video transmission. The outer jacket is extruded from a flexible, abrasion resistant, all-weather TPE compound that remains flexible in low temperature environments. Commonly used for high resolution component analog video, this series can also be used for multiple channels of uncompressed HD video.



### Mechanical Specifications

Part #	# of Coaxials	Nominal OD	Conductors	Insulation (Type, OD)	Shield	Coax Jacket (Type, OD)	Coax Color Code	Master Jacket	Approx. Weight
V552000	5	.745"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% TC Braid, 100% Foil	PVC, .242"	Red, Green, Blue, Yellow, White	TPE, Black	260 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



## Component RGB: High Definition RG6

### Features & Benefits

- Ultra-low Attenuation & Return Loss
- RG6 VSD2001 HD Coax Elements
- Precision 75Ω Impedance
- 3GHz Bandwidth for HDTV
- High Velocity of Propagation
- Gas-injected Foam Polyethylene Dielectric
- Full Copper Braid & Foil Shield
- Flexible
- Low-friction Jacket
- All-weather GEP-FLEX Master Jacket
- 100% Sweep Tested
- CMR Riser Rated

### Applications

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

Multi-conductor version of VSD2001 High Definition video coax. Coaxial construction features low attenuation, a 3GHz HD bandwidth, gas-injected dielectric, and broadband shielding. Each coaxial element has precision electrical characteristics and is tested and verified to meet or exceed SMPTE 292M standards for digital video transmission. The outer jacket is extruded from Gepco's dual purpose GEP-FLEX TPE that is flexible and abrasion resistant for portable applications, yet is also UL rated and easy to install in conduit. Commonly used for high resolution component analog video, the VS2001 series can also be used for multiple channels of uncompressed HD video.



Mechanical Specifications (Series)					
Conductors	Insulation (Type, OD)	Shield	Coax Jacket (Type, OD)	Master Jacket	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

## HDTV Ten-channel Video Snake: Miniature 23 Gage

### 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 & Foil Shield  
 100% Sweep Tested  
 All-weather TPE Master Jacket

### Applications

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

Miniature 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

## HDTV Ten-channel Video Snake: RG59 & RG6

### 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 & Foil Shield
- 100% Sweep Tested
- All-weather TPE Master Jacket

### Applications

- HD/SDI Digital Video
- Digital Audio (AES3id or SPDIF)
- High Resolution Analog Video
- Portable Snakes
- Ideal for Extended Distance Runs

Ten-channel video snake of High Definition RG6 or RG59 coaxial elements. Coaxial elements are identical to individual Gepco VPM2000 or VSD2001 cables, which feature a 3GHz bandwidth, precision tolerances, and meet or exceed SMPTE 292M standards for uncompressed HD video interconnections. Each coax has a precision diameter, solid center conductor, a low-loss, gas-injected dielectric, and is shielded with a 100% foil and dense 95% TC braid. These materials achieve the bandwidth and tolerances required for 1.485Gb/s uncompressed HD video and are also exceptionally durable and crush resistant. The outer jacket is extruded from an all-weather TPE that is flexible and abrasion resistant.



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
VS102001	10	1.25"	18 AWG Solid BC	Gas-injected Foam PE, .180"	95% TC Braid, 100% Foil	PVC, .272"	Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black	TPE, Black	600 lbs/Mft

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
VS102000	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
VS102001	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

## Broadband & Distribution Coax

### Features & Benefits

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

### Applications

Broadband Data  
 Distributed Satellite  
 CATV  
 MATV

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



### Mechanical Specifications

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

### Electrical Specifications

Part #	Impedance	Max Return Loss (1-455MHz), (455MHz-2.4GHz)	Capacitance	Cond. DCR per Mft	Shield DCR per Mft	Vel. of Prop.	Attenuation (dB per 100 ft)											
							1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz	1.2 GHz	1.45 GHz	2.4 GHz
VB20 Series	75 Ω (+/-3)	>17dB, >15dB	16.2 pF/ft	46.0 Ω	7.3 Ω	83%	0.26	0.81	1.75	2.42	3.33	4.76	6.42	7.28	7.69	8.51	9.45	12.4
VB18 Series	75 Ω (+/-3)	>20dB, >17dB	16.2 pF/ft	31.9 Ω	60% shield: 9.0 Ω 90% shield: 7.0 Ω Quad shield: 5.3 Ω	83%	0.24	0.65	1.39	1.92	2.65	3.78	3.98	5.83	6.15	6.81	7.56	9.90
VB18 Plenum Series	75 Ω (+/-3)	>21dB, >15dB	16.0 pF/ft	31.9 Ω	90% shield: 7.2 Ω Quad shield: 5.5 Ω	84%	0.30	0.70	1.50	2.10	3.10	4.50	6.00	6.90	7.30	8.08	8.97	12.0
VB14 Series	75 Ω (+/-3)	>20dB, >17dB	16.2 pF/ft	14.3 Ω	60% shield: 6.9 Ω	84%	0.22	0.50	0.99	1.28	1.76	2.66	3.67	4.20	4.51	4.90	5.38	6.90
VB14 Plenum Series	75 Ω (+/-3)	>21dB, >15dB	16.2 pF/ft	14.3 Ω	4.8 Ω	84%	0.19	0.39	1.10	1.70	2.50	3.50	4.60	5.30	5.60	6.08	6.70	8.80

## Precision Video Coax

### Features & Benefits

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

### Applications

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

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



Mechanical Specifications (Individual)														
Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket (Type, Colors)	UL Type	Approx. Weight						
VP618PE	1	.304"	20 AWG Solid BC	PE, .198"	Double Braid: 98% & 96% TC	PE, Black	-----	75 lbs/Mft						
20 AWG Precision Coax														
VP618M	1	.304"	21 AWG (19x34) Stranded BC (Compact)	PE, .192"	Double Braid: 95% & 93% TC	Flexible Matte PVC, Black	-----	78 lbs/Mft						
20 AWG Precision Coax: Extra-flexible														
Electrical Specifications														
Part #	Impedance	Return Loss (100kHz-1GHz)	Capacitance	Cond DCR per Mft/ Shield DCR per Mft	Vel. of Prop	Attenuation (dB per 100 ft)								
						1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
VP618PE	75 Ω (+/-3)	>23dB	20.3 pF/ft	10.2 Ω/1.1 Ω	66%	0.25	0.78	1.91	2.70	3.82	5.40	7.32	8.74	9.20
VP618M	75 Ω (+/-3)	>23dB	20.3 pF/ft	14.3 Ω/1.1 Ω	66%	0.28	0.91	2.14	3.22	4.70	7.12	9.90	11.1	12.1

## Head End Coax

### Features & Benefits

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

### Applications

Drop Cable  
 CATV

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



### Mechanical Specifications

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

RG59 Head End Cable

### Electrical Specifications

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

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

## CCTV Coax

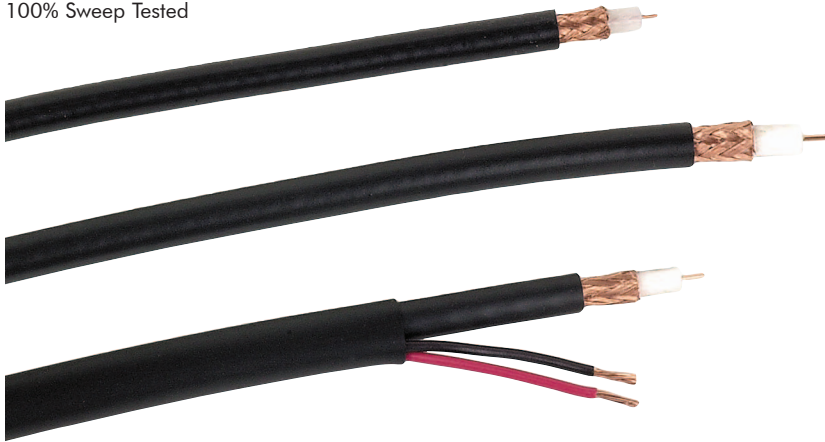
### Features & Benefits

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

### Applications

- CCTV
- Security Cameras
- General Distribution

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



Mechanical Specifications															
Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Power Pair Construction	Jacket (Type, Colors)	UL Type	Approx. Weight						
<b>VJ59U</b>	1	.242"	23 AWG Solid CCS	Solid PE, .146"	95% BC Braid	N/A	PVC, Black	CM	36 lbs/Mft						
<i>RG59 Standard Coax</i>															
<b>VC2095</b>	1	.242"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% BC Braid	N/A	PVC, Black or White	CMR	34 lbs/Mft						
<i>RG59 CCTV Coax</i>															
<b>VC2095TS *</b>	1	.200"	20 AWG Solid BC	Gas-injected Foam FEP, .135"	95% BC Braid	N/A	Plenum PVC, White	CMP	30 lbs/Mft						
<i>RG59 CCTV Coax: Plenum</i>															
<b>VC2095/2PZ</b>	1 Coax 2 Power	.242" x .482"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% BC Braid	(2) 18 AWG (7x26) Stranded BC, .008" PVC Insulation	PVC, Black or White	CM	64 lbs/Mft						
<i>RG59 CCTV Coax &amp; Power Pair: Dual-zip</i>															
<b>VC2095/2PJ</b>	1 Coax 2 Power	.285" x .355"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% BC Braid	(2) 18 AWG (7x26) Stranded BC, .008" PVC Insulation	Black PVC Coax Jacket, White or Black Overall Jacket	CM	66 lbs/Mft						
<i>RG59 CCTV Coax &amp; Power Pair: Overall Jacket</i>															
<b>VC1895</b>	1	.272"	18 AWG Solid BC	Gas-injected Foam PE, .180"	95% BC Braid	N/A	PVC, Black or White	CMR	44 lbs/Mft						
<i>RG6 CCTV Coax</i>															
<b>VC1895TS *</b>	1	.237"	18 AWG Solid BC	Gas-injected Foam FEP, .170"	95% BC Braid	N/A	Plenum PVC, White	CMP	38 lbs/Mft						
<i>RG6 CCTV Coax: Plenum</i>															
Electrical Specifications															
Part #	Impedance	Return Loss (100kHz-455MHz), (455MHz-1GHz)	Capacitance	Cond. DCR per Mft	Shield DCR per Mft	Vel. of Prop.	Attenuation (dB per 100 ft)								
							1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
VJ59U	75 Ω (+/-3)	>17dB, >15dB	21.0 pF/ft	52.0 Ω	2.7 Ω	66%	0.32	1.02	2.44	3.55	5.18	7.68	10.76	12.64	13.56
VC2095 Series	75 Ω (+/-3)	>17dB, >15dB	16.2 pF/ft	10.2 Ω	2.7 Ω	83%	0.23	0.78	1.79	2.56	3.70	5.34	7.10	8.01	8.51
VC2095TS	75 Ω (+/-3)	>17dB, >15dB	16.0 pF/ft	10.2 Ω	2.9 Ω	84%	0.24	0.85	2.04	2.92	4.20	6.27	8.92	10.60	11.49
VC1895	75 Ω (+/-3)	>17dB, >15dB	16.2 pF/ft	6.4 Ω	2.7 Ω	83%	0.19	0.64	1.48	2.15	3.09	4.51	6.12	7.00	7.40
VC1895TS	75 Ω (+/-3)	>17dB, >15dB	16.0 pF/ft	6.4 Ω	2.2 Ω	84%	0.21	0.65	1.40	2.04	2.94	4.46	5.89	7.47	8.02

\* 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  
 100% Sweep Tested

### Applications

Networking  
 Wireless Systems  
 VSAT

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



### Mechanical Specifications

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

### Electrical Specifications

Part #	Impedance	Return Loss	Capacitance	Cond. DCR per Mft	Shield DCR per Mft	Vel. of Prop.	Attenuation (dB per 100 ft)										
							1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz	1.45 GHz	1.8 GHz
V5020	50 Ω (+/-3)	>15dB (100kHz-1GHz)	28.5 pF/ft	4.1 Ω	13.5 Ω	73%	0.45	1.42	3.20	4.50	6.40	9.00	12.00	13.80	14.5	---	---
V5010	50 Ω (+/-3)	>15dB (100kHz-1.8GHz)	23.5 pF/ft	.92 Ω	1.4 Ω	84%	0.11	0.35	0.83	1.20	1.77	2.63	3.50	3.98	4.25	5.10	6.05



## Composite A/V: Dual Zip

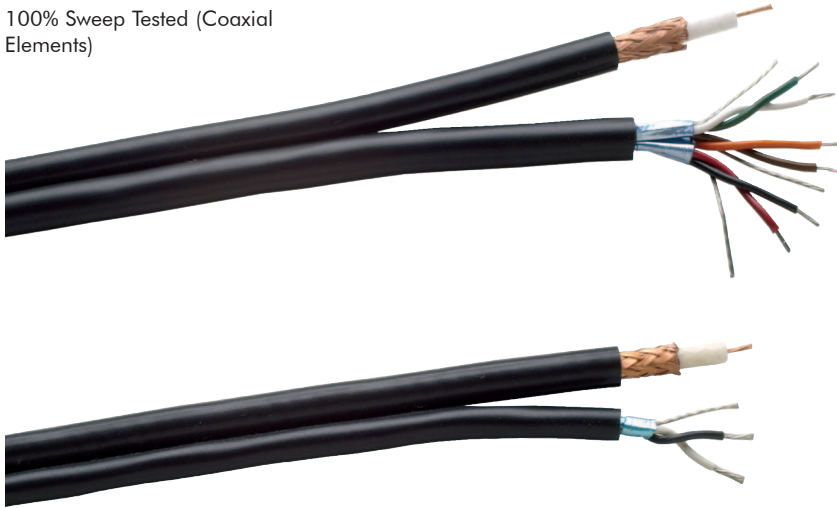
### Features & Benefits

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

### Applications

- Analog Video
- Microphone or Line Level Balanced Analog Audio

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



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

Coax Specifications																
Conductor	Insulation (Type, OD)	Shield	Impedance	Return Loss (100kHz-1GHz)	Capacitance	Cond. DCR per Mft/Shield DCR per Mft	Vel. of Prop.	Attenuation (dB per 100 ft)								
								1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz
21 AWG (19x34) Stranded BC	Gas-injected Foam PE, .146"	95% BC Braid	75 Ω (+/-3)	>20dB	17.3 pF/ft	14.3 Ω/2.7 Ω	78%	0.39	1.01	2.27	3.23	4.63	6.74	9.34	10.8	11.5

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

## Composite A/V: Thin Profile

### Features & Benefits

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

### Applications

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

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



### Coax Mechanical Specifications

Conductor	Insulation (Type, OD)	Shield	Coax Jacket (Type, OD)
25 AWG (7x33) Stranded BC	Gas-injected Foam PE, .099"	95% TC Braid, 100% Foil	PVC, .154"

### Single-pair Mechanical Specifications

Conductor	Insulation (Type, OD)	Color Code	Shield	Drain	Jacket (Type, OD)
22 AWG (7x30) Stranded TC	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

## Composite A/V: Low Loss

### Features & Benefits

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

### Applications

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

Multi-element coax and twisted-pair snake cable that utilizes low-loss, High Definition RG59 type coax. Coaxial construction is identical to single VPM2000 for low attenuation & return loss, 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											

## CAMERA CABLES

### In This Section:

- 64 Flexible Studio/Remote Triax
- 65 Permanent Install Triax
- 66 9.2mm Hybrid Fiber Optic
- 67 12mm Heavy-duty Hybrid Fiber Optic
- 68 HD Camera Electrical Cable
- 69 Indoor Single-mode Fiber Optic

# High Bandwidth Fiber & Triaxial Cables for Camera to CCU Interconnections



### All-weather Jacket

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

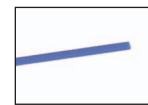


### Gas-injected Dielectric

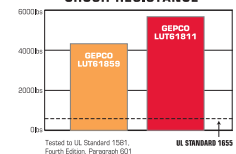
Gepco's proprietary gas-injection process blends nitrogen and plastic polymers to produce a dielectric that reduces high frequency attenuation, while maintaining uniform cell structure, return loss, and exceptional crush resistance.

### High Tensile Strength Fiber Coating

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



### CRUSH RESISTANCE



### Crush Resistant

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

### Heat Resistant

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

## Electrical Characteristics & Specifications

### Meets or Exceeds SMPTE Standards

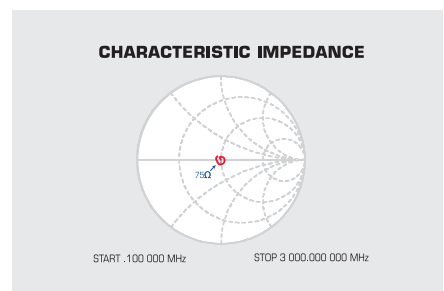
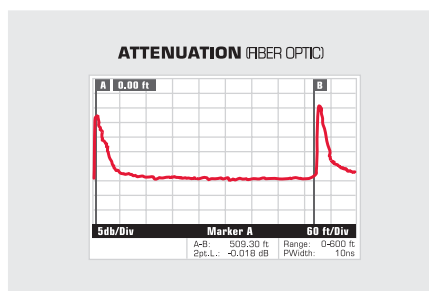
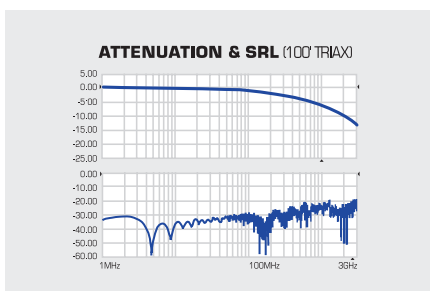
All Gepco HD coax meets or exceeds SMPTE triaxial and 311M standards for camera interconnections. In addition, all triax is 100% sweep tested for return loss, attenuation, bandwidth, and impedance.

### Low Attenuation

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

### Precision Impedance

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



## Flexible Studio/Remote Triax

### Features & Benefits

Ultra-low Attenuation  
 Precision 75Ω Impedance  
 3GHz Bandwidth  
 Low Structural Return Loss  
 High Velocity of Propagation  
 Flexible  
 Crush Resistant Dielectric  
 Gas-injected Foam Polyethylene Dielectric  
 Two Isolated Copper Braids  
 All-weather TPE Master Jacket

### Applications

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

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



### Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Inner Shield	Inner Belt (Type, OD)	Outer Shield	Jacket	Jacket Colors	Approx. Weight
LVT61811	1	.515"	14 AWG (19x27) Stranded BC	Gas-injected Foam PE, .312"	95% BC Braid	PE, .392"	95% BC Braid	TPE	Black, Red, Yellow, Green, Blue	136 lbs/Mft
<i>Extended Distance RG11 Flexible Triax</i>										
LVT61859	1	.360"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% BC Braid	PE, .216"	95% BC Braid	TPE	Black, Red, Yellow, Green, Blue, Violet	80 lbs/Mft
<i>Thin Profile RG59 Flexible Triax</i>										
LVT61859S	1	.360"	21 AWG (19x34) Stranded BC (Compact)	Gas-injected Foam PE, .146"	95% BC Braid	PE, .216"	95% BC Braid	TPE	Black, Red, Blue	80 lbs/Mft
<i>Thin Profile RG59 Flexible Triax: Stranded</i>										

### Electrical Specifications

Part #	Impedance	Return Loss (100kHz-1GHz), (1GHz-3GHz)	Capacitance	Cond. 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								
VT12PPE	1	.726"	12 AWG (7x22) Stranded BC	Gas-injected Foam PE, .375"	90% TC Braid	PE, .463"	90% BC Braid	Double Jacket PVC, Red (Inner); PE, Black (Outer)	-----	270 lbs/Mft								
<i>Double-jacketed, 12 AWG Triax</i>																		
VT61811	1	.475"	14 AWG Solid BC	Gas-injected Foam PE, .285"	93% BC Braid	PVC, .365"	93% BC Braid	PVC, Black	CMR	120 lbs/Mft								
<i>Extended Distance RG11 Triax</i>																		
VT61811PEF	1	.475"	14 AWG Solid BC	Gas-injected Foam PE, .285"	93% BC Braid	PE, .365"	93% BC Braid	PE with Water Blocking Tape, Black	-----	125 lbs/Mft								
<i>Extended Distance RG11 Triax: Direct Burial</i>																		
VT61811TK		.413"	14 AWG Solid BC	Gas-injected Foam FEP, .285"	93% BC Braid	PVDF, .350"	90% BC Braid	PVDF, White	CMP	122 lbs/Mft								
<i>Extended Distance RG11 Triax: Plenum</i>																		
VT61859	1	.360"	20 AWG Solid BC	Gas-injected Foam PE, .146"	95% BC Braid	PVC, .216"	95% BC Braid	PVC, Black	CMR	80 lbs/Mft								
<i>Thin Profile RG59 Triax</i>																		
Electrical Specifications																		
Part #	Impedance	Return Loss (100kHz-1GHz), (1GHz-3GHz)	Capacitance	Cond. DCR per Mft	Inner Shield DCR per Mft/Outer Shield DCR per Mft	Vel. of Prop.	Nominal Attenuation (dB per 100 ft)											
							1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz
VT12PPE	75 Ω (+/-3)	>20dB, >15dB	16.2 pF/ft	1.6 Ω	1.0 Ω/9 Ω	83%	0.07	0.12	0.22	0.63	0.80	1.20	1.52	2.35	2.89	3.73	4.92	6.03
VT61811	75 Ω (+/-3)	>22dB, >15dB	16.2 pF/ft	2.5 Ω	1.4 Ω/1.4 Ω	84%	0.14	0.28	0.43	1.09	1.50	2.30	2.68	4.05	5.00	6.28	7.95	9.60
VT61811PEF	75 Ω (+/-3)	>22dB, >15dB	16.2 pF/ft	2.5 Ω	1.4 Ω/1.4 Ω	84%	0.14	0.28	0.43	1.09	1.50	2.30	2.68	4.05	5.00	6.28	7.95	9.60
VT61811TK	75 Ω (+/-3)	>20dB, >15dB	16.5 pF/ft	2.5 Ω	1.4 Ω/1.3 Ω	84%	0.14	0.25	0.40	1.22	1.82	2.86	3.35	5.30	6.58	8.90	11.95	14.88
VT61859	75 Ω (+/-3)	>22dB, >15dB	16.3 pF/ft	10.2 Ω	2.6 Ω/2.0 Ω	83%	0.28	0.55	0.87	2.10	2.98	4.20	4.78	7.00	8.30	10.48	13.40	15.92



## 9.2mm Hybrid Fiber Optic

### 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 $\mu$ Mode Field, 125 $\mu$ 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
<b>HDC920</b>	9.20mm	Flexible TPE, Black	95% TC Braid	AWM	90 lbs/Mft
		<i>Extra-flexible 9.2mm Hybrid Camera Cable</i>			
<b>HDC920R</b>	9.20mm	PVC, Black	95% TC Braid	CMR	91 lbs/Mft
		<i>Permanent Install 9.2mm Hybrid Camera Cable</i>			

### 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 $\Omega$ /Mft	9.7 $\Omega$ /Mft	5.4 $\Omega$ /Mft	>10M $\Omega$ /km	3000 Volts RMS @ 20°C, 60Hz for 1 min.	-40°C to +75°C (@ 0 to 95% humidity)	311M Compliant (Meets or Exceeds)

## 12mm Heavy-duty Hybrid Fiber Optic

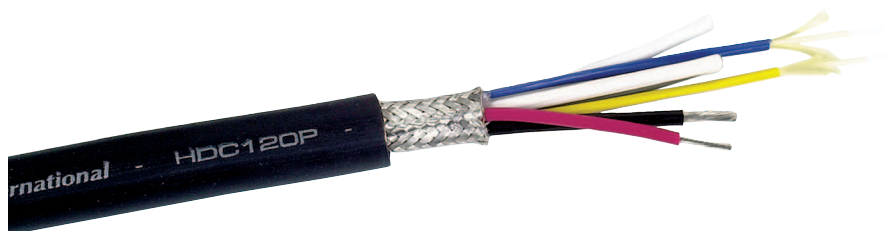
### Features & Benefits

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

### Applications

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

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



### Mechanical Specifications (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	24 AWG (19x36) Stranded TC	PE, .044"	One Red, One Gray
Auxiliary	2	16 AWG (65x34) Stranded TC	PE, .084"	One White, One Black
Strength Member	1	16 AWG Stranded Steel	PVC, .087"	One White

### Mechanical Specifications

Part #	Nominal OD	Master Jacket (Type, Colors)	Overall Shield	Approx. Weight
<b>HDC120P</b>	12mm	Polyurethane, Black	95% TC Braid	135 lbs/Mft

*Heavy Duty 12mm Hybrid Fiber 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	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  
 Riser or Plenum Rated

### Applications

Interconnection of Electrical Contacts from CCUs to HD Cameras  
 For Permanent Installation Environments  
 Used in Conjunction with Single-mode Indoor Fiber  
 Ideal for Use with Gepco HDR Hybrid Fiber Distribution Rack Systems

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



### Mechanical Specifications

Part #	# of Conductors	Nominal OD	Auxiliary Conductors	Auxiliary Insulation (Type, OD)	Signal Conductors	Signal Insulation	Shield	Jacket (Type, Colors)	UL Type	Approx. Weight
HDP221	2 Auxiliary 2 Signal	.315"	16 AWG (65x34) Stranded TC	PE, .020"	22 AWG (19x34) Stranded TC	PE, .015"	90% TC Braid	PVC, Black	CMR	76 lbs/Mft
<i>Single-channel HD Electrical Cable</i>										
HDP221P	2 Auxiliary 2 Signal	.205"	16 AWG (65x34) Stranded TC	FEP, .010"	22 AWG (19x34) Stranded TC	FEP, .010"	90% TC Braid	Plenum PVC, White	CMP	58 lbs/Mft
<i>Single-channel HD Electrical Cable: Plenum</i>										

### Electrical & Optical Specifications

Signal Conductor DCR	Power Conductor DCR	Shield DCR	Insulation Resistance (Power or Signal)	Dielectric Strength (Power or Signal)	Operating Temperature	SMPTE Standard
15.3 Ω/Mft	4.5 Ω/Mft	2.6 Ω/Mft	>10M Ω/km	3000 Volts RMS @ 20°C, 60Hz for 1 min.	-40°C to +75°C (@ 0 to 95% humidity)	Compliant with Electrical Specifications for SMPTE 311M

**Note:** Speed-wrap or multi-pair jacket versions available upon special request.

# Indoor Single-mode Fiber Optic

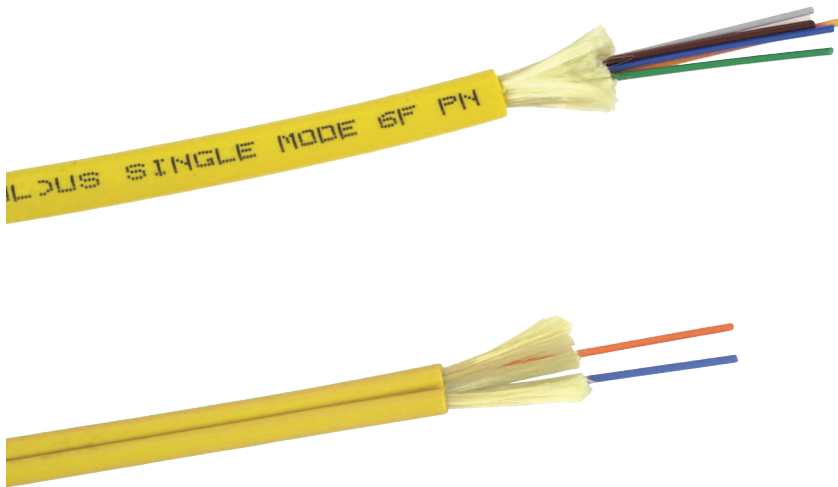
## Features & Benefits

- Low-loss, Single-mode Optical Glass Fibers
- Minimal Modal Dispersion
- Distribution & Breakout Type Constructions
- Kevlar Filler
- 2 Through 12 Elements
- Riser or Plenum Rated

## Applications

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

Low-loss, single-mode, fiber optic cable available in breakout and distribution type constructions, UL plenum or riser rated. The modal dispersion characteristics of single-mode glass enable transmission of high bit-rate data, thereby making this fiber type ideal, and the standard, for HD video signal transmission. When used in conjunction with Gepco electrical HD cables and the HDR distribution rack system, 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			
FSD**R *=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	
<i>Premise Distribution: Riser Rated</i>											
FSD**P *=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	
<i>Premise Distribution: Plenum Rated</i>											
FSB**R *=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	
<i>Breakout: Riser Rated</i>											
FSB**P *=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	
<i>Breakout: Plenum Rated</i>											

Please see fiber buffer color code chart #4 on page 130.

## NETWORK CABLES

### In This Section:

- 72** Category 5E Network
- 73** Category 6 Network
- 74** Heavy-duty Tactical Cat5e Network Cable: Extra-flexible
- 75** Heavy-duty Tactical Cat5E Cable: Low-loss
- 76** Ultra-low Skew UTP
- 77** Low-capacitance Multi-pair
- 78** Two-pair Shielded
- 79** DMX512 Lighting Control Cable
- 80** AMX AXLink™
- 81** Elan Via!
- 82** Touch Panel Control
- 83** Touch Panel Hybrid
- 84** Multi-mode Fiber Optic
- 85** Indoor Single-mode Fiber Optic

# System-specific Designs that Deliver Complete Data & Networking Solutions



### Low-loss, Data-grade Dielectric

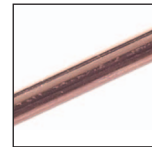
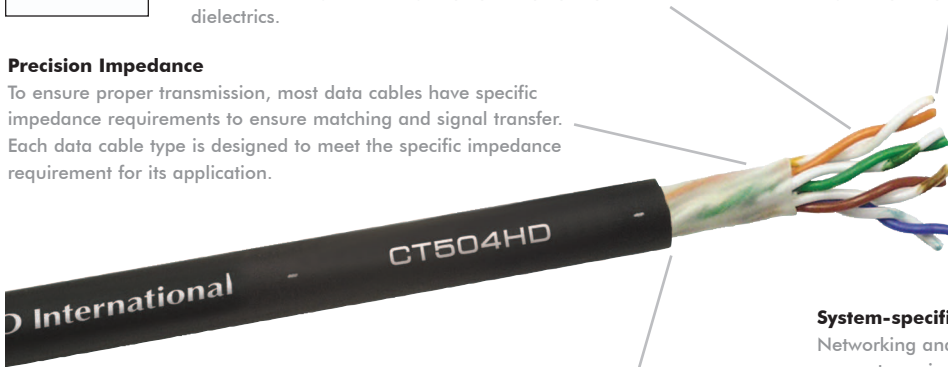
Data transmission requires exceptional bandwidth compared to conventional cable types. To achieve the required bandwidth and impedance characteristics, Gepco data cables utilize only low-loss, data-grade nitrogen/polymer, polyethylene, or PVC dielectrics.

### High Purity Copper

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

### Precision Impedance

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



### Easy to Terminate

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

### System-specific Designs

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

## Electrical Characteristics & Specifications

### Meets or Exceeds Industry Standards

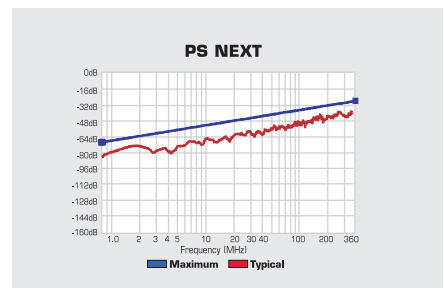
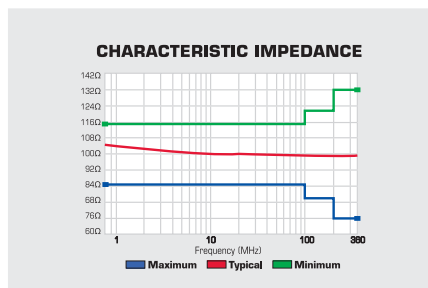
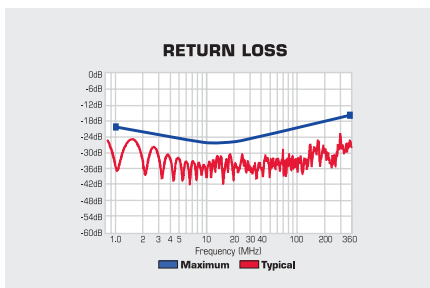
Each cable is designed to meet or exceed all relevant industry or manufacturer standards. This ensures compatibility and consistent performance in networking, touch panel, audio and video systems.

### Precision Characteristic Impedance

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

### Tested & Verified

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



## Category 5E Network

### Features & Benefits

Low Insertion Loss, Crosstalk, & Return Loss  
 Enhanced 360MHz Bandwidth  
 Precision 100Ω Impedance  
 Four Twisted-pairs  
 Characterized up to or Beyond TIA/EIA Standards  
 Category 5e Compliant  
 ETL Verified  
 Riser & Plenum Versions

### Applications

Ethernet or Gigabit Ethernet  
 High Data-rate Applications

Gepco category 5 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 a 360MHz bandwidth. Each reel is ETL verified to ensure consistent quality and performance to meet all TIA specifications. 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							

### Electrical Specifications

Part #	DCR Max	DCR Unbal. Max	Mutual Capac. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop. (Nonplenum, 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



## Category 6 Network

### Features & Benefits

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

### Applications

- Ethernet or Gigabit Ethernet
- High Data-rate Applications

Gepco category 6 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 or 450MHz bandwidths. Each reel is ETL verified to ensure consistent quality and performance to meet all TIA specifications. 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						
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												

Electrical Specifications																						
Part #	DCR Max	DCR Unbal. Max	Mutual Capac. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop. (Nonplenum, 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

## Heavy-duty Tactical Cat5e Network Cable: Extra-flexible

### Features & Benefits

Durable TPE Outer Jacket

Extra-flexible

Unique Inner Belt Maintains Electrical Characteristics in Portable Applications

Meets or Exceeds ISO/IEC 11801 Standard for Cat5e Patch Cable

Stranded 24 Gage Conductors for Exceptional Flex-life

100MHz Bandwidth

Terminates with Neutrik EtherCon® Connectors

### Applications

Ethernet Network Patching

For Portable Use or Remote Environments

Heavy-duty tactical Category 5e cable for portable or remote patching of Ethernet networks or digital audio/video formats that utilize CAT5e type interconnects. The CT504HD features exceptional durability and flexibility through a unique double jacket construction and stranded copper conductors. The inner jacket of the CT504HD allows the pair to have proper physical spacing to achieve ISO/IEC CAT5e specifications, while the durable TPE outer jacket protects the cable from physical damage or abuse. The CT504HD is intended for use with Neutrik EtherCon® connectors and is also available from Gepco as preterminated cable assemblies.



### Mechanical Specifications

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

### Electrical Specifications

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

## Heavy-duty Tactical Cat5E Cable: Low-loss

### Features & Benefits

- Durable TPE Outer Jacket
- Flexible
- Unique Inner Belt Maintains Electrical Characteristics in Portable Applications
- Meets or Exceeds ISO/IEC & TIA Standards for Cat5e Cable
- 24 Gage Solid Conductors
- 350MHz Bandwidth
- Terminates with Neutrik EtherCon® Connectors

### Applications

- Ethernet Network Patching
- For Portable Use or Remote Environments

Heavy-duty tactical Category 5E 350MHz cable for portable or remote patching of Ethernet networks or digital audio/video formats that utilize CAT5E type interconnects. The CT504HDX features the same double jacket construction as the original CT504HD for exceptional durability, but with solid conductors for lower attenuation that allows for the full recommended TIA distances for Cat5E network cable. The inner jacket maintains the proper physical spacing between pairs to achieve the ISO/IEC or TIA Cat5e specifications, while the durable TPE outer jacket protects the cable from physical damage or abuse. The CT504HDX is intended for use with Neutrik EtherCon® connectors and is also available from Gepco as preterminated cable assemblies.



### Mechanical Specifications

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

### Electrical Specifications

DCR Max	DCR Unbal. Max	Mutual Capac. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop.	Standards											
28.6 Ω	5%	17 pF/ft	100 Ω	45 ns/100m	69%	Meets or Exceeds TIA/EIA-568-B.2 Cat 5e, ISO/IEC 11801											
	Freq. (MHz)	0.772	1	4	8	10	16	20	25	31.25	62.5	100	155	200	250	300	350
	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	44.9
	PSNEXT (dB)	64.0	62.3	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.4	32.3	29.5	27.8	26.3	25.2	24.2
	PSACR (dB/100m)	62.2	60.3	49.2	43.0	40.8	36.1	33.5	30.9	28.2	18.4	10.3	1.4	-4.6	-10.6	-15.8	-20.7
	PSELFEXT (dB/100m)	63.0	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8	16.9	14.7	12.8	11.2	9.9
	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

## Ultra-low Skew UTP

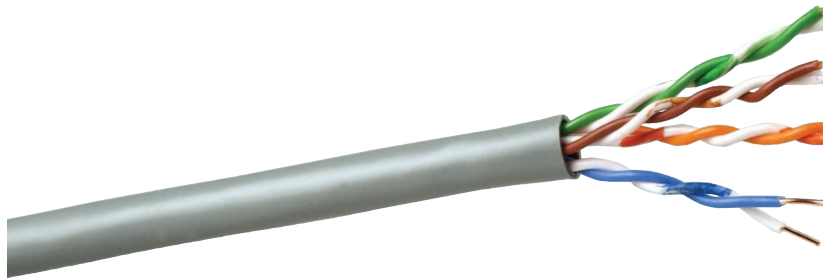
### Features & Benefits

- Low 2ns Skew
- Four Pairs
- 23 Gage Solid Copper Conductors
- Cost Effective
- UL Rated for Permanent Installation

### Applications

- RGB Analog Video Transmission
- Not Rated for Data Networking Applications

Four-pair, unshielded, twisted-pair cable for low-cost, component analog video transmission. Each pair is constructed from 23 gage solid copper conductors, insulated with a data-grade PVC dielectric. Unlike category-grade data networking cables, the LSK ultra-low skew cables feature a constant pair lay with a maximum time delay differential of 2.0 nano seconds (per 100m) between any two pairs. This allows for the red, green, and blue components of the video signal to arrive with near zero time delay. As a result, timing errors due to cable skew are minimized and each component of the video signal remains synchronized.



### Mechanical Specifications

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

### Electrical Specifications

Part #	DCR Max	DCR Unbal. Max	Mutual Capac. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop. (Nonplenum, Plenum)												
LSK04	28.6 Ω	5%	17 pF/ft	100 Ω	2.0 ns/100m	69%, 72%												
LSK04P			Freq. (MHz)			0.772	1	4	8	10	16	20	25	31.25	62.5	100		
			Insertion Loss (dB/100m)			1.7	1.9	3.9	5.5	6.2	7.9	8.9	10.0	11.3	16.3	21.2		

## Low-capacitance Multi-pair

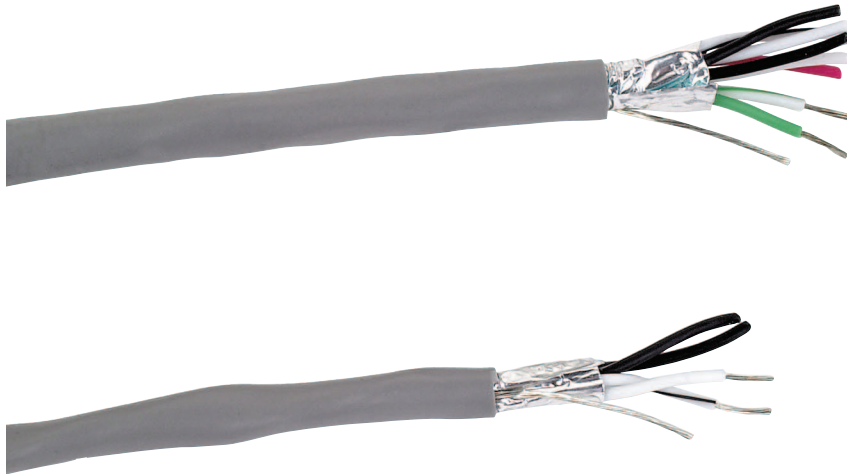
### Features & Benefits

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

### Applications

- General Purpose Data
- Machine Control
- Extended Distance Runs

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



Mechanical Specifications (Series)					
Conductors	Insulation/ Color Code	Overall Shield	Overall Drain Wire	Jacket	UL Type
24 AWG (7x32) Stranded TC	PE, .015" Wall/See Color Code Chart #3, Page 130	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 shares a single tinned-copper drain wire. Insulation is a high-grade polyethylene that provides both improved electrical and temperature characteristics compared to PVC. Ideal for general purpose data or machine control applications.



### Mechanical Specifications (Individual)

Part #	# of Pairs	Nominal OD	Conductors	Insulation/Color Code	Shield	Common Drain Wire	Jacket (Type, Colors)	UL Type	Approx. Weight
6600	2	.173"	22 AWG (7x30) Stranded TC	PE, .008" Wall/ Red & Black, White & Green	100% Foil (Each Pair)	24 AWG (7x32) Stranded TC	PVC, Black or Gray	CM	21 lbs/Mft
	<i>Audio/Control Two-pair</i>								
6600HS	2	.178"	22 AWG (7x30) Stranded TC	Halar, .011" Wall/ Red & Black, White & Green	100% Foil (Each Pair)	24 AWG (7x32) Stranded TC	Plenum PVC, White	CMP	22 lbs/Mft
	<i>Audio/Control Two-pair: Plenum</i>								

### Electrical Specifications

Part #	Capacitance	Cond. DCR	Drain DCR
6600	29 pF/ft between conductors, 53 pF/ft between one conductor and other tied to shield	15.3 Ω/Mft	23.8 Ω/Mft
6600HS	27 pF/ft between conductors, 50 pF/ft between one conductor and other tied to shield	15.3 Ω/Mft	23.8 Ω/Mft

## DMX512 Lighting Control Cable

### Features & Benefits

- True DMX512 Construction
- Two Low-capacitance Data Pairs
- Double Shield (Foil & Braid)
- Drain Wire for Easy Shield Termination
- Color-coded Conductors for Easy Identification
- Meets or Exceeds USITT Standards
- Durable, Flexible, All-weather Jacket

### Applications

- DMX512 Lighting Control
- Remote or Permanent Installation

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



### Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductors	Insulation/Color Code	Shield	Drain Wire	Jacket	Approx. Weight
DLC224	4	.270"	24 AWG (7x32) Stranded TC	Foam PE, .020" Wall/ White & Black, Red & Blue	100% Foil, 90% TC Braid	24 AWG (7x32) Stranded TC	Flexible All-weather TPE, Black	44 lbs/Mft

### Electrical Specifications

Capacitance	Characteristic Impedance	Cond. DCR	Shield & Drain DCR
12 pF/ft between conductors, 21.6 pF/ft between one conductor and other tied to shield	120 Ω	23.8 Ω/Mft	3.0 Ω/Mft

### Recommended Pinout for 5-pin XLR:

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



## AMX AXLink™

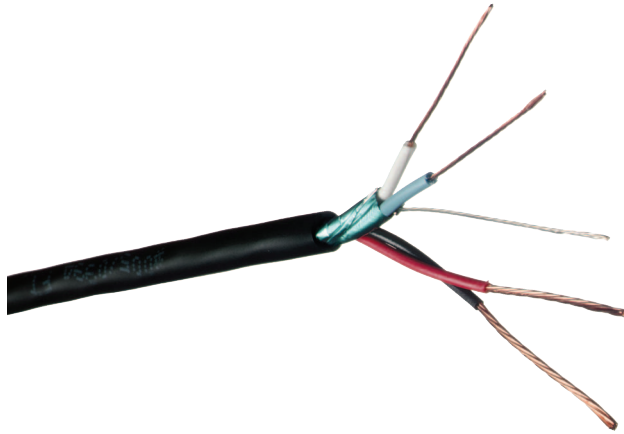
### Features & Benefits

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

### Applications

- AMX AXLink™ Systems
- Networking & Automation

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



### Mechanical Specifications

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

### Electrical Specifications

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

# Elan Via!

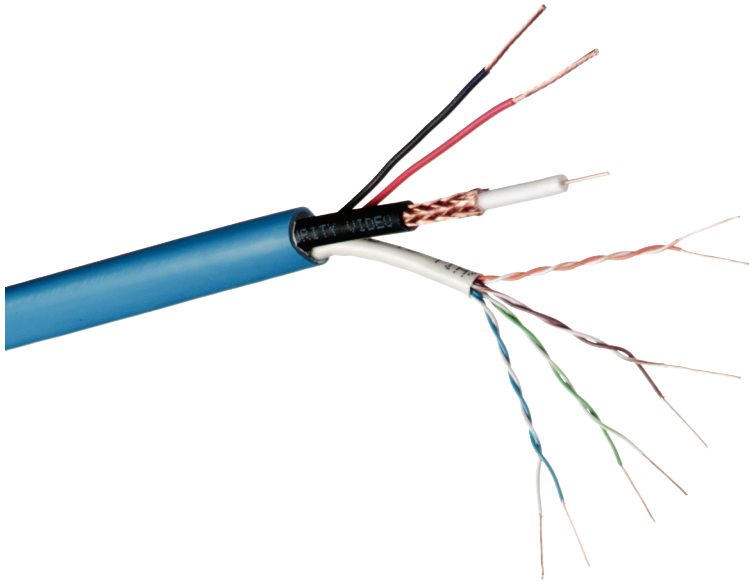
## Features & Benefits

- Cat5E Element
- RG59 Coax Element
- 18 Gage Power Conductors
- Common Outer Jacket with Color Stripe
- UL Rated for Permanent Installation

## Applications

- Elan Via! Touch Panel Systems
- Networking & Automation

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



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

Cat5E ELEMENT SPECIFICATIONS, See Page #72 (pn#CT504/360)  
 RG6Q ELEMENT SPECIFICATIONS, Consult Factory for Detailed Specifications (pn#IR201V59)

## Touch Panel Control

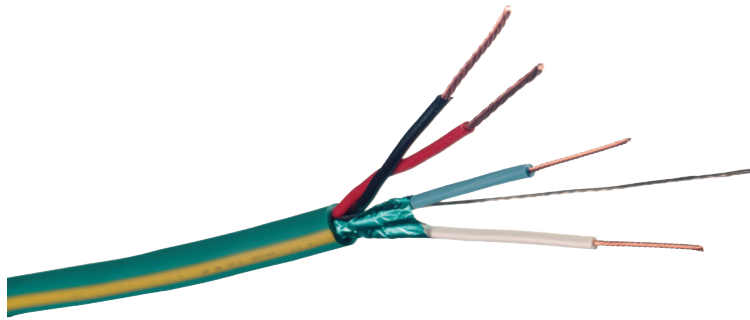
### Features & Benefits

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

### Applications

Touch Panel Control  
 Networking & Automation

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



### Mechanical Specifications

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

### Electrical Specifications

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

## Touch Panel Hybrid

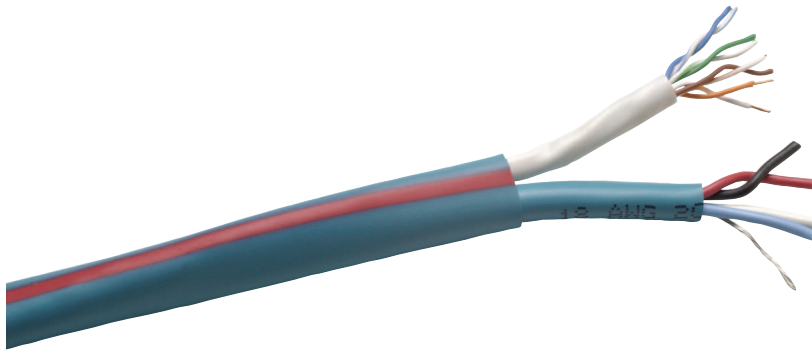
### Features & Benefits

- Touch Panel Elements
- Cat5E Elements
- RG6 Coax Elements (Optional)
- Common Outer Jacket for Easy Pulling
- UL Rated for Permanent Installation

### Applications

- Touch Panel Systems
- Networking & Automation

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



Mechanical Specifications							
Part #	Control Elements (#, Color)	Cat5E Elements (#, Color)	RG6Q Elements (#, Color)	Master Jacket (Type, Color)	Overall Diameter	UL Type	Weight
18/22CCT	1, Teal with Yellow Stripe	1, White	N/A	PVC, Teal with Red Stripe	.524"	CL3/FT-4	98 lbs/Mft
18/22CCD	1, Teal with Yellow Stripe	2, One White, One Gray	N/A	PVC, Teal with Black Stripe	.547"	CL3/FT-4	130 lbs/Mft
18/22CCQ	1, Teal with Yellow Stripe	4, One White, One Green, One Gray, One Blue	N/A	PVC, Teal with White Stripe	.652"	CL3/FT-4	189 lbs/Mft
18/22CDC	1, Teal with Yellow Stripe	2, One White, One Gray	2 Black & White	PVC, Teal with Orange Stripe	.750"	CL3/FT-4	177 lbs/Mft
18/22QM	1	1 (15ns/100m skew)	N/A	Dual-zip PVC, Teal	.462" x .242"	CL3/FT-4	70 lbs/Mft
18/22QMP	1	1 (15ns/100m skew)	N/A	Dual-zip Plenum PVC, Teal	.385" x .195"	CMP	66 lbs/Mft

Touch Panel Control ELEMENT SPECIFICATIONS, See Page #82 (pn#18/22CRT)  
 Cat5E ELEMENT SPECIFICATIONS, See Page #72 (pn#CT504/360 (except on QM and QMP Types)  
 RG6Q ELEMENT SPECIFICATIONS, Consult Factory for Detailed Specifications (pn#181VQ6)

## Multi-mode Fiber Optic

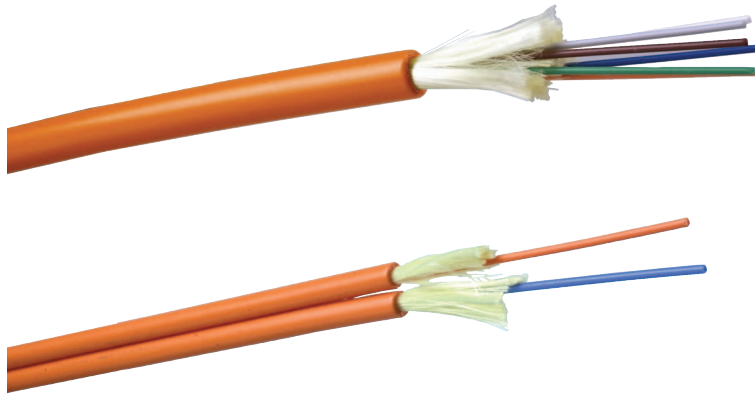
### Features & Benefits

Low-loss, Multi-mode Optical Glass Fibers  
 Low Modal Dispersion  
 Distribution & Breakout Type Constructions  
 Kevlar Filler  
 2 Through 12 Elements  
 Riser or Plenum Rated

### Applications

For Permanent Installation  
 Indoor/Outdoor Data Networking

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



### Fiber Specifications

Type	Mode Field Diameter	Cladding Diameter	Maximum Attenuation
Multi-mode	62.5 $\mu$	125 $\mu$	3.50 dB/Km @ 850nm, 1.00 dB/Km @ 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			
<b>FMD**R</b> * = Number of Elements	PVC Tight Buffer Coating with Overall Kevlar Filler (.9mm OD)	PVC (Orange)	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	
<i>Multi-mode Distribution Fiber: Riser Rated</i>											
<b>FMD**P</b> * = Number of Elements	Plenum PVC Tight Buffer Coating with Overall Kevlar Filler (.9mm OD)	Plenum PVC (Orange)	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	
<i>Multi-mode Distribution Fiber: Plenum Rated</i>											
<b>FMB**R</b> * = Number of Elements	PVC Tight Buffer Coating (.9mm OD) with Kevlar Filler & PVC Tube Jacket (2.5mm OD)	PVC (Orange)	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	
<i>Multi-mode Breakout Fiber: Riser Rated</i>											
<b>FMB**P</b> * = Number of Elements	Plenum PVC Tight Buffer Coating (.9mm OD) with Kevlar Filler & PVC Tube Jacket (2.5mm OD)	Plenum PVC (Orange)	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	
<i>Multi-mode Breakout Fiber: Plenum Rated</i>											

Please see fiber buffer color code chart #4 on page 130.

# Indoor Single-mode Fiber Optic

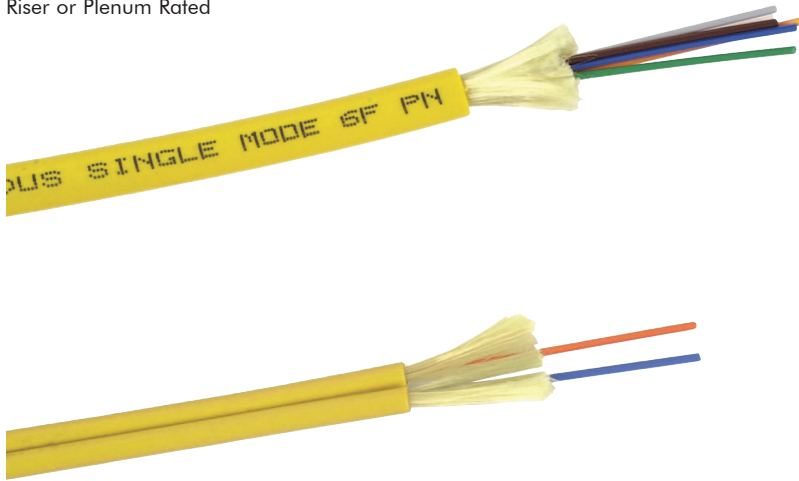
## Features & Benefits

- Low-loss, Single-mode Optical Glass Fibers
- Minimal Modal Dispersion
- Distribution & Breakout Type Constructions
- Kevlar Filler
- 2 Through 12 Elements
- Riser or Plenum Rated

## Applications

- For Permanent Installation
- Indoor/Outdoor Data Networking

Low-loss, single-mode, fiber optic cable available in breakout and distribution type constructions, UL plenum or riser rated. The modal dispersion characteristics of single-mode glass enable transmission of high bit-rate data, thereby making this fiber type ideal, and the standard, for HD video signal transmission. When used in conjunction with Gepco electrical HD cables and the HDR distribution rack system, 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			
FSD**R * = 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	
<i>Premise Distribution: Riser Rated</i>											
FSD**P * = 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	
<i>Premise Distribution: Plenum Rated</i>											
FSB**R * = 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	
<i>Breakout: Riser Rated</i>											
FSB**P * = 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	
<i>Breakout: Plenum Rated</i>											

Please see fiber buffer color code chart #4 on page 130.

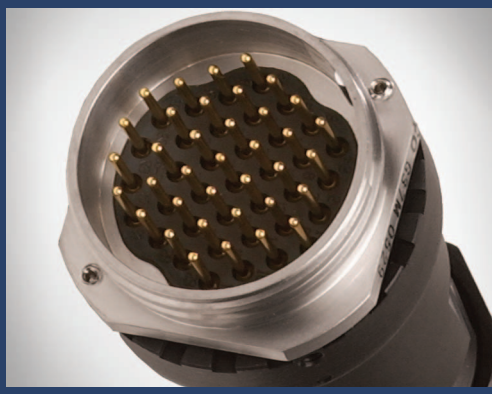
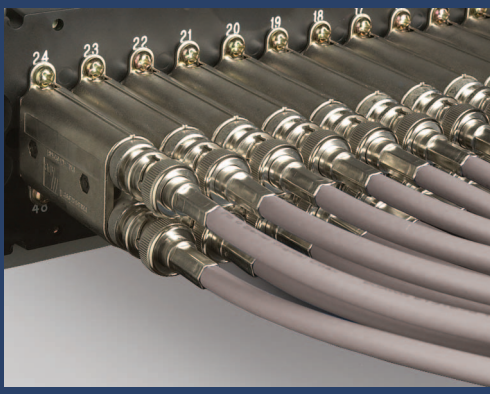
## INTERCONNECT SOLUTIONS

### In This Section:

- 88 Microphone: Quad Star
- 89 Microphone: X-Band
- 90 Microphone: Thin Profile
- 91 Microphone: Heavy Duty
- 92 Speaker: 1/4" Speaker
- 93 Speaker: Speakon®
- 94 GEP-FLEX Multi-pair Audio Snakes
- 95 X-Band Multi-pair Audio Snakes
- 96 Stage Box Snakes
- 97 DT12 Snakes
- 98 DT12 Fanout
- 99 DT12 Breakout Box
- 100 110Ω Digital Audio Single Wire
- 101 110Ω Digital Audio Snakes
- 102 SPDIF Digital Audio
- 103 Word Clock
- 104 Heavy-duty Tactical Cat5e Network Cables
- 105 DMX512 Lighting Control Cable
- 106 High Definition Coax
- 107 Flexible Video Coax
- 108 HDTV Video Patchcords: Standard WECO
- 109 HDTV Video Patchcords: Midsize
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- 114 HDTV Video Snakes
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- 119 Hybrid Fiber Breakout Box: 4.5" Single-channel
- 120 Hybrid Electrical & Fiber Component Distribution Rack
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- 122 Angled Triax Panel
- 123 Angled Triax & Hybrid Fiber Panel
- 124 Custom Assemblies & Panel Harnessing
- 126 G37 Twelve-channel DT12 Connectors
- 128 XLR Binding Post Adapters
- 128 Triax to Coax Adapters
- 129 Triax Tester
- 129 DT12 Audio Tester



# Cable Assemblies & Distribution Systems for Complete Interconnect Solutions

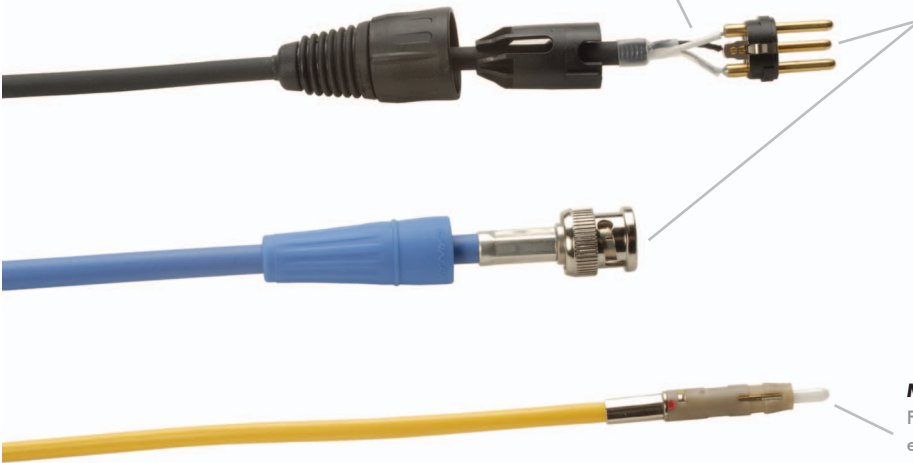


## Proven Termination Methods

Cable and connectors are terminated with industry-proven termination methods such as heat shrink, sleeving, and strain relief systems. These components provide additional durability that extends the operating life of terminated cable.

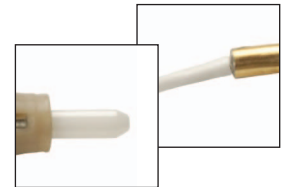
## Premium Brand Connectors

Industry-proven connector brands deliver the performance and durability required for professional cable interfacing. Gepco stocks or can special order connectors from most pro audio and video connector manufacturers.



## Soldered or Crimped Contacts

Most electrical contacts are either soldered or crimped to ensure durability, performance, and precise mechanical alignment. Unlike over-molded insulation displacement types, most connectors in Gepco cable assemblies can be repaired or modified, and offer improved durability and operating life.



## Machine Polished Fiber Contacts

Fiber optic contacts are machine polished to achieve exceptionally low attenuation and back reflection. The precision of machine polishing ensures proper ferule shaping for tight tolerance alignment between fiber contacts.

## Electrical Characteristics & Specifications

### Precision Tolerances

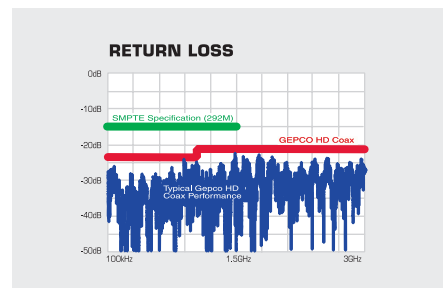
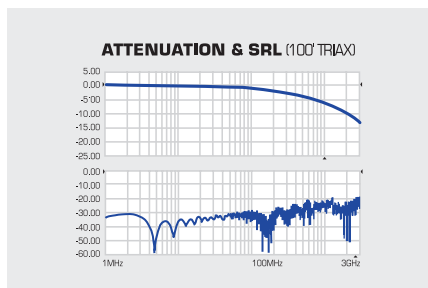
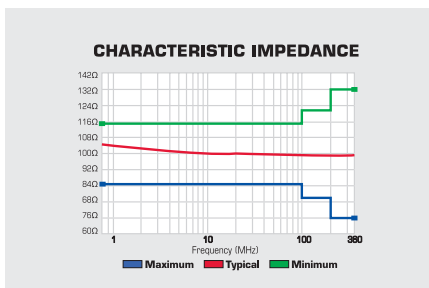
Gepco interconnect solution products feature precision mechanical and electrical specifications to ensure maximum signal transfer and impedance matching.

### Tested and Verified

All cables and cable assemblies are 100% tested and verified to ensure consistent and reliable performance in every application.

### Meets or Exceeds Industry Standards

Interconnect solution products meet or exceed all relevant industry standards for audio, video, and networking cabling and interconnection standards.



## Microphone: Quad Star

### Features & Benefits

Flexible  
 Four 24 Gage Conductors  
 Exceptional RF/EMI Rejection  
 Heavy 95% Braid Shield  
 Neutrik XLRs with Gold-plated Contacts  
 Hand Soldered

### Applications

Microphone to Preamp Interconnection  
 Studio Recording or Remote Production

Low-noise, Quad Star XLR microphone cable for use in studio, stage, or remote environments. The outer jacket is extruded from Gepco's extra-flexible PVC compound and is available in six color options. The conductive elements consist of double balanced pairs, two conductors per signal element (two per high, two per low). This quad configuration provides exceptional noise rejection, especially from high frequency RF interference. Shielding and common-mode noise rejection are achieved with a dense 95% tinned copper braid and tight and uniform pair twisting.

As with all Gepco microphone cables, the Quad Star series is hand soldered with gold-plated Neutrik connectors. In addition to being exceptionally durable, these connectors can easily be repaired or modified, allowing for user serviceability and custom configurations. Available in standard lengths, the Quad Star series can also be produced in almost any custom length requirement.



### Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>Quad Star Microphone</b>				
<i>Low Noise Design for Enhanced Rejection in High RF Environments</i>				
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

## Microphone: X-Band

### Features & Benefits

- Extra-flexible
- Wide Bandwidth
- 22 Gage Oxygen-free Conductors
- Data-grade Gas/Polymer Dielectric
- Dense 95% Copper Braid
- Exceptional RF/EMI & Common-mode Noise Rejection
- Terminated with Neutrik XLRs with Gold-plated Contacts

### Applications

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

Gepco's new extra-flexible, high bandwidth X-Band microphone cable series has been specifically designed for use in critical recording studio facilities or live sound venues.

Sonically transparent, the X-Band cables have a wide frequency response and exceptional RF/EMI noise rejection. These attributes are achieved by utilizing a video-grade foam dielectric that significantly reduces the capacitance, as well as cabling the pairs with a tight and precise twist. Conductors are made from finely-stranded, oxygen-free copper to maximize conductivity and protect against corrosion. To shield and provide additional noise rejection, each pair is shielded with a dense 95% copper braid.

Flexibility in the X-Band Microphone cables has also been greatly improved. The cables feature Gepco's G-Flex compound that is both flexible and durable. Combined with the core elements, this compound can achieve exceptional flaccidity and flex-life. The X-Band microphone series is available in multiple colors.



Assemblies & Specifications				
Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>X-Band Microphone Cable</b>				
<i>High Bandwidth, Extra-flexible</i>				
XB201M	Neutrik Black & Gold XLRs NC3FX-B, NC3MX-B	10', 15', 20', 25', 35', 50', 100'	Black, Red, Yellow, Green, Blue, Violet	GMC20-0-(length)-MFNBG

## Microphone: Thin Profile

### Features & Benefits

- Thin Profile
- Extra-flexible
- Low Noise
- Heavy 95% Braid Shield
- Neutrik XLRs with Gold-plated Contacts
- Hand Soldered

### Applications

- Microphone to Preamp Interconnection
- Studio Recording or Remote Production

Thin profile XLR microphone cable for use in studio, stage, or remote environments. The outer jacket is extruded from Gepco's extra-flexible PVC compound and is available in four color options. The conductive elements consist of two 24 gage conductors that are insulated with a low-loss polyethylene dielectric. Together, these materials reduce both the DC and capacitive losses within the cable. Shielding and common-mode noise rejection are achieved with a dense 95% tinned copper braid and tight and uniform pair twisting.

As with all Gepco microphone cables, the thin profile series is hand soldered with gold-plated Neutrik connectors. In addition to being exceptionally durable, these connectors can easily be repaired or modified, allowing for user serviceability and custom configurations. Available in standard lengths, the thin profile series can also be produced in almost any custom length requirement.



### Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>Thin Profile Microphone</b>				
<i>Reduced Diameter &amp; Low Weight</i>				
MP1022	Neutrik Black & Gold XLRs NC3FX-B, NC3MX-B	10', 15', 20', 25', 35', 50', 100'	Black, Red, Green, Blue	GMC2-(color)-(length)-MFNBG

## Microphone: Heavy-duty

### Features & Benefits

- Rugged TPE Jacket
- Low-loss 20 Gage Conductors
- Heavy 95% Braid Shield
- Neutrik XLRs with Gold-plated Contacts
- Hand Soldered
- Flexible

### Applications

- Microphone to Preamp Interconnection
- Studio Recording or Remote Production

Extra-durable, low-loss XLR microphone cable for use in remote or hostile environments. The outer jacket is extruded from Gepco's weather-flex TPE compound, which is exceptionally durable, abrasion resistant, and remains flexible in low temperature environments. To further improve durability and reduce the attenuation over long distance runs, the heavy-duty series features 20 gage tinned copper conductors that are insulated with .020" of polyethylene dielectric. Together, these materials reduce both the DC and capacitive losses within the cable. Shielding and common-mode noise rejection are achieved with a dense 95% tinned copper braid and tight and uniform pair twisting.

As with all Gepco microphone cables, the heavy-duty series is hand soldered with gold-plated Neutrik connectors. In addition to being exceptionally durable, these connectors can easily be repaired or modified, allowing for user serviceability and custom configurations. Available in standard lengths, the heavy-duty series can also be produced in almost any custom length requirement.



### Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>Heavy-duty Remote Microphone</b>				
<i>Extra-durable Construction for Hostile Environments</i>				
M1042	Neutrik Black & Gold XLRs NC3FX-B, NC3MX-B	10', 15', 20', 25', 35', 50', 100'	Black	GMC3-0-(length)-MFNBG

## Speaker: 1/4" Speaker

### Features & Benefits

Flexible  
 All-weather Durability  
 Extra-fine Copper Conductors  
 Low Resistance  
 Terminated with Switchcraft 1/4" Connectors

### Applications

Speaker to Amplifier Interconnects  
 For Portable, Outdoor, or Studio Use

Low-loss, two-conductor speaker cable in a flexible and round construction. The densely stranded 13 gage copper conductors have exceptionally low DC resistance and excellent flex-life, making this series ideal for portable and repeated use. The outer jacket is extruded from Gepco's all-weather TPE compound that is durable, abrasion resistant, and remains flexible in low temperature environments.

Cables are terminated with oversized Switchcraft 1/4" TS connectors. In addition to being exceptionally durable, these connectors can easily be repaired or modified, allowing for user serviceability and custom configurations. Available in standard lengths, this series can also be produced in almost any custom length requirement.



### Assemblies & Specifications

# of Conductors	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>Two-pole 1/4" TS</b>					
<i>Flexible, Rugged 13 AWG Portable Cable</i>					
2	GSC132	(2) Switchcraft 188 Jumbo 1/4" TS	6', 10', 20', 30', 50', 75', 100'	Black	GHD2-(length)-SQ

## Speaker: Speakon®

### Features & Benefits

- Flexible
- All-weather Durability
- Extra-fine Copper Conductors
- Low Resistance
- Terminated with Neutrik Speakon® Connectors

### Applications

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

Multi-conductor, low-loss speaker cable in a flexible and round construction. The densely stranded 13 gage copper conductors have exceptionally low DC resistance and excellent flex-life, making this series ideal for portable and repeated use. Available in two, four, or eight conductor versions, this series can be used for either bi-amping or for multiple enclosures to be interconnected by a single cable. The outer jacket is extruded from Gepco's all-weather TPE compound that is exceptionally durable, abrasion resistant, and remains flexible in low temperature environments.

Cables are terminated with Neutrik Speakon® connectors. In addition to being exceptionally durable, these connectors can easily be repaired or modified, allowing for user serviceability and custom configurations. Available in standard lengths, the Speakon® series can also be produced in almost any custom length requirement.



Assemblies & Specifications					
# of Conductors	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>Two-pole Speakon®</b>					
<i>Flexible, Rugged 13 AWG Portable Cable</i>					
2	GSC132	Neutrik Speakon® (2) NL2FC	6', 10', 20', 30', 50', 75', 100'	Black	GHD2-(length)-NSP
<b>Four-pole Speakon®</b>					
<i>Flexible, Rugged 13 AWG Portable Cable</i>					
4	GSC134	Neutrik Speakon® (2) NL4FC	6', 10', 20', 30', 50', 75', 100'	Black	GHD4-(length)-NSP
<b>Eight-pole Speakon®</b>					
<i>Flexible, Rugged 13 AWG Portable Cable</i>					
8	GSC138	Neutrik Speakon® (2) NL8FC	6', 10', 20', 30', 50', 75', 100'	Black	GHD8-(length)-NSP



## GEP-FLEX Multi-pair Audio Snakes

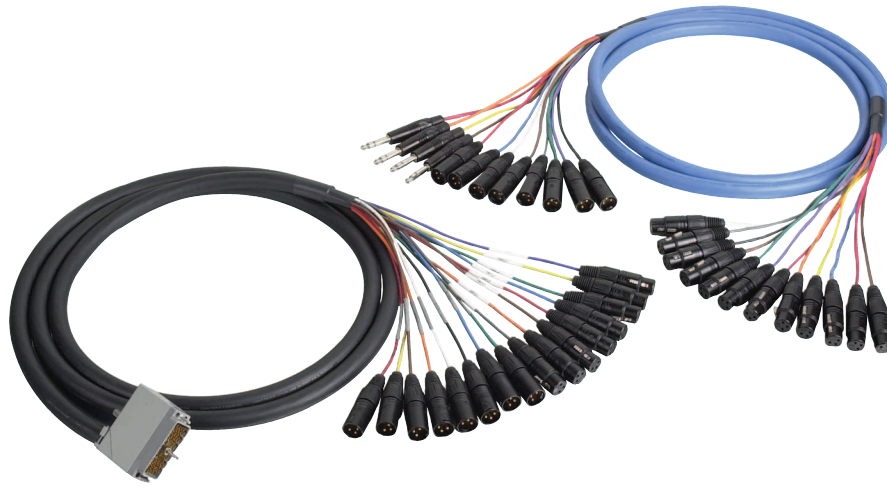
### Features & Benefits

Pair Jackets for Low Crosstalk  
 Low Noise  
 Color Coded & Numbered Channels  
 Flexible  
 Durable  
 Premium 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 1/4" phone plugs, EDAC and D-sub type connectors.



### Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	# of Channels	Available Cable Colors	Part #
<b>GEP-FLEX 22 AWG Analog Audio Snake</b> <i>Flexible, Low-noise Multi-pair</i>					
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
<b>GEP-FLEX 24 AWG Analog Audio Snake</b> <i>Extra-flexible, Low-noise Multi-pair</i>					
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

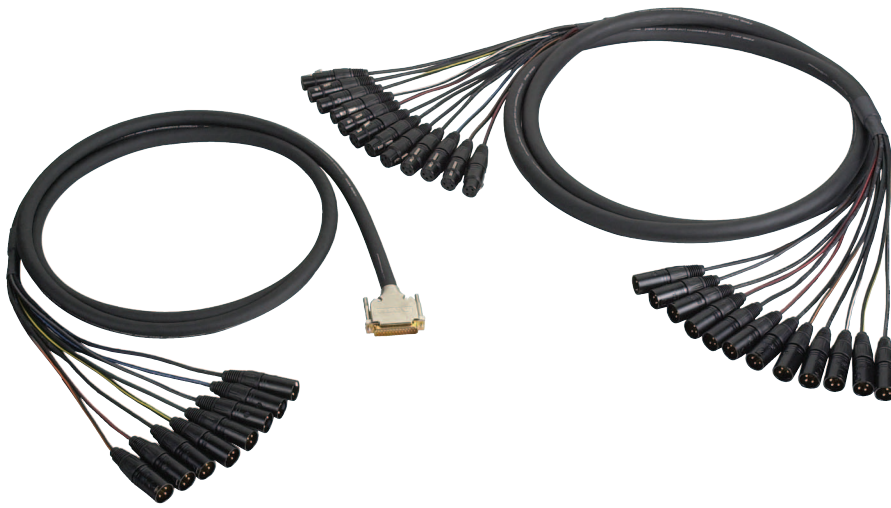
- Ultra-flexible
- Extended Bandwidth/Low Capacitance
- Superior Noise Rejection
- Braided Pair Shields
- Durable
- Color Coded Stripe & Numbered Channels
- Gold-plated Contacts
- Hand Soldered Neutrik and/or Metal Shell Multi-pin Connectors

## 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 features an 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 crosstalk between channels.



## Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	# of Channels	Available Cable Colors	Part #
<b>X-Band Analog Audio Snake</b>					
<i>Ultra-flexible, Extended Bandwidth, Low-noise Multi-pair</i>					
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

Multiple Channel & Return Options  
 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 #
<b>GEP-FLEX Stage Box Snake</b>						
<i>Extra-flexible, Low-noise Multi-pair</i>						
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) <sup>†</sup>

### Part # Code

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

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

## DT12 Snakes

### Features & Benefits

- Exceptionally Durable
- Flexible
- Completely Weather Tight
- FK37-DT12 Pinout Compatible
- Set-screws & Castellations Eliminate Accidental Back Shell Loosening
- Integrated Kellm Stain Relief
- Mil-spec Gold-plated Contacts
- Stainless Steel Housing Shell (Male)
- Scalloped Neoprene Insulator is Crack-proof & Prevents Rotation
- All-metal Backshell

### Applications

- Twelve Channel Balanced Audio
- Mic or Line Level

Twelve-channel audio snake terminated with Gepco's fourth-generation G37 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 GEP-FLEX thermo-plastic, or an extra-rugged polyurethane.

Gepco's new fourth generation G37 series connectors feature an all-metal back-shell, constructed from hard anodized aluminum with reverse threads and an o-ring seal, which locks in place with two set-screws into a series of castellations. The front connector shell is now constructed from stainless steel (male end) to prevent connector damage and keyway wear. Gepco's crack-proof neoprene insulator now has a bonded and scalloped design that prevents rotation. Electrical contacts now feature a new 3 micron, mil-spec, gold plating for improved soldering and tarnish resistance. For the strain relief, the G37 features an oversized rubber gland seal, kelleem cord grip, and over-body heat shrink.



Assemblies & Specifications					
# of Pairs	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>GEP-FLEX Analog Audio Twelve-pair DT12 Snake</b>					
<i>Flexible, Low-noise 22 AWG Multi-pair</i>					
12	GA61812GFC	Gepco All-metal 37-pin Circular DT12 Connector (1) G37M, (1) G37F	50', 100', 165', 250', 330', 500'	Blue	DTSNK(length)MF61812G
<b>Heavy-duty Analog Audio Twelve-pair DT12 Snake</b>					
<i>Extra-tough Polyurethane Jacket and 22 AWG Conductors</i>					
12	DT61812	Gepco All-metal 37-pin Circular DT12 Connector (1) G37M, (1) G37F	50', 100', 165', 250', 330', 500'	Black	SNK(length)MFDT61812G

## DT12 Fanout

### Features & Benefits

Neutrik XLRs  
 Completely Weather Tight  
 FK37-DT12 Pinout Compatible  
 Breakout with Rugged MP1022 Mic Cable  
 Set-screws & Castellations Eliminate Accidental Back Shell Loosening  
 Mil-spec Gold-plated Contacts  
 Stainless Steel Housing Shell (Male)  
 Scalloped Neoprene Insulator is Crack-proof & Prevents Rotation  
 All-metal Backshell

### Applications

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

Twelve-channel audio breakout from a G37 all-metal DT12 multi-pin connector to 12 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.

Gepco's new fourth generation G37 series connectors feature an all-metal backshell, constructed from hard anodized aluminum with reverse threads and an o-ring seal, which locks in place with two set-screws into a series of castellations. The front connector shell is now constructed from stainless steel (male end) to prevent connector damage and keyway wear. Gepco's crack-proof neoprene insulator now has a bonded and scalloped design that prevents rotation. Electrical contacts now feature a new 3 micron, mil-spec, gold plating for improved soldering and tarnish resistance. For the strain relief, the G37 features an oversized rubber gland seal and kelle cord grip.



### Assemblies & Specifications

# of Pairs	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>DT12 Input Fanout: G37 Male to XLR Female</b>					
<i>Multi-pin Breakout with 24 AWG Microphone Cable</i>					
12	MP1022	Gepco All-metal DT12 & Neutrik Black & Gold XLRs (1) G37M, (12) NC3FX-B	3'	Black (Blue, Red or Green Available on Special Order)	DTFAN36F12MG
<b>DT12 Output Fanout: G37 Female to XLR Male</b>					
<i>Multi-pin Breakout with 24 AWG Microphone Cable</i>					
12	MP1022	Gepco All-metal DT12 & Neutrik Black & Gold XLRs (1) G37F, (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-DT12 Pinout Compatible
- Passive Split Options
- 1/8" Anodized Aluminum Chassis
- Modular & Customizable
- New G37 Panel Mount Connectors

### 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 12 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 twelve-channel configuration or with multi-pin and/or XLR parallel passive splits.

The DT12 multi-pin connector has been upgraded to the new G37 multi-pin series. Gepco's G37, fourth generation DT12 connector features a stainless steel male housing, mil-spec gold plated contacts, and a scalloped insulator that is crack-proof and prevents rotation.



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

G37 dust caps 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  
 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 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 nonconductive 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 #
<b>Low-loss AES/EBU Single-pair: Extra-flexible</b>				
<i>Low Attenuation for Extended Distance Runs</i>				
DS401M	Neutrik Black & Gold XLRs NC3FX-B, NC3MX-B	5', 10', 15', 25', 35', 50', 75', 100'	Violet	DWB110-(length)
<b>Thin Profile AES/EBU Single-pair: Extra-flexible</b>				
<i>Reduced Diameter for Standard Length Runs</i>				
DS601M	Neutrik Black & Gold XLRs NC3FX-B, NC3MX-B	5', 10', 15', 25', 35', 50'	Black	GMC11-0-(length)-MFNBG



# 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
- 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 nonconductive polyethylene filler rod, shielded, and isolated with color-coded pair jackets. These construction techniques lower the attenuation, minimize crosstalk, and stabilize 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 #
<b>Extended Distance 24 AWG Digital Audio Snake</b> <i>Low Attenuation for Extended Distance Runs</i>					
DS4 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
<b>Thin Profile 26 AWG Digital Audio Snake</b> <i>Reduced Diameter for Standard Length Runs</i>					
DS6 Series	Varies, See Connector Options Below	10', 15', 25', 35', 50', 75', 100', 150', or Custom	4, 8, 12, 16, or 24	Black 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 Digital Audio

### Features & Benefits

- Ultra-flexible
- Precision 75Ω Impedance
- Ultra-low Attenuation & Pulse Rounding
- 3GHz Double-shielded Coaxial Cable
- 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 VHD2000M coax used in this cable features a stranded center conductor, double 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 to 200MHz for digital data and video transmission.



### Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>Precision 75 Ω SPDIF Cable: Extra-flexible</b>				
<i>Low-loss, Gas-injected Dielectric RG59 Video Coax</i>				
VHD2000M	Canare Gold Crimp 75Ω RCAs (2) RCAP-C4F	5', 10', 15', 25', 35', 50'	Black, Red, Orange, Yellow, Green, Blue, Violet	DSC75-(color)-(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 featuring 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 #
<b>75 Ω Low Jitter Word Clock Coax: Standard Size</b>				
<i>Precision 20 AWG High Definition 3GHz Coax</i>				
VPM2000	Kings 3GHz True 75Ω 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)
<b>75 Ω Low Jitter Word Clock Coax: Low-loss</b>				
<i>Precision 18 AWG High Definition 3GHz Coax</i>				
VSD2001	Kings 3GHz True 75Ω 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)
<b>75 Ω Low Jitter Word Clock Coax: Ultra Low-loss</b>				
<i>Precision 16 AWG High Definition 3GHz Coax for Extended Distance</i>				
VHD7000	Kings 3GHz True 75Ω High-def BNCs 2065-12-9 with Rubber Boots	6', 10', 15', 20', 25', 35', 50'	Black	GWC3-0-(length)

## Heavy-duty Tactical Cat5e Network Cables

### Features & Benefits

Durable TPE Outer Jacket  
 Extra-flexible  
 Unique Inner Belt Maintains Electrical Characteristics in Portable Applications  
 Meets or Exceeds TIA/EIA-568-B.2 and/or ISO/IEC 11801  
 24 Gauge Conductors  
 100MHz or 350MHz Bandwidth  
 Terminated with Neutrik EtherCon® Connectors

### Applications

Ethernet Network Patching  
 For Portable Use or Remote Environments

Heavy-duty tactical Category 5E cable for portable or remote patching of Ethernet networks or digital audio/video formats that utilize CAT5E type interconnects. The CT504HD series features a double jacket construction for exceptional durability. The inner jacket maintains the proper physical spacing between pairs to achieve the ISO/IEC or TIA Cat5E specifications, while the durable TPE outer jacket protects the cable from physical damage or abuse.

Available in two types; the original CT504HD has stranded conductors for exceptional flexibility, while the CT504HDX features solid conductors and an enhanced 350MHz bandwidth for longer distance runs. The CT504HD series can be terminated with rugged Neutrik EtherCon® connectors or standard RJ45 connectors.



### Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Cable Color	Standards	Part #
<b>Category 5e Tactical Cable</b>					
<i>Extra-flexible 100MHz Type</i>					
CT504HD	Neutrik EtherCon® (2) NE8MC-B-1 or (2) RJ45 with Rubber Boot	5', 10', 25', 35', 50', 75', 100', 150'	Black	ISO/IEC 11801 Cat 5e Patch Cable	GTN1-0-(length)-xxx
<b>Category 5E Tactical Cable</b>					
<i>Low-loss 350MHz Type</i>					
CT504HDX	Neutrik EtherCon® (2) NE8MC-B-1 or (2) RJ45 with Rubber Boot	5', 10', 25', 35', 50', 75', 100', 150', 200', 250', 300'	Black	Meets or Exceeds TIA/EIA-568-B.2 Cat 5e, ISO/IEC 11801	GTN2-0-(length)-xxx

**Part # Code**    xxx = RJB suffix designates RJ45 with Rubber Boot.  
 No suffix designates standard EtherCon® connectors.

## DMX512 Lighting Control Cable

### Features & Benefits

- True DMX512 Construction
- Two Low-capacitance Data Pairs
- Double Shield (Foil & Braid)
- 120Ω Impedance
- Durable, Flexible, All-weather Jacket
- Meets or Exceeds USITT DMX512 Standards
- All Pins Active
- Terminated with Neutrik 5-pin XLRs

### Applications

- DMX512 Lighting Control
- Remote or Permanent Installation

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



Assemblies & Specifications				
Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>DMX512 Lighting Control Cable</b>				
<i>Heavy-duty USITT Compliant</i>				
DLC224	5-pin Neutrik XLR (1) NC5MX, (1) NC5FX	5', 10', 15', 25', 35', 50', 75', 100'	Black	GDL1-0-(length)

## High Definition Coax

### Features & Benefits

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

### Applications

Uncompressed HDTV Video  
 SDI Digital Video  
 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 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 #
<b>RG6 High Definition 75 Ω Coax</b> 3GHz Bandwidth SMPTE 292M Compliant					
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
<b>RG59 High Definition 75 Ω Coax</b> 3GHz Bandwidth SMPTE 292M Compliant					
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
<b>Miniature 23 AWG High Definition 75 Ω Coax</b> 3GHz Bandwidth SMPTE 292M Compliant					
VDM230	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	GVC17-(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.

## Flexible Video Coax

### Features & Benefits

- Extra-flexible
- Precision 75Ω Impedance
- High Definition 3GHz Bandwidth (VHD2000M)
- Multiple Connector Options
- Available in Multiple Colors
- Exceptional Durability & Flex-life

### Applications

- Uncompressed HDTV Digital Video (VHD2000M)
- High Resolution Analog
- Remote or Studio Use

Extra-flexible coaxial cables for portable, remote, or studio video applications. Both cable types in this series feature stranded center conductors and double braid shields for exceptional flexibility and flex-life. The High Definition series has a gas-injected dielectric with a 3GHz bandwidth for uncompressed HD video transmission, while the high resolution analog version has a solid polyethylene dielectric for added size and durability. For the outer jacket, both types utilize Gepco's extra-flexible PVC compound that is exceptionally durable and flaccid. In addition, the HD version is available in multiple color options.

Either cable type can be terminated with a variety of options such as BNC, RCA, or F-type connectors. All connectors used by Gepco are made by proven and certified connector manufacturers such as ADC, Kings, and Canare. Additional connector types may also be available upon special request. All connectors are precisely stripped, crimped and tested to ensure broadcast and professional video quality standards.



Assemblies & Specifications					
Cable Type	Connectors	Standard Lengths	Available Cable Colors	Signal Formats	Part #
<b>Extra-flexible High Definition RG59 75 Ω Coax</b>					
<i>Gas-injected Dielectric, Dual Shield, 20 AWG Conductor - 3GHz Bandwidth</i>					
VHD2000M	Varies, See Connector Options Below (All Come Standard with Rubber Boot)	10', 25', 50', 75', 100', or Custom	Black, Red, Orange, Yellow, Green, Blue, or Violet	HD Digital, SDI Digital, or High Resolution Analog	GVC34-(color)-(length)-xx
<b>Flexible Heavy-duty 75 Ω Coax</b>					
<i>Solid Dielectric, Double Braid Shield, Stranded 22 AWG Conductor - 1GHz Bandwidth</i>					
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.

## HDTV Video Patchcords: Standard WECO

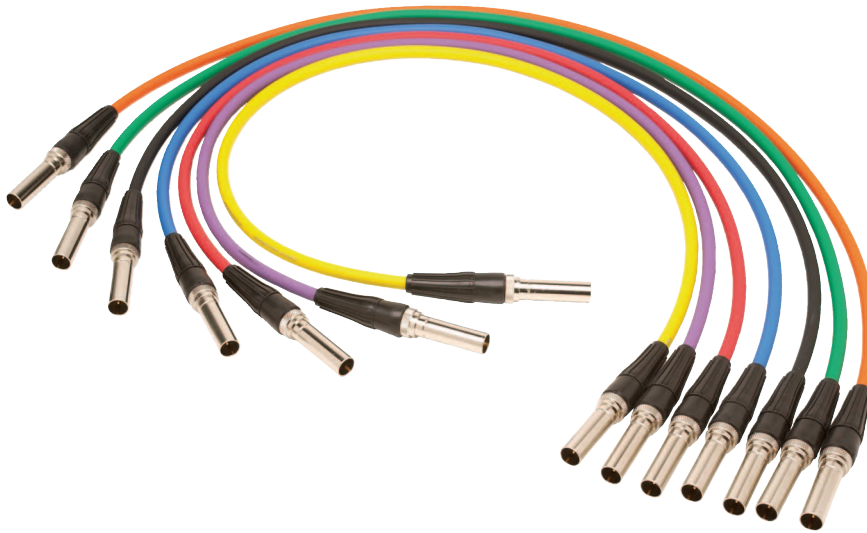
### Features & Benefits

3GHz HDTV VHD2000M Video Coax  
 WECO Type HDTV Video Patch Plugs  
 Extra-flexible  
 Double Braid Shield & Stranded Center Conductor  
 Flexible Rubber Boot  
 SMPTE 292M Compliant

### Applications

Uncompressed HDTV or SDI Digital Video  
 High Resolution Analog Video  
 Video Patching

Extra-flexible High Definition digital video patch cable terminated with standard-sized WECO type HDTV video patch plugs. Patchcords are constructed from Gepco VHD2000M coax which features a 3GHZ bandwidth and precision 75Ω impedance in an extra-flexible construction. For exceptional flexibility and flex-life, VHD2000M utilizes a double-braid broadband shield and a precision stranded center conductor. These materials not only provide the necessary flexibility and flex-life required for repeated and long-term use, but they also have the precision tolerances required to achieve SMPTE 292M compliance for uncompressed HD video. The High Definition patch cord series is available in multiple color and length options.



### Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Signal Formats	Part #
<b>High Definition Video Patchcord</b> 3GHz Bandwidth RG59 Type for Uncompressed HDTV					
VHD2000M	Canare VWP High Definition Video Patch Plug WECO Type	1', 2', 3', 4', or 6'	Black, Red, Orange, Yellow, Green, Blue, or Violet	HD Digital, SDI Digital, or High Resolution Analog	GVPC-(color)-(length)

## HDTV Video Patchcords: Midsize

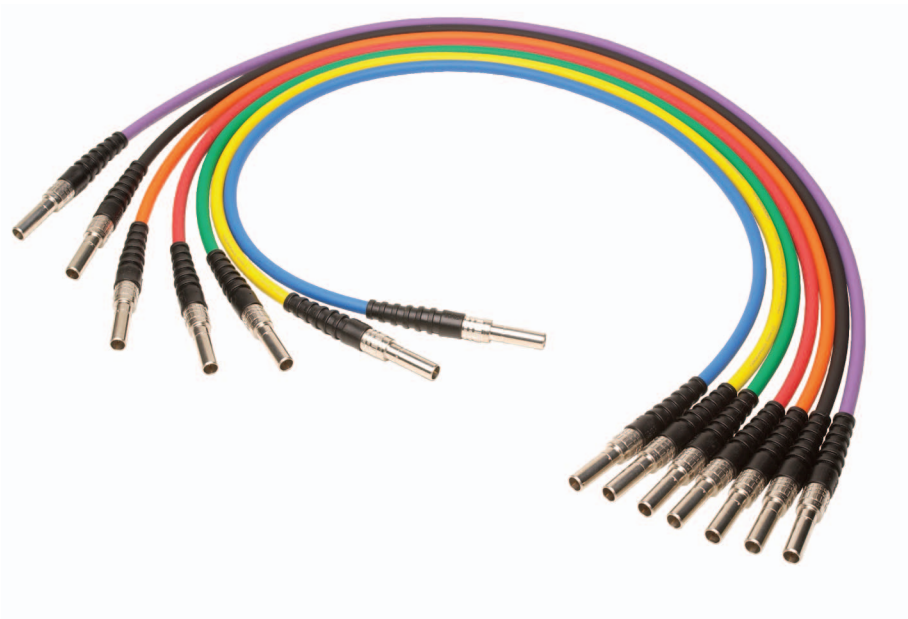
### Features & Benefits

- 3GHz HDTV VHD2000M Video Coax
- Midsize Type HDTV Video Patch Plugs
- Extra-flexible
- Double Braid Shield & Stranded Center Conductor
- Flexible Rubber Boot
- SMPTE 292M Compliant

### Applications

- Uncompressed HDTV or SDI Digital Video
- High Resolution Analog Video
- Video Patching

Extra-flexible High Definition digital video patch cable terminated with midsize type HDTV video patch plugs. Patchcords are constructed from Gepco VHD2000M coax which features a 3GHZ bandwidth and precision 75Ω impedance in an extra-flexible construction. For exceptional flexibility and flex-life, VHD2000M utilizes a double-braid broadband shield and a precision stranded center conductor. These materials not only provide the necessary flexibility and flex-life required for repeated and long-term use, but they also have the precision tolerances required to achieve SMPTE 292M compliance for uncompressed HD video. The High Definition patch cord series is available in multiple color and length options.



### Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Signal Formats	Part #
<b>High Definition Video Patchcord</b>					
<i>3GHz Bandwidth RG59 Type for Uncompressed HDTV</i>					
VHD2000M	Canare MVP High Definition Video Patch Plug Midsize Type	1', 2', 3', 4', or 6'	Black, Red, Orange, Yellow, Green, Blue, or Violet	HD Digital, SDI Digital, or High Resolution Analog	GMVPC-(color)-(length)

## 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 & 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 #
<b>High Resolution SVHS Cable</b>					
<i>Flexible 25 AWG 1GHz Dual Coax with Metal 4 Pin Mini-DINs</i>					
2	VDM250D	Gold-plated 4 Pin Mini-DINs with Metal Shells	3', 6', 10', 25', 50'	Black	SVHS1-(length)
<b>High Resolution SVHS to BNC Breakout Cable</b>					
<i>Flexible 25 AWG 1GHz Dual Coax with Metal 4 Pin Mini-DIN &amp; BNCs</i>					
2	VDM250D	Gold-plated 4 Pin Mini-DIN with Metal Shell to (2) Kings 2065-11-9 True 75Ω 3GHz BNCs	3', 6', 10', 25', 50'	Black	SVHS2-(length)



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

## HDMI & DVI

### Features & Benefits

Ultra-low Loss Design  
Flexible Jacket  
All-metal Connector Shells with Strain Relief  
Certified for Extended Distances

### Applications

HDMI Digital Video  
DVI-D Digital Video  
1080i Uncompressed HDTV

Gepco's new ultra-low loss HDMI and DVI cables deliver superior performance in solution based designs for professional digital video applications. The HDMI and DVI formats allow for an all-digital signal path between the equipment and displays, thus eliminating the loss and distortion caused from excessive analog conversion.

Through use of larger gage conductors and precision tolerances, Gepco's HDX digital video cables can achieve greater transmission distances than conventional types, allowing installers more options in the placement of equipment from the display devices.

All Gepco DVI and HDMI cables come in pre-terminated lengths with all-metal shells and integrated strain reliefs for maximum durability and RF rejection. Available with HDMI, DVI, or hybrid connector configurations, Gepco's HDX cable series allows for easy interfacing within the two formats. Additionally, connector adapters are also available for cable extension and gender conversion.



### Specifications

Part #	Description	Length	Cable (Type, Diameter)	Primary Gage	Max. Distance	UL Type
<b>HDX/HDMI- (length in feet)</b>	HDMI Male Connector (Both Ends)	8'(2.5m), 15'(5m), 25'(7.5m), 33'(10m), 48'(15m)	HDX24, .390"	24 AWG	HDMI certified for 1080i up to 15m	VW-1
<i>Extended Distance HDMI Digital Video Cable</i>						
<b>HDX/DVI- (length in feet)</b>	DVI-D Single Link Male Connector (Both Ends)	8'(2.5m), 15'(5m), 25'(7.5m), 33'(10m), 48'(15m)	HDX24, .390"	24 AWG	Up to 15 Meters at 1920x1080 (interleaved 60Hz)	VW-1
<i>Extended Distance DVI-D Digital Video Cable</i>						
<b>HDX/ADAP- (length in feet)</b>	DVI-D Single Link Male to HDMI Male	8'(2.5m), 15'(5m), 25'(7.5m), 33'(10m), 48'(15m)	HDX24, .390"	24 AWG	Up to 15 Meters at 1920x1080 (Interleaved 60Hz)	VW-1
<i>Extended Distance HDMI to DVI-D Adapter Cable</i>						

**Note:** Actual measured length is in meters. Length listed in feet is for reference only.

**Note:** Two cables cannot be combined to achieve a distance greater than the maximum certified length.

### Connector Adapters

Part #	Part #
<b>HDA-HF-DM</b>	HDMI Female to DVI Male Adapter
<b>HDA-HF-HF</b>	HDMI Female to HDMI Female Adapter
<b>HDA-DF-DF</b>	DVI Female to DVI Female Adapter

#### DVI-D Connector Type



#### HDMI Connector Type



## Component RGB Video Snakes

### Features & Benefits

- Flexible, Riser or Plenum Jacket
- RG6 or Miniature 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 and miniature 23 gage coax types utilize Gepco's proprietary, gas-injected, foam polyethylene dielectric and a precision-drawn, solid copper conductor, while the miniature 25 gage 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, and certified bandwidths. As a result, picture quality is enhanced, 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 #
<b>Miniature RGB Snake: Stranded</b> BNC to BNC with 25 AWG Low-loss Coax					
3	RGB250	Kings 3GHz True 75Ω High-Def BNCs 2065-11-9 with Rubber Boot	6', 10', 25', 50', 75', 100'	Black Jacket (Individual Coaxes Are Color Coded)	RGB1-(length)
4	RGBS250	Kings 3GHz True 75Ω High-Def BNCs 2065-11-9 with Rubber Boot	6', 10', 25', 50', 75', 100'	Black Jacket (Individual Coaxes Are Color Coded)	RGBS1-(length)
5	RGBSC250	Kings 3GHz True 75Ω High-Def BNCs 2065-11-9 with Rubber Boot	6', 10', 25', 50', 75', 100'	Black Jacket (Individual Coaxes Are Color Coded)	RGBSC1-(length)
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)
<b>Miniature RGB Snake: Solid</b> BNC to BNC with 23 AWG 3GHz Coax					
5	VS5230	Kings 3GHz True 75Ω High-Def BNCs 2065-11-9 with Rubber Boot	6', 10', 25', 50', 75', 100'	Black Jacket (Individual Coaxes Are Color Coded)	VMS5-(length)
<b>Miniature RGBSC Snake: Plenum</b> BNC to BNC with 26 AWG Low-loss Coax					
5	RGBSC260TS	ADC True 75Ω 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)
<b>High Definition RGB Snake</b> BNC to BNC with 18 AWG RG6 3GHz Gas-injected HD Coax					
3	VS32001	Kings 3GHz True 75Ω High-Def BNCs 2065-10-9 with Rubber Boot	25', 50', 75', 100', 150', 200'	Black Jacket (Individual Coaxes Are Color Coded)	DVS3-(length)
4	VS42001	Kings 3GHz True 75Ω High-Def BNCs 2065-10-9 with Rubber Boot	25', 50', 75', 100', 150', 200'	Black Jacket (Individual Coaxes Are Color Coded)	DVS4-(length)
5	VS52001	Kings 3GHz True 75Ω High-Def BNCs 2065-10-9 with Rubber Boot	25', 50', 75', 100', 150', 200'	Black Jacket (Individual Coaxes Are Color Coded)	DVS5-(length)

## HDTV Video Snakes

### Features & Benefits

Flexible, All-weather Jacket  
 RG6, RG59, or Miniature Versions  
 Low Attenuation & Return Loss  
 Precision 75Ω Impedance  
 3GHz Cable Bandwidth  
 High Bandwidth BNC Connectors  
 Rubber Flex-relief Boots  
 Gold-plated Pins

### Applications

Uncompressed HDTV Digital Video  
 High Resolution Analog 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 sizes 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 feature precision electrical specifications and tolerances.

In addition to the individual coax jackets, a flexible, low-brittle-temperature, abrasion-resistant master jacket is used enabling use in remote, hostile, and cold weather environments.



### Assemblies & Specifications

# of Channels	Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>Miniature High Definition 10-channel Snake</b>					
<i>BNC to BNC with 23 AWG 3GHz HD Coax</i>					
10	VS10230	Kings 3GHz True 75Ω High-def BNCs 2065-11-9 with Rubber Boot	50', 100', 150'	Black Jacket (Individual Coaxes Are Color Coded)	VMS10-(length)
<b>High Definition 10-channel Snake</b>					
<i>BNC to BNC with 20 AWG RG59 3GHz HD Coax</i>					
10	VS102000	Kings 3GHz True 75Ω High-def BNCs 2065-2-9 with Rubber Boot	50', 100', 150'	Black Jacket (Individual Coaxes Are Color Coded)	VSC10-(length)
<b>High Definition 10-channel Snake</b>					
<i>BNC to BNC with 18 AWG RG6 3GHz HD Coax</i>					
10	VS102001	Kings 3GHz True 75Ω High-def BNCs 2065-10-9	50', 100', 150'	Black Jacket (Individual Coaxes Are Color Coded)	VSL10-(length)

## 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 #	
<b>Low-loss Composite A/V Snake</b>						
20 AWG RG59 Coax with 22 AWG Balanced Audio Pairs						
VA2/_ Series	Varies, See Connector Options Below	10', 15', 25', 35', 50', 75', 100', 150', or Custom	2 Video 75Ω 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	
<b>Thin Profile Composite A/V Snake</b>						
25 AWG Miniature Coax with 22 AWG Balanced Audio Pairs						
VA2/_TP Series	Varies, See Connector Options Below	10', 15', 25', 35', 50', 75', 100', 150', or Custom	2 Video 75Ω 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 75Ω 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.

## Triax

### 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 through 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 #
<b>Flexible RG59 Triax Camera Cable</b>				
<i>All-weather Construction, 20 AWG Solid Conductor</i>				
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
<b>Flexible RG59 Triax Camera Cable: Stranded</b>				
<i>All-weather Construction, 22 AWG Stranded Conductor</i>				
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
<b>Low-loss Flexible RG11 Triax Camera Cable</b>				
<i>All-weather Construction, 14 AWG Stranded Conductor</i>				
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
- SMPTE 311M & 304M Compliant

### Applications

High Definition Camera to CCU Interconnect

SMPTE 311M, single-mode fiber optic and copper hybrid camera cable terminated with SMPTE 304M connectors 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 version). 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 that achieves excellent optical clarity and alignment.

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.



### Assemblies & Specifications

Cable Type	Connectors	Standard Lengths	Available Cable Colors	Part #
<b>9.2mm Hybrid Fiber Camera Cable</b>				
<i>Extra-flexible PVC Jacket</i>				
HDC920	Lemo or Canare SMPTE 304M Hybrid Connectors with Metal Dust Caps	50', 100', 164', 250', 328', 500', 656'	Black	GHF92A-0-(length)-x-yy
<b>9.2mm Hybrid Fiber Camera Cable</b>				
<i>Permanent Installation, Riser Rated Jacket</i>				
HDC920R	Lemo or Canare SMPTE 304M Hybrid Connectors with Metal Dust Caps	50', 100', 164', 250', 328', 500', 656'	Black	GHF92B-0-(length)-x-yy
<b>12mm Hybrid Fiber Camera Cable</b>				
<i>Durable Polyurethane Jacket</i>				
HDC120P	Lemo 3K Series SMPTE 304M Hybrid Connectors with Custom Gepco Kellem Strain Reliefs & Metal Dust Caps	50', 100', 164', 250', 328', 500', 656'	Black	GHF12B-0-(length)

**Part # Code**  
 x = Connector Brand (Blank = Lemo, C = Canare)  
 yy = Bulkhead Gender (PB = Plug Bulkhead, SB = Socket and Plug Bulkhead)

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

## 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 or 5-pin AMP Connectors  
Includes Metal Dust Caps

### Applications

Breakout of Lemo Terminated Hybrid Fiber Cables to Standard ST Fiber Connectors  
Distribution of HD Cameras Over Existing Tie-lines

Portable, SMPTE 304M hybrid fiber to ST breakout box in a three channel configuration. Each hybrid connector breaks out to two ST female connectors on a recessed, protective metal top plate with optional electrical connectors. The breakout of the hybrid connector to discrete, industry-standard optical and electrical components allow for an HD camera to CCU interconnection over existing fiber tie-lines in facilities where hybrid fiber interconnects may not be present.

All optical components feature machine-polished ceramic ferules and ceramic sleeves for superior optical alignment and low loss. The chassis is constructed from heavy gage anodized aluminum for use in remote production environments. In addition to the standard configuration, the HBB breakout box is also available with XLR or 5-pin AMP connectors that are hard wired to the power and/or signal components of the SMPTE hybrid connectors.



### Assemblies & Specifications

Part #	# of Channels	Connectors	Optional Electrical Connector	Chassis Dimensions	Chassis Material	Optical Specifications
<b>Hybrid Fiber to ST Breakout Box</b>						
<i>Three Channel - 9" Long Chassis</i>						
HBB903xy	3	(6) Female ST Barrels with Dust Caps (Metal Housing, Ceramic Sleeve) Internally Coupled with Metal Body ST Connectors with Ceramic Ferules  (3) Hybrid Fiber SMPTE 304M Connector (Plug or Socket) with Metal Dust Caps	(3) 5-pin Amp CPC Connector  -or-  (3) Male or Female XLR (Power elements from fiber are not terminated.)  Also available without electrical connectors.	4.5" High x 5.25" Wide x 9" Long	1/8" Extruded Aluminum (Black Anodized)	Single-mode Optical Fiber, 8.3 $\mu$ Mode Field, 125 $\mu$ 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  SMPTE 304M Compliant

#### Part # Code

x = Gender of Lemo Connectors (P = Plug, S = Socket)  
y = Gender of Electrical Connectors (XF = Female XLRs, XM = Male XLRs, A = Amp 5-pin CPC)

#### SIDE PANEL ELECTRICAL CONNECTOR OPTIONS



AMP 5-Pin



XLR Male



XLR Female

#### ST Fiber Code

Fiber A = Top blue fiber in hybrid connector  
Fiber B = Lower yellow fiber in hybrid connector

#### AMP 5-pin Electrical Pinout (Optional)

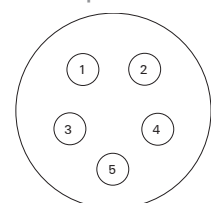
Pin 1 = Gray signal conductor (low voltage)  
Pin 2 = Red signal conductor (low voltage)  
Pin 3 = White auxiliary conductor (high voltage)  
Pin 4 = Black auxiliary conductor (high voltage)  
Pin 5 = Ground

#### XLR Pinout (Optional)

Pin 1 = Ground  
Pin 2 = Red signal conductor (low voltage)  
Pin 3 = Gray signal conductor (low voltage)

Black & white power elements in hybrid fiber connector are floated (i.e., no connection in XLR versions).

#### AMP 5-pin Front View





# Hybrid Fiber Breakout Box: 4.5" Single-channel

## 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 or 5-pin AMP Connectors
- Includes Metal Dust Caps

## Applications

- Breakout of Lemo Terminated Hybrid Fiber Cables to Standard ST Fiber Connectors
- Distribution of HD Cameras Over Existing Tie-lines

Portable, SMPTE 304M hybrid fiber to ST breakout box in a reduced 4.5" footprint. Each hybrid connector breaks out to two ST female connectors on a recessed, protective metal top plate with optional electrical connectors. The breakout of the hybrid connector to discrete, industry-standard optical and electrical components allow for an HD camera to CCU interconnection over existing fiber tie-lines in facilities where hybrid fiber interconnects may not be present.

All optical components feature machine-polished ceramic ferules and ceramic sleeves for superior optical alignment and low loss. The chassis is constructed from heavy gage anodized aluminum for use in remote production environments. In addition to the standard configuration, the 4.5" HBB breakout box is also available with XLR or 5-pin AMP connectors that are hard wired to the power and/or signal components of the SMPTE hybrid connectors.

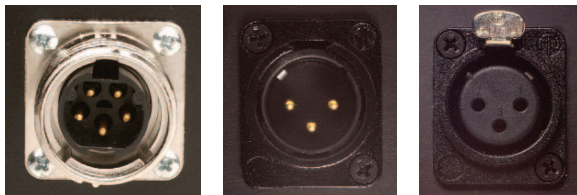


## Assemblies & Specifications

Part #	# of Channels	Connectors	Optional Electrical Connector	Chassis Dimensions	Chassis Material	Optical Specifications
<b>Hybrid Fiber to ST Breakout Box</b> Single Channel, Small Footprint Type						
HBB901xy/4.5	1	(2) Female ST Barrels with Dust Caps (Metal Housing, Ceramic Sleeve) Internally Coupled with Metal Body ST Connectors with Ceramic Ferules  (1) Hybrid Fiber SMPTE 304M Connector (Plug or Socket) with Metal Dust Caps	(1) 5-pin Amp CPC Connector  -or-  (1) Male or Female XLR (Power elements from fiber are not terminated.)  Also available without electrical connectors.	4.5" High x 5.25" Wide x 4.5" Long	1/8" Extruded Aluminum (Black Anodized)	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  SMPTE 304M Compliant

**Part # Code** x = Gender of Lemo Connectors (P = Plug, S = Socket)  
y = Gender of Electrical Connectors (XF = Female XLRs, XM = Male XLRs, A = Amp 5-pin CPC)

### SIDE PANEL ELECTRICAL CONNECTOR OPTIONS



AMP 5-Pin

XLR Male

XLR Female

### ST Fiber Code

Fiber A = Top blue fiber in hybrid connector  
Fiber B = Lower yellow fiber in hybrid connector

### AMP 5-pin Electrical Pinout (Optional)

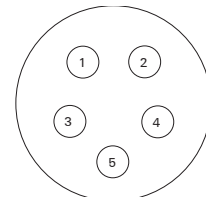
- Pin 1 = Gray signal conductor (low voltage)
- Pin 2 = Red signal conductor (low voltage)
- Pin 3 = White auxiliary conductor (high voltage)
- Pin 4 = Black auxiliary conductor (high voltage)
- Pin 5 = Ground

### XLR Pinout (Optional)

- Pin 1 = Ground
- Pin 2 = Red signal conductor (low voltage)
- Pin 3 = Gray signal conductor (low voltage)

Black & white power elements in hybrid fiber connector are floated (i.e., no connection in XLR versions).

### AMP 5-pin Front View



## Hybrid Electrical & Fiber Component Distribution Rack

### Features & Benefits

Breaks Out Hybrid SMPTE 304M 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 Interconnects Over Separate Electrical & Single-mode Fiber Optic Cables

Permanent Installation

Single-rack space, straight panel SMPTE 304M hybrid fiber distribution rack. With the HDR system, the electrical and fiber components of the SMPTE hybrid connectors are distributed to separate optical and electrical components allowing for simplified in-wall installation. The discrete optical and electrical elements between boxes can now be interconnected with conventional distribution-type fiber and Gepco's HDP electrical cable, thereby eliminating the need for specialized on-site hybrid fiber termination.

In addition, the HDR system offers improved field serviceability. The internal fiber jumpers can be easily replaced when damaged or worn, eliminating the costly need to completely replace the SMPTE hybrid connectors. The HDR chassis is constructed from rugged, powder-coated steel, all optical components feature machine-polished ceramic ferules with ceramic sleeves; and the electrical connectors are rugged, metal-shell CPC types.



### Assemblies & Specifications

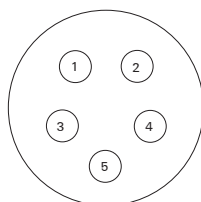
Part #	# of Channels	Connectors	Dimensions	Chassis Material/Color	Optical Specifications	Comments
<b>Hybrid Fiber Distribution Rack</b>						
<i>SMPTE 304M Connector to ST and Electrical Breakout</i>						
HDR-#x	1, 2, 3 or 4  (5 & 6 Channel Versions Available as Custom Order)	Front: SMPTE 304M Hybrid Fiber Connectors with Metal Dust Caps (1 per Channel)  Rear: ST Female Metal Barrels (Ceramic Sleeve) Internally Coupled to Metal Body ST Connectors (2 per Channel)  AMP Metal-shell 5-pin CPC Receptacle (1 per Channel)	1.75" High (1 RU) x 19" Wide x 3" Deep	Steel/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 Hybrid Contacts (Machine-polished)  <0.50 dB @ 1310nm Total Insertion Loss per Fiber Element  SMPTE 304M Compliant	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.  One, two and three channel versions can be expanded to four.

**Part # Code**      x = Gender of Hybrid Fiber Connectors (P = Plug, S = Socket)  
                          # = Number of Channels

### REAR PANEL



### AMP 5-pin Front View



### AMP 5-pin Electrical Pinout

Pin 1 = Gray signal conductor (low voltage)  
Pin 2 = Red signal conductor (low voltage)  
Pin 3 = White auxiliary conductor (high voltage)  
Pin 4 = Black auxiliary conductor (high voltage)  
Pin 5 = Ground

### ST Fiber Code

Fiber A = Top blue fiber in hybrid connector  
Fiber B = Lower yellow fiber in hybrid connector

## Hybrid Electrical & Fiber Component Distribution Rack: Angled 2RU

### Features & Benefits

Breaks Out Lemo HD Camera Connectors to Discrete Electrical & Fiber Connectors

Machine-polished Optical Contacts & Ceramic Sleeves

Metal 5-pin CPC Connectors

Angled Front Panel Reduces Strain on Cable

Replaceable Fiber Jumpers

Designation Strip

Expandable up to Four Channels

### Applications

Distribution of Hybrid Fiber Camera Interconnects Over Separate Electrical & Single-mode Fiber Optic Cables

Permanent Installation

Two-rack space, angled SMPTE 304M hybrid fiber distribution rack. With the HDR system, the electrical and fiber components of the SMPTE hybrid connectors are distributed to separate optical and electrical components allowing for simplified in-wall installation. The discrete optical and electrical elements between boxes can now be interconnected with conventional distribution-type fiber and Gepco's HDP electrical cable, thereby eliminating the need for specialized on-site hybrid fiber termination.

In addition, the HDR system offers improved field serviceability. The internal fiber jumpers can be easily replaced when damaged or worn, eliminating the costly need to completely replace the SMPTE hybrid connectors. The HDR chassis is constructed from rugged, powder-coated steel; all optical components feature machine-polished ceramic ferules with ceramic sleeves; and the electrical connectors are rugged, metal-shell CPC types.



### Assemblies & Specifications

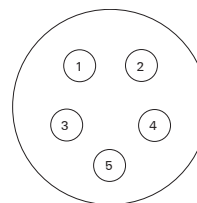
Part #	# of Channels	Connectors	Dimensions	Chassis Material/Color	Optical Specifications	Comments
<b>Hybrid Fiber Distribution Rack</b>						
<i>SMPTE 304M Connector to ST and Electrical Breakout</i>						
HDRA-#x	1, 2, 3 or 4  (5 & 6 Channel Versions Available as Custom Order)	Front: SMPTE 304M Hybrid Fiber Connectors with Metal Dust Caps (1 per Channel)  Rear: ST Female Metal Barrels (Ceramic Sleeve) Internally Coupled to Metal Body ST Connectors (2 per Channel)  AMP Metal-shell 5-pin CPC Receptacle (1 per Channel)	3.5" High (1 RU) x 19" Wide x 3 3/4" Deep  Angled Front Panel	Steel/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 Hybrid Contacts (Machine-polished)  <0.50 dB @ 1310nm Total Insertion Loss per Fiber Element  SMPTE 304M Compliant	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.  One, two and three channel versions can be expanded to four.

**Part # Code** x = Gender of Hybrid Fiber Connectors (P = Plug, S = Socket)  
# = Number of Channels

### REAR PANEL



### AMP 5-pin Front View



### AMP 5-pin Electrical Pinout

- Pin 1 = Gray signal conductor (low voltage)
- Pin 2 = Red signal conductor (low voltage)
- Pin 3 = White auxiliary conductor (high voltage)
- Pin 4 = Black auxiliary conductor (high voltage)
- Pin 5 = Ground

### ST Fiber Code

- Fiber A = Top blue fiber in hybrid connector
- Fiber B = Lower yellow fiber in hybrid connector

## Angled Triax Panel

### Features & Benefits

45 Degree Angled Front Panel  
Relieves Cable Strain  
Electrically Isolated Connector  
Mounting Holes  
Seven Positions  
Protruding & Recessed Versions  
Two Rack Space  
Designation Strip for Labeling

### Applications

Camera to CCU Interconnects  
Junction Boxes  
Mobile Truck I/O

Angled two-rack-space panel with electrically isolated Tri-Loc® connector mounting holes. The front panel is angled at 45 degrees to reduce cable stress and is available in both recessed and protruding types. The connector mounting plate is made from a nonconductive bakelite phenolic for electrical isolation. For customizable channel identification, the front panel also features an oversized designation strip. The RP panel series can be loaded with a variety of King's Tri-Loc® connector types.



### Assemblies & Specifications

Part #	# of Channels	Connector Punch Type	Front Panel Type	Panel Dimensions	Panel Materials	Isolation
<b>Angled Triax Panel</b>						
<i>Protruding 45 Degree Angled Tri-Loc® Panel</i>						
RP3.5/7-O	7	King's Tri-Loc® Mounting Holes	45° Angled Protruding Front	3.5" High (2 RU) x 19" Wide	Powder Coated Steel with Phenolic Insert	Each Connector Mounting Hole is Electrically Isolated
<b>Angled Triax Panel</b>						
<i>Recessed 45 Degree Angled Tri-Loc® Panel</i>						
RP3.5/7-I	7	King's Tri-Loc® Mounting Holes	45° Angled Recessed Front	3.5" High (2 RU) x 19" Wide	Powder Coated Steel with Phenolic Insert	Each Connector Mounting Hole is Electrically Isolated

**Note:** Does not include connectors. Connectors can be ordered separately.

## Angled Triax & Hybrid Fiber Panel

### Features & Benefits

- 45 Degree Angled Front Panel
- Relieves Cable Strain
- Electrically Isolated Tri-Loc® Mounting Holes
- Four Tri-Loc® & Three Hybrid Fiber Positions
- Protruding and Recessed Versions
- Two-rack Space
- Designation Strip for Labeling

### Applications

- Camera to CCU Interconnects
- Junction Boxes
- Mobile Truck I/O

Angled two-rack-space panel with Tri-Loc® and hybrid fiber connector mounting holes. The front panel is angled at 45 degrees to reduce cable stress and is available in both recessed and protruding types. Each Tri-Loc® connector mounting plate is made from a non-conductive bakelite phenolic plate for electrical isolation. For customizable channel identification, the front panel also features an oversized designation strip. The RP panel series can be loaded with a variety of connector types, depending upon cable type.



### Assemblies & Specifications

Part #	# of Channels	Triax Connector Punch Type	Hybrid Fiber Connector Punch Type	Front Panel Type	Panel Dimensions	Panel Materials	Isolation
<b>Angled Triax &amp; Hybrid Fiber Panel</b>							
<i>Protruding 45 Degree Angled Panel: 4 Tri-Loc® &amp; 3 Hybrid Sockets</i>							
RP3.5/4T/3LS-O	4 Triax/ 3 Hybrid Fiber	(4) King's Tri-Loc® Mounting Holes	(3) SMPTE 304M Hybrid Fiber 9.2mm Socket Mounting Holes	45° Angled Protruding Front	3.5" High (2 RU) x 19" Wide	Powder Coated Steel with Phenolic Insert	Each Tri-Loc® Connector Mounting Hole is Electrically Isolated
<b>Angled Triax &amp; Hybrid Fiber Panel</b>							
<i>Protruding 45 Degree Angled Panel: 4 Tri-Loc® &amp; 3 Hybrid Plugs</i>							
RP3.5/4T/3LP-O	4 Triax/ 3 Hybrid Fiber	(4) King's Tri-Loc® Mounting Holes	(3) SMPTE 304M Hybrid Fiber 9.2mm Plug Mounting Holes	45° Angled Protruding Front	3.5" High (2 RU) x 19" Wide	Powder Coated Steel with Phenolic Insert	Each Tri-Loc® Connector Mounting Hole is Electrically Isolated
<b>Angled Triax &amp; Hybrid Fiber Panel</b>							
<i>Recessed 45 Degree Angled Panel: 4 Tri-Loc® &amp; 3 Hybrid Sockets</i>							
RP3.5/4T/3LS-I	4 Triax/ 3 Hybrid Fiber	(4) King's Tri-Loc® Mounting Holes	(3) SMPTE 304M Hybrid Fiber 9.2mm Socket Mounting Holes	45° Angled Recessed Front	3.5" High (2 RU) x 19" Wide	Powder Coated Steel with Phenolic Insert	Each Tri-Loc® Connector Mounting Hole is Electrically Isolated
<b>Angled Triax &amp; Hybrid Fiber Panel</b>							
<i>Recessed 45 Degree Angled Panel: 4 Tri-Loc® &amp; 3 Hybrid Plugs</i>							
RP3.5/4T/3LP-I	4 Triax/ 3 Hybrid Fiber	(4) King's Tri-Loc® Mounting Holes	(3) SMPTE 304M Hybrid Fiber 9.2mm Plug Mounting Holes	45° Angled Recessed Front	3.5" High (2 RU) x 19" Wide	Powder Coated Steel with Phenolic Insert	Each Tri-Loc® Connector Mounting Hole is Electrically Isolated

**Note:** Does not include connectors.

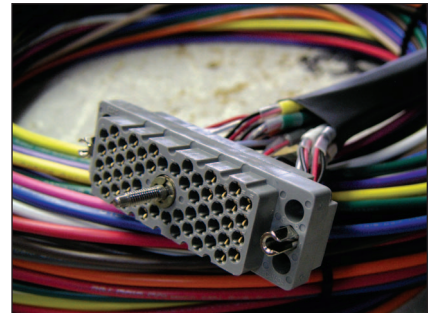
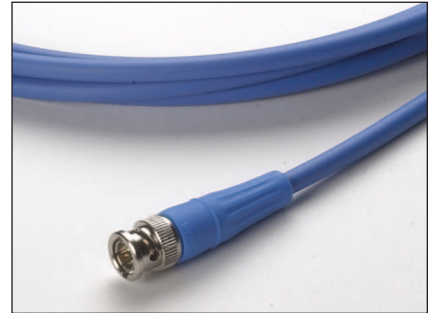
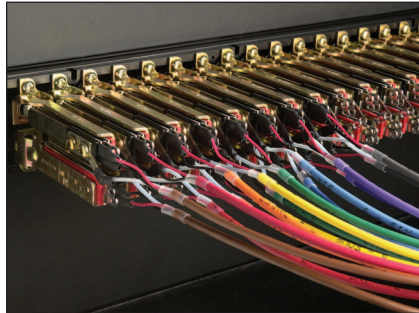


## Custom Assemblies, Panels & Harnessing

In addition to standard cable assemblies, Gepco offers full-service custom assembly fabrication and prewiring. Custom assemblies can be produced from almost any type of Gepco cable and terminated with stocked or special order audio, video, or data connectors.

All connectors are terminated using industry-proven, professional-grade methods. Connectors are either hand soldered or machine crimped to ensure consistent electrical performance and mechanical integrity. To provide additional strain relief and durability, most cables are also fitted with heat shrink and/or protective sleeving.

All custom assemblies can be produced to user-specified types, pin-outs, lengths, colors, and labeling to deliver a completely customized interconnect solution for almost any type of professional audio or video system.



### Capabilities

Audio, Video, or Data

Patchbay Harnessing

Multi-pin Assemblies

Blunt at One End

Snakes or Single Channel

Breakout Boxes

Custom Panels - Blank, Populated or Prewired

Single Unit or High Volume OEM Production

Multiple Cable Types with Expandable Sleeving

Cable Repairs

## Custom Assemblies, Panels & Harnessing

### Extensive Range of Cable Types

Produced from almost any of Gepco's diverse line of cable products, custom assemblies can provide solutions for virtually any professional interconnect application.

### Hand Soldered or Crimped Contacts

Most Gepco custom assemblies utilize connectors that contain hand-soldered or crimped contacts. Solder and crimp contacts provide a more robust connection than over-molded, insulation-displacement contacts. Most contact types are also available in gold-plated versions to provide superior conductivity and tarnish resistance.

### Industry Proven Methods

Gepco custom cable assemblies are built with durable and industry-proven termination methods. Most connectors are terminated by hand with heat shrink, sleeving, and rugged strain-relief systems. These methods and materials significantly increase the operating life of the cable and allow for field reparability or modification.

### Custom Pinouts and Lengths

Custom assemblies can be wired to industry-standard or user-specified lengths and pinout configurations. This allows for proper signal interfacing and provides a clean installation devoid of excess cable.

### Specialty Components

In addition to industry standard connector formats, Gepco also stocks or can special order many unique connector types to offer complete interconnect solutions for almost any interconnect format.

### Premium Connectors

Gepco utilizes only professional quality connectors from a range of industry-proven connector manufacturers. Neutrik, Switchcraft, Kings, ADC, and EDAC are just a few of the many connector brands that are stocked and can be readily terminated to almost any cable type.



AMP Amphenol®



Hellermann Tyton



NEUTRIK



LEMO®

Switchcraft®





## G37 Twelve-channel DT12 Connectors

### Features & Benefits

- Hard Anodized Aluminum Backshell
- Stainless Steel Housing Shell (Male)
- Scalloped Neoprene Insulator is Crack-proof and Prevents Rotation
- Set-screws & Castellations Eliminate Accidental Backshell Loosening
- 3 Micron Mil-spec Gold Plating on Contacts
- Optional Kellem Strain Relief with Over-body Heat Shrink
- Completely Weather Tight

### Applications

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

Gepeco's new fourth generation G37 series connectors bring a new level of performance and reliability to the industry standard, twelve-channel DT12 format. The new all-metal backshell, constructed from hard anodized aluminum with reverse threads and an o-ring seal, locks in place with two set-screws into a series of castellations. The front connector shell is now constructed from stainless steel (male end) to prevent connector damage and keyway wear. Gepeco's crack-proof neoprene insulator now has a bonded and scalloped design that prevents rotation. The critical part of the audio path, the electrical contacts have also been improved. Both the pins and sockets now feature a new 3 micron, mil-spec, gold plating for improved soldering and tarnish resistance. For the strain relief, the G37 features an oversized nut and rubber gland seal with an optional Kellem cord grip and heat shrink.



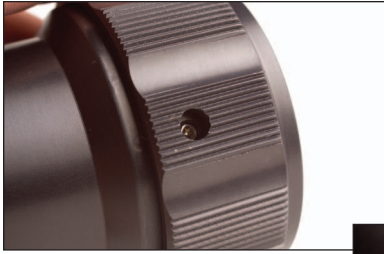
### DT12 Connectors

Part #	Gender	Description	Cable Diameter Range	Additional Cord Grip
G37MS	Male	Cable Mount - Small Cable ID	.500" - .620"	—
G37MSK	Male	Cable Mount - Small Cable ID with Kellem	.500" - .620"	Kellem Included (Small)
G37MM	Male	Cable Mount - Medium Cable ID	.620" - .750"	—
G37MMK	Male	Cable Mount - Medium Cable ID with Kellem	.620" - .750"	Kellem Included (Medium)
G37ML	Male	Cable Mount - Large Cable ID	.750" - .870"	—
G37MLK	Male	Cable Mount - Large Cable ID with Kellem	.750" - .870"	Kellem Included (Large)
G37FS	Female	Cable Mount - Small Cable ID	.500" - .620"	—
G37FSK	Female	Cable Mount - Small Cable ID with Kellem	.500" - .620"	Kellem Included (Small)
G37FM	Female	Cable Mount - Medium Cable ID	.620" - .750"	—
G37FMK	Female	Cable Mount - Medium Cable ID with Kellem	.620" - .750"	Kellem Included (Medium)
G37FL	Female	Cable Mount - Large Cable ID	.750" - .870"	—
G37FLK	Female	Cable Mount - Large Cable ID with Kellem	.750" - .870"	Kellem Included (Large)
G37BMM	Male to Male	In-line Barrel	N/A	N/A
G37BFF	Female to Female	In-line Barrel	N/A	N/A
G37MP	Male	Panel Mount	N/A	N/A
G37FP	Female	Panel Mount	N/A	N/A
VKC28TF	Male	Dust Cap for Connectors	N/A	N/A
VKC28TV	Female	Dust Cap for Connectors	N/A	N/A

### Technical Specifications

Solder Contacts	16 AWG Max Wire Size, Copper Alloy, Screw Machined, Gold-plated 3 micron mil-g 45204
Back Shell	Hard Anodized Aluminum, Black
Shell	Stainless Steel (Male), Hard Anodized (Female)
Insulator	Neoprene
Current Rating	13 Amperes Rated, 22 Amperes Max
Voltage Rating	700 volts DC, 500 volts AC
Test Voltage	2000 volts AC RMS

### G37 Product Features



**Set-screw**

In addition to the reverse thread backshell, every connector now has two set-screws, 180 degrees apart, to secure the backshell and prevent accidental loosening. Both are easily accessible and feature a standard 1/16" allen head.

**Castellations**

Male gender connectors feature multiple castellations along the edge, while the female genders have a continuous groove around the circumference. These channels allow for a positive lock with the set-screw at nearly any position, thus maintaining the integrity of the weather-tight seal.



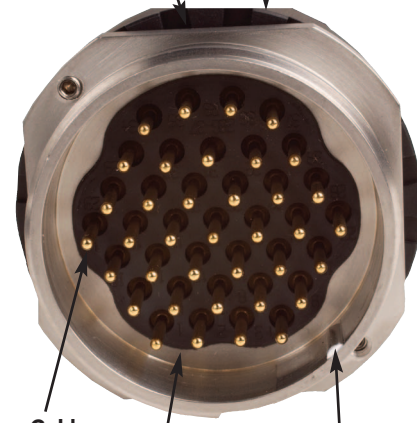
**Backnut & Kellm**

The included standard backnut features wrench flats and custom-sized gland seals that ensure a proper fit and weather resistance. In addition, the backnut can accommodate an optional Kellm cord grip for added strain relief.

**O-ring Seal**

Completely weather-tight and fully compressed even with set-screws engaged.

**Hard Anodized Backshell**  
Rugged aluminum backshell with reverse thread.



**3 Micron Gold-plated Contacts**

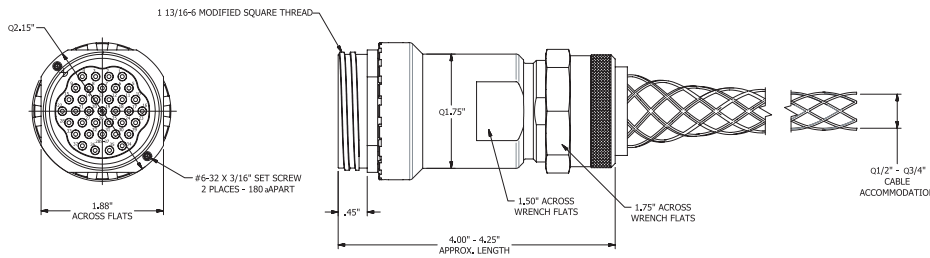
Improves soldering and tarnish resistance.

**Stainless Steel Shell**

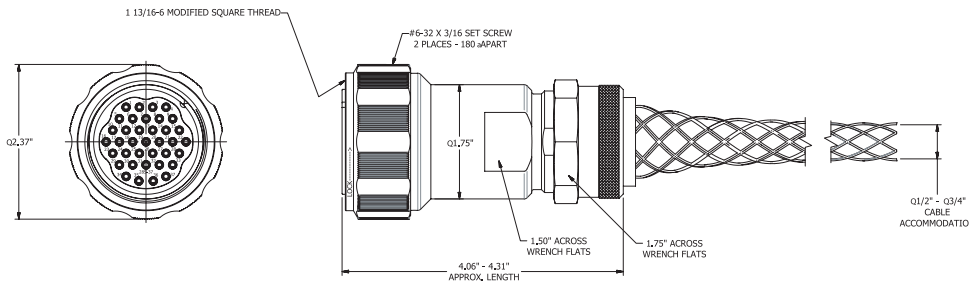
Exceptionally durable and virtually eliminates connector shell and key-way damage.

**Scalloped Insulator**  
Prevents rotation and is chip- and crack-proof.

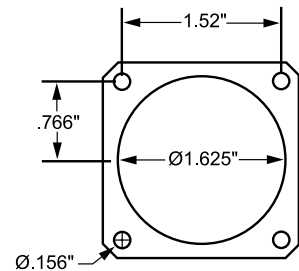
**G37M (Cable Mount Male)**



**G37F (Cable Mount Female)**



**Panel Mount Connector Mounting Hole**



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

### Applications

Tests for Multiple Combinations of Opens and/or Shorts Between Center Conductor, Inner Braid & 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 TT2B is extremely simple via a single latching push button and four, high-visibility LEDs.



Parts	
Part #	Description
TT-2B	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 37-pin DT12 Cables  
Measure for Opens & 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 multimeter, the MT37 greatly speeds DT12 cable testing by automatically measuring for opens on each conductor and all possible shorts from each conductor to all 36 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.		Circular ML Area	Weight	
		Inches	mm		Lbs/Mft	kg/km
40	Solid	.003	.08	9.61	.030	.04
39	Solid	.004	.09	12.20	.038	.06
38	Solid	.004	.10	15.72	.048	.07
37	Solid	.005	.11	19.83	.061	.09
36	Solid	.005	.13	25.00	.076	.11
36	7/44	.006	.15	28.00	.085	.12
35	Solid	.006	.14	31.52	.095	.14
34	Solid	.006	.16	39.75	.120	.18
34	7/42	.007	.19	43.75	.132	.19
33	Solid	.007	.18	50.13	.152	.23
32	Solid	.008	.20	63.21	.191	.28
32	7/40	.008	.20	67.27	.203	.30
32	19/44	.009	.22	76.00	.230	.34
31	Solid	.009	.23	79.70	.241	.36
30	Solid	.010	.25	100.50	.304	.45
30	7/38	.012	.30	112.00	.339	.50
30	19/42	.012	.30	118.75	.359	.53
29	Solid	.011	.29	126.70	.384	.57
28	Solid	.013	.32	159.80	.484	.72
28	7/36	.015	.38	141.75	.529	.78
28	19/40	.016	.40	182.59	.553	.82
27	Solid	.014	.36	201.50	.610	.91
27	7/35	.018	.45	219.52	.664	.98
26	Solid	.016	.40	253.00	.769	1.14
26	19/38	.020	.50	304.00	.920	1.36
26	7/34	.019	.48	277.83	.841	1.25
25	Solid	.018	.46	320.40	.970	1.44
25	7/33	.021	.53	343.00	1.113	1.66
24	Solid	.020	.51	404.00	1.223	1.82
24	7/32	.024	.60	448.00	1.356	2.01
24	10/34	.023	.58	396.90	1.201	1.78
24	19/36	.024	.60	475.00	1.430	2.12
24	41/40	.023	.58	384.40	1.160	1.72
23	Solid	.023	.57	511.50	1.542	2.29
22	Solid	.025	.64	640.40	1.945	2.89
22	7/30	.030	.76	700.00	2.120	3.15
22	19/34	.031	.78	754.11	2.280	3.39
22	26/36	.030	.76	650.00	1.970	2.93
21	Solid	.029	.72	812.10	2.452	3.65
20	Solid	.032	.81	1,020.0	3.092	4.60
20	7/28	.038	.96	1,111.0	3.490	5.19
20	10/30	.035	.88	1,000.0	3.025	4.50
20	19/32	.037	.93	1,216.0	3.680	5.47
20	26/34	.036	.91	1,031.9	3.120	4.64
20	41/36	.036	.91	1,025.0	3.100	4.61
19	Solid	.040	.91	1,200.0	3.899	5.80
18	Solid	.040	1.02	1,620.0	4.917	7.32
18	7/26	.048	1.21	1,759.60	5.360	7.97
18	16/30	.047	1.19	1,600.0	4.840	7.20

AWG	Strand	Approx. O.D.		Circular ML Area	Weight	
		Inches	mm		Lbs/Mft	kg/km
18	19/30	.049	1.24	1,900.0	5.750	8.55
18	41/34	.047	1.19	1,627.3	4.920	7.32
18	65/36	.047	1.19	1,625.0	4.910	7.30
17	Solid	.045	1.15	2,050.0	6.200	9.23
16	Solid	.051	1.29	2,583.0	7.818	11.63
16	7/24	.060	1.52	2,828.0	8.560	12.73
16	65/34	.059	1.49	2,579.9	7.810	11.62
16	26/30	.059	1.49	2,600.0	7.870	11.71
16	19/29	.058	1.47	2,426.3	7.350	10.93
16	105/36	.059	1.49	2,625.0	7.950	11.83
15	Solid	.057	1.45	3,260.0	9.858	14.67
14	Solid	.064	1.63	4,107.0	12.43	18.50
14	7/22	.073	1.85	4,480.0	13.56	20.17
14	19/27	.073	1.85	3,830.4	11.59	17.24
14	41/30	.073	1.85	4,100.0	12.40	18.45
14	105/34	.073	1.85	4,167.5	12.61	18.76
13	Solid	.072	1.83	5,178.0	15.68	23.33
12	Solid	.081	2.05	6,530.0	19.77	29.42
12	7/20	.096	2.43	7,168.0	21.69	32.27
12	19/25	.093	2.36	6,087.6	18.43	27.42
12	65/30	.095	2.41	6,500.0	19.66	29.25
12	165/34	.095	2.41	6,548.9	19.82	29.49
11	Solid	.091	2.30	8,234.0	24.92	37.08
10	Solid	.102	2.60	10,380.0	31.43	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

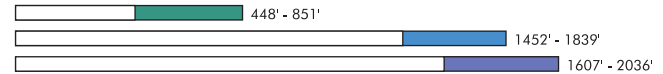


## Appendix C: Serial Digital Coax Distances

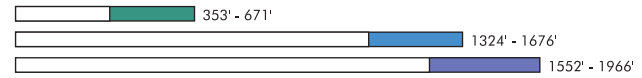
Maximum values represent the approximate range at which the bit error rate “cliff region” will occur.

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.

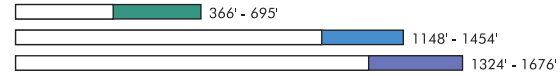
### VHD1100



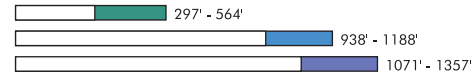
### VHD1100TK



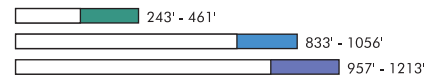
### VHD7000



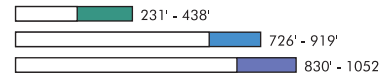
### VSD2001



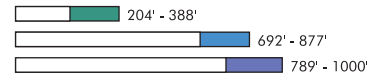
### VSD2001TS



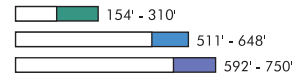
### VPM2000



### VPM2000TS



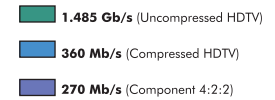
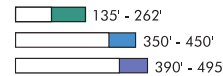
### VDM230



### VDM250



### VDM260





## Appendix D: BNC Connector Cross Reference

BNC Connector Cross Reference				
Geppo Part Number	Kings	ADC	Trompeter	Bomar
RGB250, RGBS250, RGBSC250, RGBHVC250	2065-11-9	BNC-13	UPL2000-D1	HBC1855A
RGB6C5TS	2065-29-9	BNC-16	UPL2000-D1	N/A
RGBSC260TS	2065-29-9	BNC-16	105-1820-9	N/A
RGB644TS	2065-29-9	BNC-16	105-1820-9	N/A
RGB62TS	2065-29-9	BNC-16	105-1820-9	N/A
VA2/2TP, VA2/3TP	2065-11-9	BNC-13	UPL2000-D1	HBC1855A
VA2/3, VA2/4, VA2/5	2065-2-9	BNC-1	UPL2000-D2	HBC1505A
VDM230, VS5230	2065-11-9	BNC-13	UPL2000-D1	HBC1855A
VDM250	2065-11-9	BNC-13	UPL2000-D1	HBC1855A
VDM250D	2065-11-9	BNC-13	UPL2000-D1	HBC1855A
VE61859M	2065-2-9	BNC-1	UPL2000-D2	HBC1505A
VHD2000M	2065-2-9	BNC-1	UPL2000-D2	HBC1505A
VHD1100, VHD1100PEF	2065-8-9	BNC-25	UPL2000-D5	SBC7731A
VHD1100TK	2065-8-9	BNC-25	UPL2000-D11	SBC7731A
VHD7000	2065-12-9	BNC-27	UPL2000-D13	N/A
VJ59U	2065-7-9	BNC-2	UPL220-13	SBC8241
VP618M	2065-6-9	BNC-4	UPL2000-D10	SBC8281
VP618PE	2065-6-9	BNC-4	UPL2000-D10	SBC8281
VPM2000	2065-2-9	BNC-1	UPL2000-D2	HBC1505A
VPM2000TS/TK	2065-2-9	BNC-6	UPL2000-D8	SBC1506A
VRC618	2065-2-9	BNC-1	UPL2000-D2	HBC1505A
VRC13	2065-2-9	BNC-1	UPL2000-D2	HBC1505A
VS102000, VS52000	2065-2-9	BNC-1	UPL2000-D2	HBC1505A
VS10230	2065-11-9	BNC-13	UPL2000-D1	HBC1855A
VS32001, VS42001, VS52001	2065-10-9	BNC-8	UPL2000-D4	HBC1694A
VSD2001, VSD2001PEF	2065-10-9	BNC-8	UPL2000-D4	HBC1694A
VS102001	2065-10-9	BNC-8	UPL2000-D4	HBC1694A
VSD2001TS	2065-10-9	BNC-10	UPL2000-D6	SBC1695A
VB2095	2065-2-9	BNC-1	UPL2000-D2	HBC1505A
VC2095 Series (Nonplenum)	2065-2-9	BNC-1	UPL2000-D2	HBC1505A
VC2095TS	2065-2-9	BNC-6	UPL2000-D8	SBC1506A
VB1860/VB1890	2065-10-9	BNC-8	UPL2000-D4	HBC1694A
VB1890TS	2065-10-9	BNC-10	UPL2000-D6	SBC1695A
VC1895	2065-10-9	BNC-8	UPL2000-D4	HBC1694A
VC1895TS	2065-10-9	BNC-10	UPL2000-D6	SBC1695A
VC1460/VB1490TK	2065-8-9	BNC-25	UPL2000-D11	SBC7731A
VB5020	755-114-9	N/A	N/A	310A205F
VDM260	2065-29-9	N/A	UPL2000-D24	N/A
RGB644	2065-29-9	N/A	UPL2000-D24	N/A
RGB62	2065-29-9	BNC-16	UPL2000-D24	N/A
RGB6C5	2065-11-9	BNC-13	UPL2000-D1	HBC1855A

## Appendix D: RCA Connector Cross Reference

RCA Connector Cross Reference				
Gepeco Part Number	Kings	ADC	Canare	Bomar
RGB250, RGBS250, RGBSC250, RGBHVC250	3345-3-9	CRCA-13	RCAP-C25F	RBC1855A
RGB6C5TS	3345-4-9	CRCA-16	N/A	N/A
RGBSC260TS	3345-4-9	CRCA-16	N/A	N/A
RGB644TS	3345-4-9	CRCA-16	N/A	N/A
RGB62TS	3345-4-9	CRCA-16	N/A	N/A
VA2/2TP, VA2/3TP	3345-3-9	CRCA-13	RCAP-C25F	RBC1855A
VA2/3, VA2/4, VA2/5	3345-1-9	CRCA-1	RCAP-C4F	RBC1505A
VDM230, VS5230	3345-3-9	CRCA-13	RCAP-C25F	RBC1855A
VDM250	3345-3-9	CRCA-13	RCAP-C25F	RBC1855A
VDM250D	3345-3-9	CRCA-13	RCAP-C25F	RBC1855A
VE61859M	3345-1-9	CRCA-1	RCAP-C4F	RBC1505A
VHD2000M	3345-1-9	CRCA-1	RCAP-C4F	RBC1505A
VHD1100, VHD1100TK, VHD1100PEF	N/A	N/A	N/A	N/A
VHD7000	N/A	N/A	N/A	N/A
VJ59U	N/A	N/A	N/A	N/A
VP618M	N/A	N/A	RCAP-C77	N/A
VP618PE	N/A	N/A	RCAP-C77	N/A
VPM2000	3345-1-9	CRCA-1	RCAP-C4F	RBC1505A
VPM2000TS/TK	3345-1-9	N/A	RCAP-C4F	RBC1505A
VRC618	3345-1-9	CRCA-1	RCAP-C4F	RBC1505A
VRC13	3345-1-9	CRCA-1	RCAP-C4F	RBC1505A
VS102000, VS52000	3345-1-9	CRCA-1	RCAP-C4F	RBC1505A
VS10230	3345-3-9	CRCA-13	RCAP-C25F	RBC1855A
VS32001, VS42001, VS52001	3345-2-9	CRCA-8	RCAP-C53	RBC1694A
VSD2001, VSD2001PEF	3345-2-9	CRCA-8	RCAP-C53	RBC1694A
VS102001	3345-2-9	CRCA-8	RCAP-C53	RBC1694A
VSD2001TS	3345-2-9	CRCA-8	RCAP-C53	RBC1694A
VB2095	3345-1-9	CRCA-1	RCAP-C4F	RBC1505A
VC2095 Series (Nonplenum)	3345-1-9	CRCA-1	RCAP-C4F	RBC1505A
VC2095TS	3345-1-9	N/A	RCAP-C4F	RBC1505A
VB1860/VB1890	3345-2-9	CRCA-8	RCAP-C53	RBC1694A
VB1890TS	3345-2-9	CRCA-8	RCAP-C53	RBC1694A
VC1895	3345-2-9	CRCA-8	RCAP-C53	RBC1694A
VC1895TS	3345-2-9	CRCA-8	RCAP-C53	RBC1694A
VC1460/VB1490TK	N/A	N/A	N/A	N/A
VB5020	N/A	N/A	N/A	N/A
VDM260	3345-4-9	CRCA-16	N/A	N/A
RGB644	3345-4-9	CRCA-16	N/A	N/A
RGB62	3345-4-9	CRCA-16	N/A	N/A
RGB6C5	3345-3-9	CRCA-13	RCAP-C25F	RBC1855A

## Appendix D: F-type Connector Cross Reference

F Connector Reference Chart			
Geppo Part Number	AIM	Canare	ADC
VA2/3, VA2/4, VA2/5	25-7030	FP-C4F	CF-1
VE61859M	N/A	FP-C4F	CF-1
VHD2000M	N/A	FP-C4F	CF-1
VHD1100, VHD1100TK, VHD1100PEF	25-7190	FP-C71	N/A
VJ59U	25-7030	FP-C4	N/A
VP618M	N/A	FP-C51	N/A
VP618PE	N/A	FP-C51	N/A
VPM2000	25-7030	FP-C4F	CF-1
VPM2000TS/TK	25-7049	N/A	N/A
VRC618, VRC13	N/A	FP-C4F	CF-1
VRC618, VRC13	N/A	FP-C4F	CF-1
VS102000, VS52000	25-7030	FP-C4F	CF-1
VS32001, VS42001, VS52001	25-7032	FP-C53	CF-8
VSD2001, VSD2001PEF	25-7032	FP-C53	CF-8
VS102001	25-7032	FP-C53	CF-8
VSD2001TS	25-7047	FP-C55	N/A
VB2095	25-7030	FP-C4F	CF-1
VC2095 Series (Nonplenum)	25-7030	FP-C4F	CF-1
VC2095TS	25-7049	N/A	N/A
VB1860/VB1890	25-7032	FP-C53	CF-8
VB1890TS	25-7047	FP-C55	N/A
VB18Q	25-7034	N/A	N/A
VB18QTS	25-7047	N/A	N/A
VC1895	25-7032	FP-C53	CF-8
VC1895TS	25-7047	FP-C55	N/A
VB1460/VB1490TK	25-7190	FP-C71	N/A

## Appendix D: Triax Connector Cross Reference

Triax Connector Reference Chart											
Gepco Part Number	Kings Part Numbers						ADC Part Numbers				
	Male Tri-Loc® Cable Mount	Female Tri-Loc® Cable Mount	Male Tri-Loc® Panel Mount	Female Tri-Loc® Panel Mount	Female Tri-Loc® Panel Mount (rear mount)	Die	Tool	Male ProAx Cable Mount	Female ProAx Cable Mount	Die	Tool
LVT61811	7705-3	7703-3	7702-3	7702-6	7702-9	KTH-2041	KTH-1000	TCP-C12	TCJ-C12	TD-C	WT-2 or WT-3
LVT61859	7705-2	7703-2	7702-2	7702-5	7702-8	KTH-2002	KTH-1000	TCP-B38	TCJ-B38	TD-BEF	WT-2 or WT-3
LVT61859S	7705-2	7703-2	7702-2	7702-5	7702-8	KTH-2002	KTH-1000	TCP-B38	TCJ-B38	TD-BEF	WT-2 or WT-3
VT61811	7705-1	7703-1	7702-1	7702-4	7702-7	KTH-2040	KTH-1000	TCP-A12	TCJ-A12	TD-ADH	WT-2 or WT-3
VT61811PE	7705-1	7703-1	7702-1	7702-4	7702-7	KTH-2040	KTH-1000	TCP-A12	TCJ-12	TD-ADH	WT-2 or WT-3
VT61811TK	7705-6	7703-8	7702-14	7702-15	N/A	KTH-2040	KTH-1000	N/A	N/A	N/A	N/A
VT61859	7705-2	7703-2	7702-2	7702-5	7702-8	KTH-2002	KTH-1000	TCP-B38	TCJ-B38	TD-BEF	WT-2 or WT-3

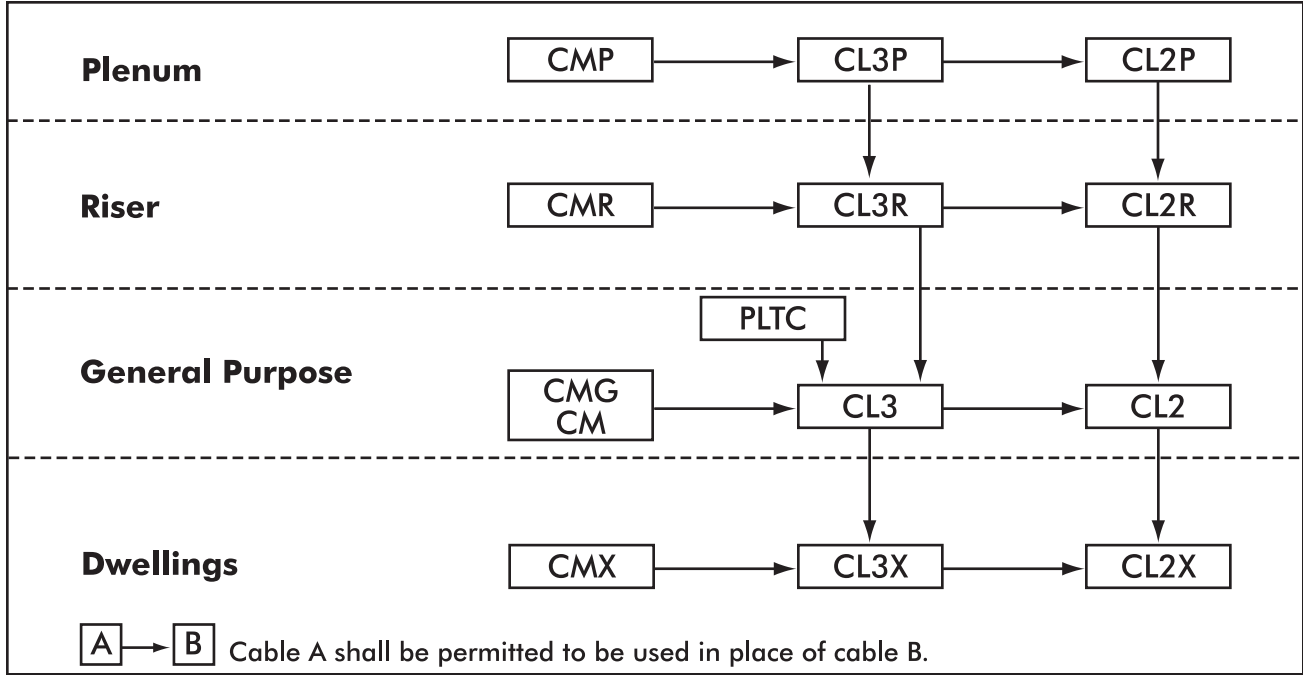
Note: All ADC cable mount ProAx connectors can be converted to panel mount types with optional hardware.

## Appendix D: Hybrid Fiber Connector Cross Reference

Lemo Hybrid Fiber Connector Reference Chart							
Gepco Part Number	Lemo Part Numbers						
	Cable Mount		Panel Mount			Fiber Contacts	
	Plug	Socket	Plug	Socket	Socket (Round)	Plug	Socket
HDC920, HDC920R	FGW.3K.93C.CLMT96Z	PHW.3K.93C.CLCT96Z	FMW.3K.93C.CLMT96Z	PBW.3K.93C.CLCT96Z	PEW.3K.93C.CLCT96Z	PSS.F2.BB2.LCE30	FFS.F2.BB2.LCE30
HDC120P	FGW.3K.93C.CLMT12Z	PHW.3K.93C.CLCT12Z	N/A	N/A	N/A	PSS.F2.BB2.LCE30	FFS.F2.BB2.LCE30

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

Appendix E: NEC Cable Substitution Hierarchy



Cable Uses and Permitted Substitutions

Cable Type	Use	Permitted Substitutions
CMP	Communications plenum cable	MPP
CL3P	Class 3 plenum cable	CMP
CL2P	Class 2 plenum cable	CMP, CL3P
CMR	Communications riser cable	*CMP, MPP, MPR
CL3R	Class 3 riser cable	CMP, CL3P, CMR
CL2R	Class 2 riser cable	CMP, CL3P, CL2P, CMR, CL3R
PLTC	Power-limited Tray Cable	-----
CMG	Communications cable, general purpose	*CMP, CMR, CM, MPP, MPR, MPG, MP
CM	Communications cable, general purpose	*CMP, CMR, CMG, MPP, MPR, MPG, MP
CL3	Class 3 cable	CMP, CL3P, CMR, CL3R, CMG, CM, PLTC
CL2	Class 2 cable	CMP, CL3P, CL2P, CMR, CL3R, CL2R, CMG, CM, PLTC, CL3
CMX	Communications cable, limited use	*CMP, CMR, CMG, CM, MPP, MPR, MPG, MP
CL3X	Class 3 cable, limited use	CMP, CL3P, CMR, CL3R, CMG, CM, PLTC, CL3, CMX
CL2X	Class 2 cable, limited use	CMP, CL3P, CL2P, CMR, CL3R, CL2R, CMG, CM, PLTC, CL3, CL2, CMX, CL3X

\* Substitution allowed by Article 800 only

**Plenum** - Cables installed in ducts, plenums, and other spaces used for environmental air.

**Riser** - Cables installed in vertical runs and penetrating more than one floor, or cables installed in vertical runs in a shaft.

**General Purpose** - For use in locations other than risers or plenums.

**Dwellings** - Cables for use in one, two, or multi-family dwellings and in raceways.

Information taken from Articles 800 and 725 of the 2005 National Electrical Code. Please consult these articles for details regarding specific applications.

## Glossary

**Alum**—Aluminum.

**Alum/Polyester Tape**—Conductive aluminum foil bonded to a non-conductive polyester tape. Provides for improved flexlife and allows for cables without pair jackets to have isolated shields.

**Annealed Wire**—Wire, which after final draw-down, has been heated and slowly cooled to remove the effects of cold working.

**Attenuation**—The decrease in magnitude of a wave as it travels through any transmitting medium, such as cable or circuitry. Attenuation is measured as a ratio or as the logarithm of a ratio (decibel).

**AWG**—American Wire Gage. A wire diameter specification. The higher the AWG number, the smaller the wire diameter.

**AWM**—Designation for appliance wiring material.

**Balanced Circuit**—A circuit so arranged that the impressed voltages on each conductor of the pair are equal in magnitude but opposite in polarity with respect to ground.

**Bandwidth**—The difference between the upper and lower limits of a given band of frequencies. Expressed in Hertz.

**BC**—Bare copper.

**BCCS**—Bare copper clad steel.

**Bel**—A unit that represents the logarithm of the ratio of two levels. The number of bels is equal to the logarithm<sub>10</sub> of (P1/P2) 2 logarithm<sub>10</sub> (11/12). See dB.

**Braid**—A textile or metallic group of filaments interwoven into a cylindrical structure to form a covering over one or more wires or flattened into a strap.

**Capacitance**—Storage of electrically separated charges between two plates having different potentials. The value depends largely on the surface area of the plates and the distance between them. The unit of measurement is expressed in farads.

**Capacitance, Mutual**—The capacitance between two conductors with all other conductors, including shield, short circuited to ground.

**Cellular FEP**—Expanded or "foam" Teflon (fluorinated ethylene-propylene) consisting of individual closed cells of inert gas suspended in a Teflon medium. This results in a reduction of the dielectric constant and an increase in the velocity of propagation percentage.

**Cellular Polyethylene**—Expanded or "foam" polyethylene, consisting of individual closed cells of inert gas suspended in a polyethylene medium, resulting in a reduction of dielectric constant and an increase in velocity of propagation (%).

**Circular Mil**—The area of a circle one mil (.001") in diameter; 7.845 x 10<sup>7</sup> sq. in. Used in expressing wire cross sectional area.

**Coax**—coaxial.

**Coaxial Cable**—A cable consisting of two cylindrical conductors with a common axis, separated by a dielectric.

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

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

**Conductor**—A material suitable for carrying electrical current.

**Crosstalk**—A type of interference caused by sig-

nals from one circuit being coupled into adjacent circuits.

**dB**—Decibel(s).

**DCR**—Direct current resistance.

**Dielectric**—Any insulating material between two conductors which permits electrostatic attraction and repulsion to take place across it.

**Dielectric Constant**—Also called permittivity. That property of a dielectric which determines the amount of electrostatic energy that can be stored by the material when a given voltage is applied to it. Actually, the ratio of the capacitance of a capacitor using the dielectric to the capacitance of an identical capacitor using a vacuum as a dielectric.

**Elastomer**—A class of long chain polymers capable of being crosslinked to produce elastic compounds, e.g., polychloroprene and ethylene propylene rubber.

**Electromagnetic**—Referring to the combined electric and magnetic fields associated with movements of electrons through conductors.

**EMI**—Electromagnetic interference.

**Farad**—Unit of capacitance whereby a charge of one coulomb produces a one volt potential difference.

**FEP®**—Solid Teflon (fluorinated ethylene-propylene) Registered Trademark, Dupont Co.—A fluorocarbon extrudable resin with good electrical insulating properties and chemical and heat resistance.

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

**ft**—Feet.

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

**Halar®**—Registered trademark, Ausimon Corp.

**Impedance**—The total opposition a circuit, cable, or component offers to alternating current. It includes both resistance and reactance and is generally expressed in ohms.

**Impedance, Characteristic**—In a transmission cable of infinite length, the ratio of the applied voltage to the resultant current at the point the voltage is applied. Or, the impedance which makes a transmission cable seem infinitely long, when connected across the cable's output terminals. For a wave guide, it is the ratio of rms voltage to the total rms longitudinal current at certain points on a diameter, when the wave guide is match-terminated.

**Insertion Loss**—A measure of the attenuation of a device by determining the output of a system before and after the device is inserted into the system.

**Insulation**—A material having good dielectric properties which is used to separate close electrical components, such as cable conductors and circuit components.

**Jacket**—Pertaining to wire and cable, the outer sheath which protects against environment and may also provide additional insulation.

**km**—Kilometer.

**m**—Meters.

**M**—1000.

**MHz**—Megahertz (one million cycles per second). Formerly Mc.

**mm**—Millimeter.

**Mylar**—DuPont trade name for a polyester material.

**Noise**—Any spurious or unwanted signal in a cable or electrical circuit, e.g., EMI, RFI, tape, or amplifier thermal noise.

**OHM**—The term used to express resistance in an electrical circuit where the resistance is directly proportional to the voltage and inversely proportional to the current.

**PE**—Polyethylene.

**pF**—Pico farad(s).

**Plenum**—The air return path of a central air handling system, either ductwork or open space over a dropped ceiling.

**Polyethylene**—A family of insulations derived from the polymerization of ethylene gas and characterized by outstanding electrical properties, including high I.R., low dielectric constant, and low dielectric loss across the frequency spectrum. Mechanically rugged, it resists abrasion and cold flow.

**Polypropylene**—A thermoplastic similar to polyethylene but stiffer and having a higher softening point (temperature).

**Polyurethane**—A family of flexible, abrasion resistant polymers used for harsh environment cables.

**Polyvinylchloride**—A general purpose family of insulations whose basic constituent is polyvinylchloride or its copolymer with vinyl acetate. Plasticizers, stabilizers, pigments and fillers are added in lesser quantity to improve mechanical and/or electrical properties of this material.

**PP**—Polypropylene.

**Pro-Ax™**—Trademark of ADC Telecommunications. Camera connector for use with triaxial cable.

**PU**—Polyurethane.

**PVC**—Polyvinylchloride.

**PVDF**—Polyvinylidene fluoride, a fluorocarbon material.

**Shield**—In cables, a metallic layer placed around a conductor to prevent electrostatic interference between the enclosed wires and external fields.

**Solid Conductor**—A conductor consisting of a single wire.

**Stranded Conductor**—A conductor composed of single solid wires twisted together, either singly or in groups.

**TC**—Tinned copper.

**Thermoplastic**—A material which softens when heated or reheated and becomes firm on cooling.

**TPE**—Thermoplastic elastomer.

**Triaxial Cable**—A cable construction having three coincident axes, such as conductor, first shield, and second shield all insulated from one another.

**Tri-Loc®**—Registered trademark of Kings Electronics. Camera connector for use with triaxial cable.

**UL**—(Underwriters Laboratories) A nonprofit independent organization which operates a listing service for electrical and electronic materials and equipment.

**Velocity of Propagation**—The speed of an electrical signal down a length of cable compared to speed in free space expressed as a percent. It is the reciprocal of the square root of the dielectric constant of the cable insulation.



## Part Number Index

## Cable

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7:30 a.m. - 6 p.m. Central Time

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