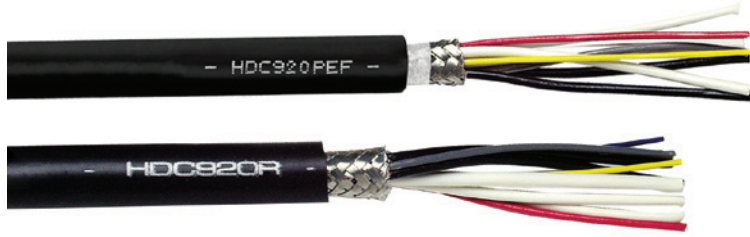


## 9.2 mm Hybrid Fiber Optic



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

### Features & Benefits

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

### Applications

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

### Mechanical Specifications (General)

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

### Mechanical Specifications (Components)

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

### Electrical & Optical Specifications

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

### 9.2 mm Portable, Extra-Flexible

#### Features

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



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

### 9.2 mm Permanent Install

#### Features

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



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

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## 9.2 mm Hybrid Fiber Optic: Heavy Duty



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

### Features & Benefits

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

### Applications

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

Mechanical Specifications (General)							
Part #	Nominal OD	Master Jacket (Type, Colors)	Overall Shield	Approx. Weight			
HDC920HD	9.2 mm	Polyurethane, Black	95% TC Braid	95 lbs/Mft (142 kg/km)			
<i>Heavy-Duty 9.2 mm Hybrid Camera Cable</i>							
HDC920HDG	9.2 mm	Polyurethane, Black	95% TC Braid	100 lbs/Mft (149 kg/km)			
<i>Glossy Heavy-Duty 9.2 mm Hybrid Camera Cable</i>							
Mechanical Specifications (Components)							
Component	Number	Type	Insulation (Type, OD)	Color Code			
Optical	2	Single-Mode Fiber Optic (8.3µm Mode Field, 125µm Cladding)	CPE Fiber Coating, Kevlar® Wrap, Tight Tube PVC Jacket, 0.062" (1.58 mm) Finished O.D.	One Blue, One Yellow			
Signal	2	24 AWG (7x32) Stranded TC	PE, 0.045" (1.14 mm)	One Red, One Gray			
Auxiliary	4	20 AWG (19x32) Stranded TC	PE, 0.060" (1.52 mm)	Two White, Two Black			
Strength Member	1	16 AWG Stranded Steel	PVC, 0.084" (2.13 mm)	One White			
Electrical & Optical Specifications							
Fiber Attenuation	Signal Conductor DCR	Power Conductor DCR	Shield DCR	Insulation Resistance (Power or Signal)	Dielectric Strength (Power or Signal)	Operating Temperature	SMPTE Standard
<0.70 dB/km @ 1310/1550nm	23.8 Ω/Mft	9.7 Ω/Mft	5.4 Ω/Mft	>10M Ω/km	3000 Volts RMS @ 20°C, 60Hz for 1 min.	-40°C to +75°C (@ 0 to 95% humidity)	311 Compliant (Meets or Exceeds)

## 9.2 mm Portable, Heavy-Duty

### Features

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



<b>Cable Type</b>	<b>Color</b>	<b>Standard Lengths</b>	<b>Overbody Boot</b>
<b>GHF92HD</b>	<b>0</b>		<b>OB</b>
HDC920HD	Black	50' 328' 100' 500' 164' 656' 250'	

### Connectors

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

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