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PRODUCTS / PRO-AUDIO, VIDEO & DATA CABLE / CAMERA CABLE / 9.2mm Hybrid Fiber Optic

9.2mm Hybrid Fiber Optic



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.

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

Mechanical Specifications (Series)

Component	Number	Type	Insulation	Color Code
Optical	2	Single-mode 9.5 Micron Mode Field 125 Micron 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 (Individual)

Part #	Nominal OD	Master Jacket (type, colors)	Overall Shield	UL Type	Approx. Weight
HDC920	9.20mm	Flexible Thermoplastic, Black	95% TC Braid	AWM	90 lbs/Mft
		<i>Extra Flexible Hybrid Camera Cable</i>			
HDC920R	9.20mm	PVC, Black	95% TC Braid	CMR	91 lbs/Mft
		<i>Permanent Install 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
< 0.50 dB/Km @ 1310nm/1550mm	23.8 Ω/Mft	9.7 Ω/Mft	5.4 Ω/Mft	>10M Ω/km	3000 Volts RMS @ 20°C, 60Hz for 1 min.	-40°C to +75°C (@ 0 to 95% humidity)	311M Compliant (meets or exceeds)

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