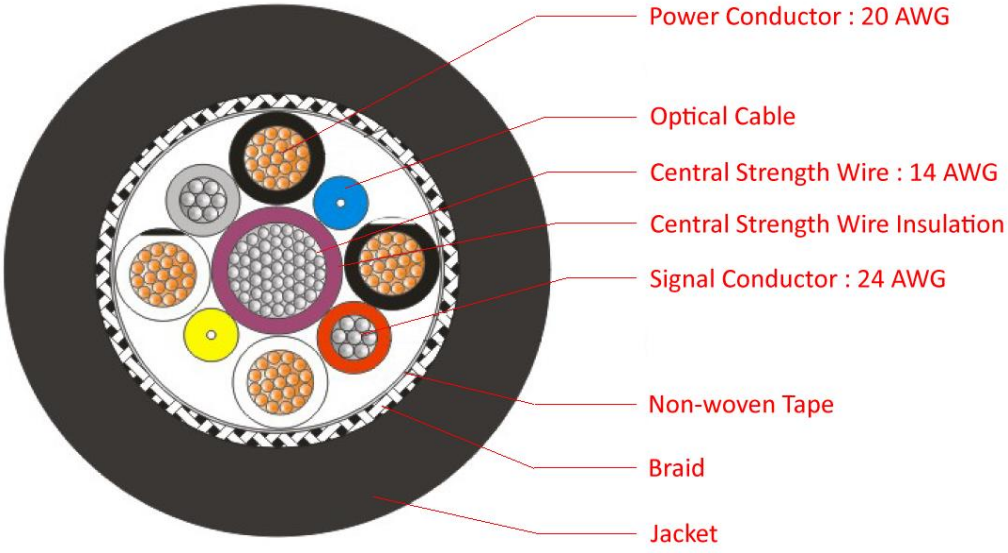
CANFORD SMPTE311 FIBRE HDTV CABLE



36-618 CANFORD SMPTE311 FIBRE HDTV CAMERA CABLE, PU

DESCRIPTION

A hybrid cable containing single-mode fibre optic and copper cores, meeting the SMPTE311M standard for HDTV camera connections. The cable handles video, audio and control signals plus power between camera and base units. It is suitable for use with hybrid connectors produced by manufacturers such as Canare and Lemo. The robust but flexible polyurethane (PU) outer sheath version is suitable for both OB and studio floor use.

SPECIFICATIONS

Power Conductors x 4

Conductor	19/0.2mm (AWG 20), tinned copper	
Diameter	1.57mm +/- 0.08mm Insulation HDPE	
Insulation	HDPE	
Insulation thickness	Nominal	0.28mm
	Minimum	0.23mm
Colours	Black	
	White	
	Black with White strip	
	White with Black strip	

Signal Conductors x 2

Conductor	7/0.2mm (AWG 24), tinned copper	
Diameter	1.22mm +/- 0.05mm	
Insulation	HDPE	
Insulation thickness	Nominal	0.30mm
	Minimum	0.25mm
Colours	Red	
	Grey	

Single Mode Fibre x 2

Fibre	9/125 – ITU G.657A
Insulation	Thermoplastic
Diameter	0.9 ± 0.1 mm
Colours	Yellow
	Blue

Central Strength Wire x 1

Conductor	19/0.30mm (AWG 16), steel twisted together
Insulation	HDPE
Diameter	2.16mm +/- 0.10mm
Colour	Purple

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Tape

Non-woven tape	Wrap ≥ 25% overlap
Diameter (over tape)	5.40mm +/- 0.20mm

Braid

Material	tinned copper
Coverage	≥ 80%
Diameter (over braid)	6.20mm +/- 0.20mm

Jacket

Material	Polyurethane
Diameter	9.2mm +/- 0.15mm
Insulation thickness	Nominal 1.50mm
Colour	Black

Cable Performance Characteristics:

Mechanical

Max. Pulling tension		750 N
Operating temperature		-40 to +75 °C
Min. Bend radius for fibres		25 mm (installation & operation)
		Max. increase 0.02 dB/turn @1550nm (32mm)
		Max. increase 0.20 dB/turn @1550nm (20mm)
Min. Bend radius for cable		65mm (7 x Ø of cable)

Electrical

Conductor DC resistance @ 20°C		20 AWG Power Conductors ≤36.0 Ω/km
		24 AWG Signal Conductors) ≤92.0 Ω/km

Optical

Optical attenuation @ 1310nm	Average:	0.35 dB/km
	Max:	0.50 dB/km