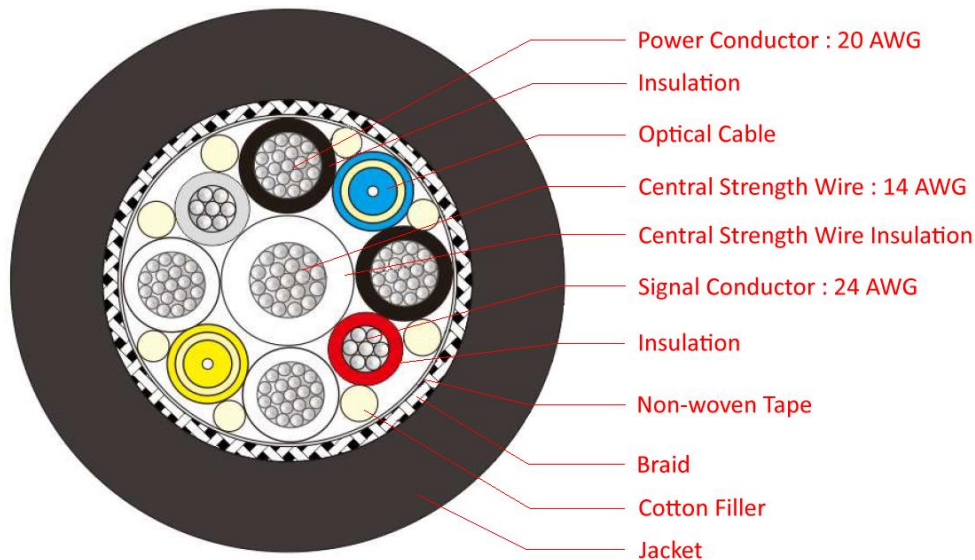




CANFORD SMPTE311 FIBRE HDTV CABLE



36-621 CANFORD SMPTE311-F FIBRE HDTV CAMERA CABLE, TPE, Flexible

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 thermoplastic elastomer (TPE) outer sheath is suitable for applications where added flexibility is required above that offered by polyurethane jacketed cables.

SPECIFICATIONS

Power Conductors x 4

Conductor	19/0.2mm (AWG 20), tinned copper	
Diameter	1.50mm +/- 0.10mm	
Insulation	LDPE (Low Density Polyethylene)	
Insulation thickness	Nominal	0.25mm
Colours	2x Black 2x White	

Signal Conductors x 2

Conductor	7/0.2mm (AWG 24), tinned copper	
Diameter	1.10mm +/- 0.05mm	
Insulation	LDPE (Low Density Polyethylene)	
Insulation thickness	Nominal	0.20mm
Colours	Red Grey	

Single Mode Fibre x 2

Fibre	9/125 – ITU G.657A	
Insulation	Thermoplastic	
Diameter	1.8 ± 0.1 mm	
Colours	Yellow Blue	

Central Strength Wire x 1

Conductor	19/0.30mm (AWG 16), steel	
Insulation	TPE	
Diameter	2.10mm +/- 0.10mm	
Colour	White	



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PaperTape

Non-woven tape Wrap $\geq 25\%$ overlap
 Diameter (over tape) 5.80mm +/- 0.20mm

Braid

Material tinned copper
 Coverage $\geq 95\%$
 Diameter (over braid) 6.30mm +/- 0.20mm

Jacket

Material Thermoplastic elastomer
 Diameter 9.20mm +/- 0.15mm
 Insulation thickness Nominal 1.40mm
 Colour Black

Cable Performance Characteristics:

Mechanical

Max. Pulling tension 800 N
 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 \varnothing of cable)

Electrical

Conductor DC resistance @ 20°C 20 AWG Power Conductors $\leq 35.3 \Omega/\text{km}$
 24 AWG Signal Conductors $\leq 97.5 \Omega/\text{km}$
 Overall screen DC resistance @ 20°C $\leq 20 \Omega/\text{km}$
 Insulation resistance $\geq 104 \text{M}\Omega/\text{km}$
 Test voltage AC/1750V/5s
 Operating voltage $\leq 300\text{V}$

Optical

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