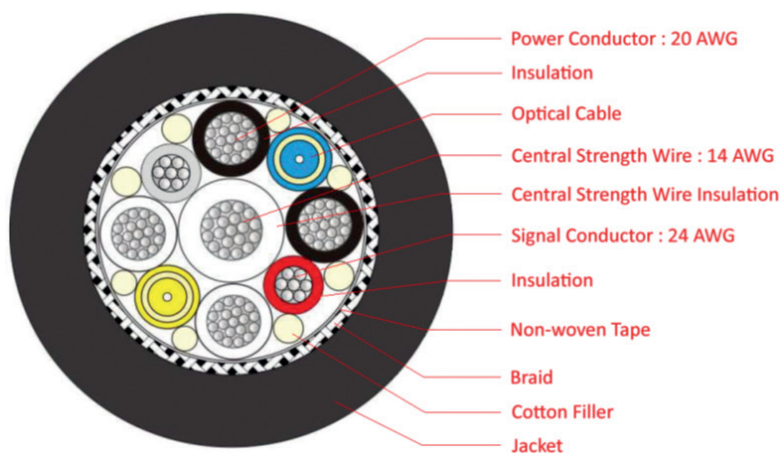


## Technical Data Sheet

### 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	HDPE
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



## Paper Tape

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

### Optical

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