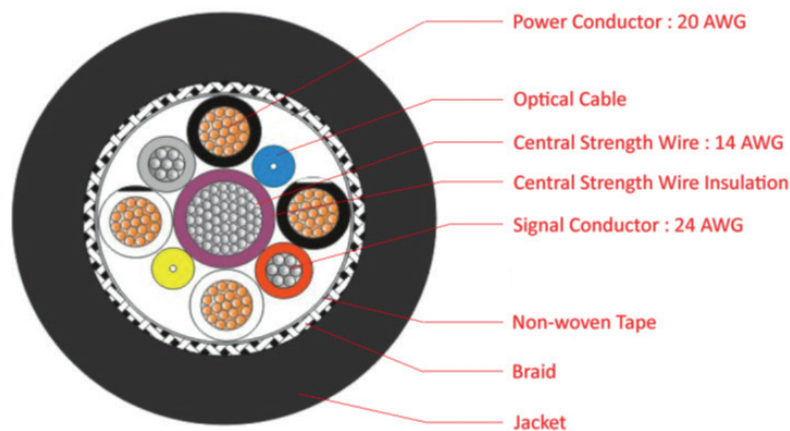




## Technical Data Sheet

### 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

<b>Conductor</b>	19/0.2mm (AWG 20), tinned copper
<b>Diameter</b>	1.57mm +/- 0.08mm Insulation HDPE
<b>Insulation</b>	HDPE
<b>Insulation thickness</b>	Nominal 0.28mm Minimum 0.23mm

<b>Colours</b>	Black White Black with White strip White with Black strip
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##### Signal Conductors x 2

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

##### Single Mode Fibre x 2

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

##### Central Strength Wire x 1

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



## Tape

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

## Braid

Material	tinned copper
Coverage	$\geq$ 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 $\varnothing$ of cable)

#### Electrical

Conductor DC resistance @ 20°C	20 AWG Power Conductors $\leq$ 36.0 $\Omega$ /km 24 AWG Signal Conductors) $\leq$ 92.0 $\Omega$ /km
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#### Optical

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