

LSZH Fibre Hybrid HDTV Camera Cable - SMPTE 311 M

Event[®] install



Application

When carrying HD-SDI video many venues and large facilities need longer distances. SMPTE 311 M is the solution that fills that requirement. Designed for high-definition (HD) cameras, this composite cable can carry multiplex audio signals, video signals and deliver power.

Cable Design

Element 1Auxillary Conductor (4x0,6mm²)

Conductor.....Stranded tinned copper wire (19x0,20mm) 20awg Ø 1,0 mm

Insulation.....LSZH FireFighter Ø 1,50 mm

Core identification.....Black, White numbered (BK/1, BK/2, WH/1, WH/2)

Element 2Signal Conductors (2x0,22mm²)

Conductor.....Stranded tinned copper wire (7x0,20mm) 24awg Ø 0,6 mm

Insulation.....LSZH FireFighter Ø 1,40 mm

Core identification.....Red / Grey

Element 3Fibre Optic (2x9/125µm) Tight Buffered

Wavelength.....1310 nm

Attenuation.....0,5 dB/km

Identification.....Blue, Yellow

Diameter.....1,60 mm

Attenuation.....according to SMPTE311-2009 ≤ 0.8 dB/km (method FOTP-61).



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Lay up and Construction

Central Element.....LSZH sheathed 19x0,35mm Steel stranded wire Ø 2,40mm
 Cable CoreElements 1, 2 and 3 around Central element with fillers
 Tape.....Plastic tape overlapped
 Braid.....Tinned copper wire braid. coverage 80 % (nom.) Ø 5,90mm
 Outer JacketLSZH FireFighter (IEC 60332-3-24 Cat.C) Ø 9,0 ± 0,3 mm

Electrical Data

Conductor Resistance	0,22 mm ²	≤	95	Ohm/km
Conductor Resistance	0,60 mm ²	≤	34	Ohm/km
Overall Screen Resistance		≤	20	Ohm/km
Insulation Resistance		≥	20	MOhm*km
Operating Voltage (peak)		≤	300	V
Test voltage (wire/wire/screen rms 50Hz 1 min.)			1500	V

Mechanical & Thermal Characteristics

Permissible Temperature Range		-30 °C up to +70 °C
Min. Bending Radius	Dynamic	15 x Ø
Min. Bending Radius	Static	10 x Ø
Max. Pull Force		800 N
Weight (approx.)		125kg/km
Flame Retardant		acc. to IEC 60332-3-24 (Cat.C)

Specification

Part Number	Type
406311 M	LSZH Fibre Hybrid HDTV Camera Cable