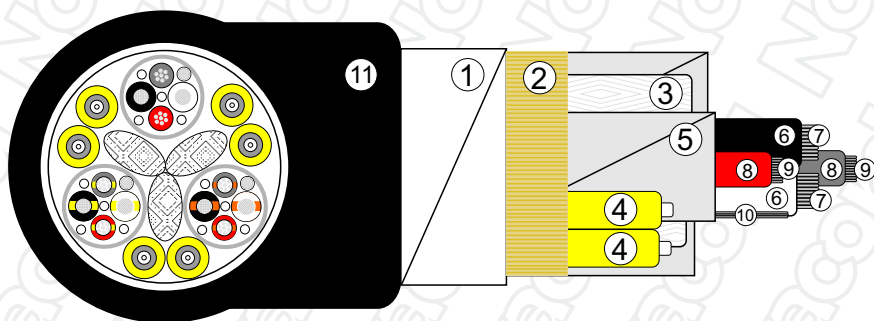


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Hybrid Composite Cable 3xSMPTE FRNC-C/LSZH

Standard 3 channel SMPTE 311M Cable for HDTV cameras, live broadcasts on stadiums. Composition: 6 SM Fibers, 6 Conductors 24 AWG, 6 Conductor 18 AWG. It is used in professional video productions for simultaneous transmission of energy, video, audio and control signals and is intended to interconnect Camera Units and Base Stations in conjunction with the Connector Interface Standard

Construction diagram



- 1 - Waterblock tape
- 2 - Aramid yarn
- 3 - Fillers
- 4 - Optical fiber
- 5 - Screen
- 6 - Insulation (S)
- 7- Conductor (S)
- 8 - Insulation (P)
- 9 - Conductor (P)
- 10 - Drain wire
- 11 - Jacket

HIGHEST QUALITY - RELIABILITY - INNOVATION

Hybrid HD Camera Cable 6xSM 9/125 + 6xAWG24 + 6xAWG18 acc. to SMPTE 311M-Standard

Structure

Conductor (P)	Cross Sec. Area	0.22 mm ² , Ø 0.61 mm
	No. of Cores	6 cores
	Material	Tinned OFC
	Type of conductor	Stranded
	Strands	7/0.2 ±0.008 mm
Insulation (P)	Material	PVC
	Diameter	1.0 ±0.1 mm
	Color	Red, Grey
Conductor (S)	Cross Sec. Area	1,02 mm ² , Ø 1.14 mm
	No. of Cores	6 cores
	Material	Tinned OFC
	Type of conductor	Stranded
Insulation (S)	Strands	19/0.254±0.008 mm
	Material	PVC
	Diameter	2.0 ±0.1 mm
	Color	White, Black
Screen	Type	Aluminum foil
	Coverage	100%
	Composition	Under Each Quad's
Fiber	Mode Field Diameter	9.5+/-1µm
	No. of Cores	6
	Core diameter	125+/-3µm
	Core-clad Concentricity Error	< 1µ m
	Buffer Tube Diameter	0.9 mm
	Breakout Element Material	PVC
	Buffer Tube Material	PVC
	Fiber color coding	Yellow printed
Fillers	Cotton	
Strength Member	Aramid yarn	
Waterblock type	Mylar	
Jacket	Material	FRNC-C/LSZH
	Diameter	14.8 ±0.2 mm
	Color	Black, RAL9005

Hybrid HD Camera Cable 6xSM 9/125 + 6xAWG24 + 6xAWG18 acc. to SMPTE 311M-Standard

Mechanical properties

Temperature range	-25°C to +70°C
Bending radius	150 mm / 10xD (outer diameter)
Max pull tension	2700 N
Weight (1 km)	230 kg

Optical properties

Fibre Optic Single Mode (6 x 9/125 μ)

Cutt-off wavelength	1310nm, 1550 nm
Attenuation	at 1310 nm 0.38 dB/km
	at 1550 nm 0.24 dB/km

Electrical properties

20°C

Conductors AWG18

DC resistance	$\leq 21.89 \Omega/\text{km}$
Insulation resistance	$\leq 10^4 \text{ M}\Omega/\text{km}$

Conductors AWG24

DC resistance	$\leq 85.96 \Omega/\text{km}$
Insulation resistance	$\leq 10^4 \text{ M}\Omega/\text{km}$

Standarts

Flame resistance	IEC 60332-1-2
Reaction to Fire - Bundle Flame	IEC 60332-3-24
Amnt of Halogen	zero

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