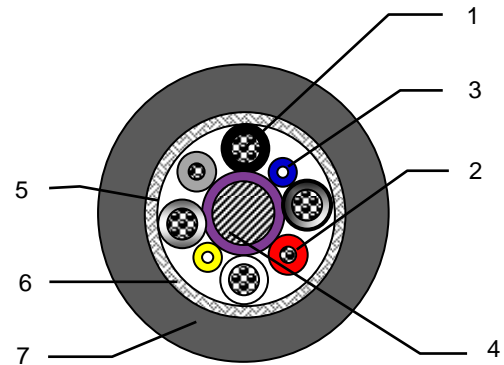


7804ECH

Indoor/Mobile SMPTE Cable
4 Power cable cores + 2 Signal cable
Cores + 2 Tight buffered fibres +
Tinned copper braid +
FRNC jacket



Applications

- Hybrid optical fibre cable designed to meet the SMPTE311M standard for HD television cameras and for use in studio applications.

General Standards

- European standard EN 50117-1 and EN 50117-2-1
- SMPTE311M compliant
- Heat resistant.
- Indoor and mobile use
- Available with special put-up for easy connectorization on the drum.
- Bend Insensitive Optical Fibers acc. to ITU G.657A
- Strength member for extra durability
- Black Brilliance® outer jacket is UV-resistant
- Complies with Flame test IEC 60332-3-24. and IEC 60754-2 Smoke Corrosivity (pH ≥ 3.5 – Conductivity ≤ 100 µS/cm).

Construction & Dimensions

1. Component A (4 Power Conductors)

Conductor	AWG 20 (19x32) Tinned copper
Insulation	HDPE
Nominal diameter	1.57 mm
Colours	Black, White, Black/White and White/Black

2. Component B (2 Signal Conductors)

Conductor	AWG 24 (7x32) Tinned copper
Insulation	HDPE
Nominal diameter	1.22 mm
Colours	Red and Grey

3. Component C (2 Tight buffered fibres)

Fiber	Single mode (9/125 – ITU G.657A)
Insulation	Thermoplastic
Diameter	0.9 ± 0.1 mm
Colours	Blue and Yellow

4. Central Strength Member

Up jacketed stranded steel member	
Conductor	AWG 14 Stainless steel
Insulation	HDPE
Nominal diameter	2.16 mm
Colours	Violet

5. Barrier tape	Non-woven foil 25% overlap
6. Shield	Overall tinned copper braid 80 % min. coverage
7. Jacket	
Material	FRNC
Nom. wall	1.50 mm
Nom. diameter	9.2 mm
Colours	Black

Printlegend

TEKST:"VIDEO BRILLIANCE(R) BY BELDEN 7804ECH SMPTE311M COMPOSITE SINGLE MODE FIBER OPTIC CAMERA CABLE 2F9UM 2C24 4C20 SHIELDED FRNC/LSNH IEC 60332-3-24 MMY" + meter marking
MM= month, YY=year

Mechanical characteristics

Parameter	Specification	Unit
Max. Pulling tension	750	N
Flame retardancy	IEC 60332-3-24	
Halogen content	IEC 60754-1	
Corrosivity of fire gasses	IEC 60754-2	
Conductivity	≤ 100	μS/cm
pH value	≥ 3.5	
Smoke emission	EN 61034	
Operating temperature	-40 to +75	°C
Min. Bending radio for fibres (installation / operation)	25	mm
	Max. increase 0.02 dB/turn @1550nm	
	Max. increase 0.20 dB/turn @1550nm	
Min. Bending radio cable	7xØ	

Electrical characteristics

Test methods in accordance with European standard EN 50117-1

Parameter	Specification	Unit
Optical attenuation @ 1310 nm (tight)	Average: 0.35	dB/km
	Maximum: 0.5	dB/km
Component A (20 AWG) DCR	< 36	Ω/km
Component B (24 AWG) DCR	< 92	Ω/km

Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.

