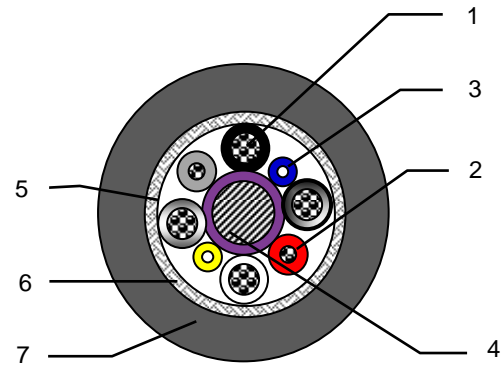


7804ENH

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 halogen-free 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 60332-1-2. 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 shield 80 % min. coverage |
| 7. Jacket | |
| Material | FRNC |
| Nom. wall | 1.50 mm |
| Nom. diameter | 9.2 mm |
| Colours | Black |

Printlegend

VIDEO BRILLIANCE(R) BY BELDEN-NL 7804ENH SMPTE311M COMPOSITE SINGLE MODE FIBER OPTIC CAMERA CABLE 2F9UM 2C24 4C20 SHIELDED FRNC/LSNH IEC 60332-1 MMY"+ meter marking MM= month, YY=year

Mechanical characteristics

| Parameter | Specification | Unit |
|--|------------------------------------|-------|
| Max. Pulling tension | 750 | N |
| Flame retardancy | IEC 60332-1-2 | |
| 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.

