

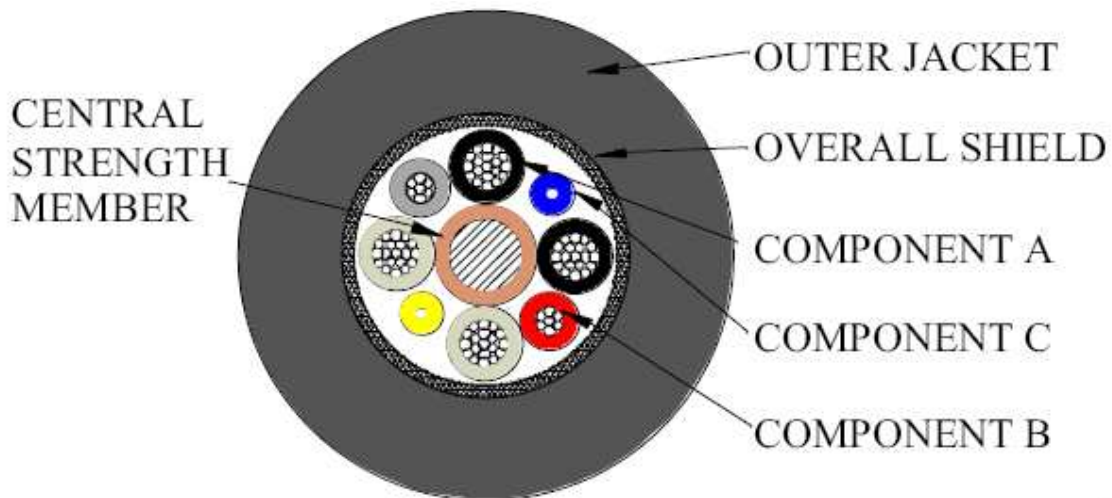
## Application

- These hybrid optical fibre cables are designed to meet the SMPTE311M standard for HD television cameras and used in studio and field applications.

## Benefits and Features

- SMPTE311M compliant
- Heat resistant.
- Indoor and mobile use
- Available with special put-up for easy connectorization on the drum.
- Strength member for extra durability
- Black Brilliance® outer jacket is UV-resistant
- The flame resistant of the halogen-free version complies with IEC 60332-1.

## 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 – G.652D).  
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. Cable Assembly:**

All of the above components cabled to make round

**6. Barrier:**

Non woven foil 25% overlap

**7. Shield:**

Overall tinned copper braid shield  
80 % min. coverage

**8. Jacket:**

Material: Polyurethane, FRNC/LSNH or PVC  
Nom. wall: 1.50 mm  
Nom. diameter: 9.2 mm.  
Colours: Black

**Printlegend:**

PVC version:

"VIDEO BRILLIANCE(R) BY BELDEN-NL 7804E SMPTE311M COMPOSITE SINGLE MODE FIBER OPTIC CAMERA CABLE 2F9UM 2C24 4C20 SHIELDED PVC MMY" + meter marking  
MM= month, YY=year

FRNC/LSNH version:

"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

PUR version:

VIDEO BRILLIANCE(R) BY BELDEN-NL 7804EPU SMPTE311M COMPOSITE SINGLE MODE FIBER OPTIC CAMERA CABLE 2F9UM 2C24 4C20 SHIELDED PUR MMY"+ meter marking  
MM= month, YY=year

**Optical, Electrical and Mechanical specifications**

<b>Optical attenuation @ 1310 nm</b>	Tight Average/max (dB/km) 0.35/ 0.5
<b>Component A (20 AWG) DCR:</b>	< 36 Ω/km
<b>Component B (24 AWG) DCR:</b>	< 92 Ω/km
<b>Max. Pulling tension</b>	750 N
<b>Min. Bending radii cable</b>	7xØ
<b>Flame retardancy</b>	Halogen version according to IEC 60332-1
<b>Operating temperature</b>	-40°C to 75°C

**Belden European Part Numbers**

Type	7804ENH	7804EPU	7804E
	Halogen-free	Heavy-duty	Flexible
	Studio applications	Field applications	Studio applications
	PE insulation Black FRNC/LSNH jacket	PE insulation Black PUR jacket	PE insulation Black PVC jacket
Std. delivery length	305 / 500 / 1000 m		
Cable weight	135 kg / 1000 m		

**Updates**

**Revised:**

Revision number	Description	Date	Initials
01	Introduction	21/12/07	HB
02			
03			
04			

