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please call

1-800-Belden1



### General Description:

Industry Standard SMPTE 311M Cable Waterblocked, 4 power conductors, SM fibers w/24 and 20 AWG stranded (7x32 and 19x32) TC conductors, PVC insulation, TC braid shield (95% coverage), Belflex® jacket.

### Usage (Overall)

Suitable Applications: SMPTE 311M Camera Cable

### Twisted Pair

Physical Characteristics  
Individual Shield

### Multi Conductor

Physical Characteristics  
Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
2	24	7x32	TC - Tinned Copper	0.024
4	20	19x32	TC - Tinned Copper	0.037

### Insulation

Insulation Material:

Insulation Material	Dia. (in.)	AWG
PVC - Polyvinyl Chloride	0.063	20
PVC - Polyvinyl Chloride	0.050	24

Insulation Color Code Chart:

Number	Color	Description
1	Red	24 AWG
2	Gray	24 AWG
3	White	20 AWG
4	Black	20 AWG
5	White/Black	20 AWG
6	Black/White	20 AWG

### Individual Shield

### Electrical Characteristics

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
24 AWG	23.300
20 AWG	8.800

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.500

### Fiber

### Physical Characteristics

Fiber Type:	Non-Dispersion Shifted, Single Mode/125/900 Micron
Number of Fibers:	2
Mode Field Diameter @ 1310nm:	9.5 +/-1 microns
Clad Diameter:	125 microns
Core-clad Concentricity Error:	< to 1 micron
Primary Coating Material:	Acrylate
Buffer Tube Diameter:	900 microns
Buffer Tube Material:	PVC - Polyvinyl Chloride

Buffer Tube Color Code Chart:

Number	Color
1	Blue
2	Yellow

### Optical Characteristics

Maximum Attenuation @ 1310nm: 0.8 dB/km

### Physical Characteristics (Overall)

#### Conductor

#### Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	95.000

Outer Shield Separator Material: Water-blocking Tape

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

#### Strength Member

Overall Strength Member Diameter: .089

Strength Member Material: 302 Stainless Steel

#### Overall Cable

Overall Nominal Diameter: 0.362 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +60°C

Bulk Cable Weight: 78 lbs/1000 ft.

Max. Recommended Pulling Tension: 450 lbs.

Min. Bend Radius/Minor Axis: 3.500 in.

Crush Resistance: Compression, FOTP-41: 397 lbs.

Impact Resistance: FOTP-25: 20 Cycles @ 1.32 lbs.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 8/02/2011

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

Other Specification: SMPTE 311

#### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Burial: Yes

Sunlight Resistance: Yes

Suggested Connectors: SMPTE 304M Connectors

#### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

Other Electrical Characteristic 1: Auxillary Conductors: DC Loop Resistance - 30 Ohms/km nom. (9.1 Ohms/1000ft.) Min. Insulation Resistance - 10, 000 Megaohms x km Dielectric Strength - 1750 V RMS. Signal Conductors: DC Loop Resistance - 150 Ohms/km nom. (45.7 Ohms/1000 ft.) Insulation Resistance - 10, 000 Megaohms/1000 ft. Dielectric Strength: 1750 V RMS

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

## 7804WB Composite - SMPTE 311M HDTV Cable

### Notes (Overall)

**Notes:** Bend Radius is based upon (FOTP-37) @ 20°C. Plenum version and other conductor counts/diameters available by special order.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7804WB 0101000	1,000 FT	85.000 LB	BLACK		COMPOSITE CAMERA CABLE PO

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