

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

## 7804WB Composite - SMPTE 311M HDTV Cable



For more Information  
please call

1-800-Belden1



### Description:

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
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### 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

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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:	.45 dB/km
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## Physical Characteristics (Overall)

### Conductor

### Outer Shield

#### Outer Shield Material:

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

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

### Strength Member

Overall Strength Member Diameter:	.089
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Strength Member Material:	302 Stainless Steel
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### Overall Cable

Overall Nominal Diameter:	0.362 in.
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## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C
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Bulk Cable Weight:	75 lbs/1000 ft.
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Max. Recommended Pulling Tension:	450 lbs.
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Min. Bend Radius (Install)/Minor Axis:	3.500 in.
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Crush Resistance:	Compression, FOTP-41: 397 lbs.
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Impact Resistance:	FOTP-25: 20 Cycles @ 1.32 lbs.
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## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	8/02/2011
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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Other Specification:	SMPTE 311M
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### Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
Suitability - Burial:	Yes
Sunlight Resistance:	Yes
Suggested Connectors:	SMPTE 304M Connectors
<b>Plenum/Non-Plenum</b>	
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
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### Notes (Overall)

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

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

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

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