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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. (mm)
2	24	7x32	TC - Tinned Copper	0.610
4	20	19x32	TC - Tinned Copper	0.940

Insulation

Insulation Material:

Insulation Material	Dia. (mm)	AWG
PVC - Polyvinyl Chloride	1.600	20
PVC - Polyvinyl Chloride	1.270	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/km)
24 AWG	76.447
20 AWG	28.873

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
11.484

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
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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 Shield Separator Material:	Water-blocking Tape
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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:	9.195 mm
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Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C
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Bulk Cable Weight:	116.080 Kg/Km
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Max. Recommended Pulling Tension:	2001.690 N
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Min. Bend Radius/Minor Axis:	88.900 mm
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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 2011/65/EU (ROHS II):	Yes
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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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7804WB Composite - SMPTE 311M HDTV Cable

MII 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
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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 Megohms 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 Megohms/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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7804WB 010CUT	1 FT	0.000	BLACK		COMPOSITE CAMERA CABLE PO
7804WB 010X	1,000 FT	85.000 LB	BLACK		COMPOSITE CAMERA CABLE PO
7804WB 0101000	1,000 FT	85.000 LB	BLACK		COMPOSITE CAMERA CABLE PO
7804WB 0101500	1,500 FT	126.000 LB	BLACK		COMPOSITE CAMERA CABLE PO
7804WB 0102500	2,500 FT	205.000 LB	BLACK		COMPOSITE CAMERA CABLE PO
7804WB 0103000	3,000 FT	249.000 LB	BLACK		COMPOSITE CAMERA CABLE PO
7804WB 0103280	3,280 FT	272.240 LB	BLACK		COMPOSITE CAMERA CABLE PO
7804WB 010700	700 FT	58.100 LB	BLACK		COMPOSITE CAMERA CABLE PO
7804WB 010750	750 FT	62.250 LB	BLACK		COMPOSITE CAMERA CABLE PO

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