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please call

1-800-Belden1



General Description:

Light Duty SMPTE 311M Cable, 4 power conductors, SM fibers w/24 and 20 AWG stranded (7x32 and 19x32) TC conductors, PO insulation, TC braid shield (85% coverage), Belflex® jacket.

Usage (Overall)

Suitable Applications: SMPTE 311M Camera Cable

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
PO - Polyolefin	1.575	20
PO - Polyolefin	1.219	24

Insulation Color Code Chart:

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

7804LW Composite - SMPTE 311M HDTV Cable

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	85.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Belflex®	PVC Blend - Polyvinyl Chloride Blend

Strength Member

Overall Strength Member Diameter:	.085
Strength Member Material:	302 Stainless Steel

Overall Cable

Overall Nominal Diameter:	9.068 mm
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Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
Bulk Cable Weight:	119.056 Kg/Km
Max. Recommended Pulling Tension:	2001.690 N
Min. Bend Radius/Minor Axis:	63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Rating:	UL AWM Style 20907 (300V 60°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	SMPTE 311

Flame Test

UL Flame Test:	VW-1
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Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

7804LW Composite - SMPTE 311M HDTV Cable

Sunlight Resistance:	Yes
Suggested Connectors:	SMPTE 304M Connectors

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	7804P
Non-Plenum Number:	7804C, 7804R, 7804WB

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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7804LW 010CUT	1 FT	0.075 LB	BLACK		COMPOSITE CABLE BRD PVC
7804LW 0101000	1,000 FT	73.000 LB	BLACK		COMPOSITE CABLE BRD PVC
7804LW 0103280	3,280 FT	249.280 LB	BLACK		COMPOSITE CABLE BRD PVC
7804LW 010500	500 FT	37.000 LB	BLACK		COMPOSITE CABLE BRD PVC

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