Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

7804P Composite - SMPTE 311M HDTV Cable



For more Information please call

1-800-Belden1



General Description:

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

sage (Overall)			
Suitable Applications:	Camera Cable compliant with SMPTE 311M		
visted Pair			
hysical Characteristics			
Individual Shield			
ulti Conductor			
hysical 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			
FEP 0.054 20			
FEP 0.038 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			
lectrical 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			
hav			
ber hysical Characteristics			
Fiber Type:	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		

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2 Yellow				
Optical Characteristics Maximum Attenuation @ 1310nm:	0.8 dB/km			
hysical Characteristics (Overall)				
Outer Shield				
Outer Shield Material: Type Outer Shield Material Coverage (%)				
Braid TC - Tinned Copper 95.000				
Outer Jacket				
Outer Jacket Material: Outer Jacket Trade Name Outer Jacket Material				
Flamarrest® PVC				
Strength Member				
Overall Strength Member Diameter:	.079			
Strength Member Material:	302 Stainless Steel			
Overall Cable				
Overall Nominal Diameter:	0.259 in.			
Rechanical Characteristics (Overall)				
Operating Temperature Range:	-20°C To +60°C			
Bulk Cable Weight:	62 lbs/1000 ft.			
Max. Recommended Pulling Tension:	450 lbs.			
Min. Bend Radius/Minor Axis:	2.500 in.			
Flex Cycle Rating:	UL1581, Sec. 1582: 15,000 Cycles @ 3.6			
Crush Resistance:	Compression, FOTP-41: 397 lbs.			
Impact Resistance:	FOTP-25: 20 Cycles @ 1.32 lbs.			
Applicable Specifications and Agency Compl	liance (Overall)			
Applicable Standards & Environmental Programs				
NEC/(UL) Specification:	СМР			
CEC/C(UL) Specification:	СМР			
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):	09/23/2011			
EU Directive 2002/96/EC (WEEE):	Yes			
EU Directive 2003/11/EC (BFR):	Yes			
	Yes			
CA Prop 65 (CJ for Wire & Cable):				
CA Prop 65 (CJ for Wire & Cable): MII Order #39 (China RoHS):	Yes			
	Yes SMPTE 311			
MII Order #39 (China RoHS): Other Specification: Flame Test	SMPTE 311			
MII Order #39 (China RoHS): Other Specification: Flame Test UL Flame Test:	SMPTE 311 UL910 Steiner Tunnel			
MII Order #39 (China RoHS): Other Specification: Flame Test UL Flame Test: CSA Flame Test:	SMPTE 311			
MII Order #39 (China RoHS): Other Specification: Flame Test UL Flame Test: CSA Flame Test: Suitability	SMPTE 311 UL910 Steiner Tunnel FT6			
MII Order #39 (China RoHS): Other Specification: Flame Test UL Flame Test: CSA Flame Test: Suitability Suitability - Indoor:	SMPTE 311 UL910 Steiner Tunnel FT6 Yes			
MII Order #39 (China RoHS): Other Specification: Flame Test UL Flame Test: CSA Flame Test: Suitability Suitability - Indoor: Suggested Connectors:	SMPTE 311 UL910 Steiner Tunnel FT6			
MII Order #39 (China RoHS): Other Specification: Flame Test UL Flame Test: CSA Flame Test: Suitability Suitability - Indoor:	SMPTE 311 UL910 Steiner Tunnel FT6 Yes			

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Other Electrical Characteristic 1:

Auxillary Conductors: DC Loop Resistance - 30 Ohms/km nom. (9.1 Ohms/1000tt.) Min. Insullation 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

Notes (Overall)

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7804P 0101000	1,000 FT	63.000 LB	BLACK		COMPOSITE CAMERA CABLE PVC
7804P 0101640	1,640 FT	101.680 LB	BLACK		COMPOSITE CAMERA CABLE PVC
7804P 0103280	3,280 FT	203.360 LB	BLACK		COMPOSITE CAMERA CABLE PVC
7804P 010500	500 FT	33.000 LB	BLACK		COMPOSITE CAMERA CABLE PVC

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