



Product: [7804PX](#)

SMPTE 311M Cable, 2 Fiber, 2 Conductor 24 AWG, 4 Conductor 20 AWG, PVDF Jacket, I/O CMP

Product Description

Industry Standard SMPTE 311M Cable, 2 Single Mode Fibers, 2 TC Conductors 24 AWG (7x32) and 4 TC Conductors 20 AWG (19x32), PVC Insulation, TC Braid Shield (95% coverage), PVDF Jacket, Indoor/Outdoor CMP

Technical Specifications

Product Overview

Suitable Applications:	Indoor/Outdoor, Broadcast, Studios, SMPTE 311
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Multiconductor

Multiconductor Conductor and Insulation

Element	No. of Conductors	AWG	Stranding	Material	Nominal Conductor DCR	Insulation Material	Insulation Nominal Diameter
24 AWG	2	24	7x32	TC - Tinned Copper	23.3 Ohm/1000ft	FEP - Fluorinated Ethylene Propylene	0.038 in
20 AWG	4	20	19x32	TC - Tinned Copper	8.8 Ohm/1000ft	FEP - Fluorinated Ethylene Propylene	0.054 in

Multiconductor Color Chart

Description	Color
24 AWG	Red
24 AWG	Gray
20 AWG	White
20 AWG	White
20 AWG	Black
20 AWG	Black

Shielding:	Braid(s)
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Multiconductor UL Voltage

UL Description	UL Voltage Rating
24 AWG	300 V RMS
20 AWG	300 V RMS

Fiber

Fiber Cable Construction

Fiber Type	Fiber Count
OS2, G.657.A2	2

Fiber Color Coding:	Yellow, Blue
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Buffer Specification

Buffer Diameter
900 μm

Mode Field Diameter:	9.2 μm
Wavelength@Optical SM1:	1310nm, 1550 nm
Max. Attenuation at 1310 nm:	0.50 dB/km
Max. Attenuation at 1550 nm:	0.50 dB/km

Overall Cable

Outer Jacket

Nominal Diameter
0.249 in

Overall Shielding

Layer 1	Type	Material	Coverage
Overall	Braid	TC - Tinned Copper	80 %

Jacket:	PVDF
Operating Temperature Range:	-20°C to 75°C
Installation Temperature Range:	0°C to 75°C
Storage Temperature Range:	-20°C to 75°C
Max. Pull Tension:	1350 N
Bulk Cable Weight:	59 lbs/1000ft

Applicable Standards & Environmental Programs

NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes

Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flame Test

UL Flammability:	UL910 Steiner Tunnel
CSA/C(UL) Flammability:	FT6

History

Update and Revision:	Revision Number: 0.15 Revision Date: 02-27-2024
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Variants

Item #	Color	Length
7804PX 0101000	Black	1,000 ft
7804PX 0104000	Black	4,000 ft

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