

**Product:** [7804R](#) 

SMPTE 311M Cable, 2 Fiber, 2 Conductor 24 AWG, 4 Conductor 20 AWG, Belflex® Jacket, CMR

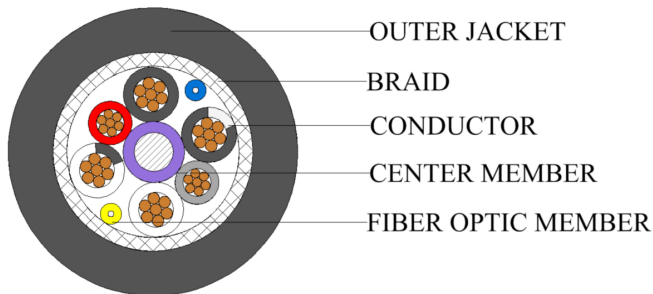


REPRESENTATIVE IMAGE

## 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), Belflex® Jacket, Riser

## Technical Drawing



- OUTER JACKET
- BRAID
- CONDUCTOR
- CENTER MEMBER
- FIBER OPTIC MEMBER

## Technical Specifications

### 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	PVC - Polyvinyl Chloride	0.050 in
20 AWG	4	20	19x32	TC - Tinned Copper	8.8 Ohm/1000ft	PVC - Polyvinyl Chloride	0.063 in

#### Multiconductor Color Chart

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

#### Multiconductor Cabling

Filler
FR Filler

Shielding:	Braid
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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 Material	Buffer Diameter
PVC - Polyvinyl Chloride	900 µm

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

## Overall Cable

### Outer Jacket

Material	Nominal Diameter	Separator Material
PVC - Polyvinyl Chloride	0.357 in	PVC - Polyvinyl Chloride

### Overall Shielding

Layer 1	Type	Material	Coverage
Overall	Braid	TC - Tinned Copper	0.95 %

Jacket:	PVC
Separator Material@OuterJacket1 1:	PVC - Polyvinyl Chloride
Operating Temperature Range:	-40°C to +70°C
Installation Temperature Range:	-10°C to +70°C
Storage Temperature Range:	-40°C to +70°C
Max. Pull Tension:	1350 N
Bulk Cable Weight:	80 lbs/1000ft

## Applicable Standards & Environmental Programs

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
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
CPR Euroclass:	Eca
Other Specification:	SMPTE 311

## Suitability

Suitability - Indoor:	Yes
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## Flame Test

UL Flammability:	UL1666 Vertical Shaft
CSA/C(UL) Flammability:	FT4

## Plenum/Non-Plenum

Plenum (Y/N):	N
Plenum Number:	7804P

## History

Update and Revision:	Revision Number: 0.331 Revision Date: 12-19-2022
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## Variants

Item #	Color	UPC	Length	Footnote
7804R B59CUT	Black, Matte	612825189503		
7804R B591000	Matte Black	612825378648	1,000 ft	C
7804R B591640	Matte Black	612825189480	1,640 ft	C

7804R B593280	Matte Black	612825189497	3,280 ft	C
7804R B59500	Matte Black	612825378655	500 ft	C

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