



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 (80% coverage), Flammarrest® jacket.

### Usage (Overall)

**Suitable Applications:** Camera Cable compliant with SMPTE 311M

### 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
FEP	1.372	20
FEP	0.965	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:** Single Mode/125/900 Micron

**Number of Fibers:** 2

**Mode Field Diameter @ 1310nm:** 9.5 +/-1 microns

<b>Clad Diameter:</b>	125 microns
<b>Core-clad Concentricity Error:</b>	< to 1 micron
<b>Primary Coating Material:</b>	Acrylate
<b>Buffer Tube Diameter:</b>	900 microns
<b>Buffer Tube Material:</b>	PVC - Polyvinyl Chloride

**Buffer Tube Color Code Chart:**

Number	Color
1	Blue
2	Yellow

**Optical Characteristics**

<b>Maximum Attenuation @ 1310nm:</b>	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	80.000

**Outer Jacket**

**Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	PVC

**Strength Member**

<b>Overall Strength Member Diameter:</b>	.079
<b>Strength Member Material:</b>	302 Stainless Steel

**Overall Cable**

<b>Overall Nominal Diameter:</b>	6.579 mm
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**Mechanical Characteristics (Overall)**

<b>Operating Temperature Range:</b>	-20°C To +75°C
<b>Bulk Cable Weight:</b>	92.268 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	2001.690 N
<b>Min. Bend Radius/Minor Axis:</b>	63.500 mm
<b>Flex Cycle Rating:</b>	UL1581, Sec. 1582: 15,000 Cycles @ 3.6
<b>Crush Resistance:</b>	Compression, FOTP-41: 397 lbs.
<b>Impact Resistance:</b>	FOTP-25: 20 Cycles @ 1.32 lbs.

**Applicable Specifications and Agency Compliance (Overall)**

**Applicable Standards & Environmental Programs**

<b>NEC/(UL) Specification:</b>	CMP
<b>CEC/C(UL) Specification:</b>	CMP
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	09/23/2011
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes

## 7804P Composite - SMPTE 311M HDTV Cable

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Other Specification: SMPTE 311

### Flame Test

UL Flame Test: UL910 Steiner Tunnel

CSA Flame Test: FT6

### Suitability

Suitability - Indoor: Yes

Suggested Connectors: SMPTE 304M Connectors

### Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 7804C, 7804R

### Electrical Characteristics (Overall)

**Other Electrical Characteristic 1:** Auxillary Conductors: DC Loop Resistance - 30 Ohms/km nom. (9.1 Ohms/1000ft.) 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 0043280	3,280 FT	203.360 LB	YELLOW		COMPOSITE CAMERA CABLE PVC
7804P 010CUT	1 FT	0.065 LB	BLACK		COMPOSITE CAMERA CABLE PVC
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
7804P 0105000	5,000 FT	325.000 LB	BLACK		COMPOSITE CAMERA CABLE PVC

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