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1-800-Belden1



### General Description:

2 power conductors, SM fiber w/24 AWG and 16 AWG stranded (7x32 and 65x34) TC conductors, PVC insulation, TC braid shield (95% coverage), Belflex® jacket.

### Usage (Overall)

Suitable Applications: SMPTE 311M HDTV Cable

### Multi Conductor

#### Physical Characteristics

##### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
2	16	65x34	TC - Tinned Copper	0.059
2	24	7x32	TC - Tinned Copper	0.024

##### Insulation

Insulation Material:

Insulation Material	Dia. (in.)	AWG
PVC - Polyvinyl Chloride	0.050	24
PVC - Polyvinyl Chloride	0.093	16

Insulation Color Code Chart:

Number	Color	Description
1	Red	24 AWG
2	Gray	24 AWG
3	Black	16 AWG
4	White	16 AWG

#### Electrical Characteristics

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
24 AWG	23.300
16 AWG	4.300

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.800

### Fiber

#### Physical Characteristics

Number of Fibers:	2
Mode Field Diameter @ 1310nm:	9.5 microns
Clad Diameter:	125 microns
Breakout Element Diameter:	.079 in.
Core-clad Concentricity Error:	< To 1 Micron
Primary Coating Material:	Acrylate
Buffer Tube Diameter:	900 microns
Breakout Element Material:	PVC - Polyvinyl Chloride
Buffer Tube Material:	PVC - Polyvinyl Chloride

Buffer Tube Color Code Chart:

Number	Color
1	Blue
2	Yellow

#### Strength Member

Strength Member Material: Aramid Yarn

### Optical Characteristics

Maximum Attenuation @ 1310nm: 0.8 dB/km

### Physical Characteristics (Overall)

#### Conductor

#### 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
Belflex®	PVC Blend - Polyvinyl Chloride Blend

#### Strength Member

Overall Strength Member Diameter: .070

Strength Member Material: 302 Stainless Steel

Strength Member Insulation Material: PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.362 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +60°C

Bulk Cable Weight: 81.300 lbs/1000 ft.

Max. Recommended Pulling Tension: 450 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

Flex Cycle Rating: UL 1581, 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 Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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): 07/01/2005

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: UL1666 Vertical Shaft

CSA Flame Test: FT4

IEEE Flame Test: 1202

#### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suggested Connectors: SMPTE 304M Connectors

#### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

## 7804C Composite - SMPTE 311M HDTV Cable

**Other Electrical Characteristic 1:**

Auxiliary Conductors: DC Loop Resistance - 27.9 Ohms/km nom. (8.5 Ohms/1000 ft.) Min. Insulation Resistance - 10,000 Megaohms x km Dielectric Strength - 1750 V RMS to shield. Signal Conductors: DC Loop Resistance - 150 Ohms/km nom. (45.7 Ohms/1000 ft.) Insulation Resistance - 10,000 Megaohms x km Dielectric Strength - 1750 V RMS min. to shield

### Notes (Overall)

**Notes:** Plenum version and other conductor counts/diameters available by special order.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7804C B591000	1,000 FT	99.000 LB	BLACK, MATTE	C	COMPOSITE CAMERA CABLE
7804C B591640	1,640 FT	157.440 LB	BLACK, MATTE	C	COMPOSITE CAMERA CABLE
7804C B593280	3,280 FT	324.720 LB	BLACK, MATTE	C	COMPOSITE CAMERA CABLE

**Notes:**

C = CRATE REEL PUT-UP.

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