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## 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. (mm)
2	16	65x34	TC - Tinned Copper	1.499
2	24	7x32	TC - Tinned Copper	0.610

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)	AWG
PVC - Polyvinyl Chloride	1.270	24
PVC - Polyvinyl Chloride	2.362	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/km)
24 AWG	76.447
16 AWG	14.108

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
9.187

## 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

## 7804C Composite - SMPTE 311M HDTV Cable

**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:** 9.195 mm

### Mechanical Characteristics (Overall)

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

**Bulk Cable Weight:** 120.991 Kg/Km

**Max. Recommended Pulling Tension:** 2001.690 N

**Min. Bend Radius/Minor Axis:** 63.500 mm

**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

## 7804C Composite - SMPTE 311M HDTV Cable

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
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### Electrical Characteristics (Overall)

Other Electrical Characteristic 1:	Auxillary 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
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### 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 B59CUT	1 FT	0.097 LB	BLACK, MATTE		COMPOSITE CAMERA CABLE
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 B592500	2,500 FT	235.000 LB	BLACK, MATTE		COMPOSITE CAMERA CABLE
7804C B593280	3,280 FT	324.720 LB	BLACK, MATTE	C	COMPOSITE CAMERA CABLE

**Notes:**  
C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 03-27-2015

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