

7804C Composite - SMPTE 311M HDTV Cable



For more Information
please call

1-800-Belden1

**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 |

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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: 45 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 (Install)/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 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

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Other Specification: SMPTE 311M

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)

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

Notes (Overall)

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

Related Documents:

No related documents are available for this product

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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