

7804R Composite - SMPTE 311M HDTV Cable

For more Information please call

1-800-Belden1



Description:

4 power conductors, SM fibers w/24 and 20 AWG stranded (7x32 and 19x32) TC conductors, PVC insulation, TC braid shield (95% coverage), Belflex® jacket.

Usage (Overall)

Suitable Applications:

SMPTE 311M Camera Cable

Multi Conductor

Physical Characteristics

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------------|-----|-----------|--------------------|------------|
| 2 | 24 | 7x32 | TC - Tinned Copper | 0.024 |
| 4 | 20 | 19x32 | TC - Tinned Copper | 0.037 |

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) | AWG |
|--------------------------|------------|-----|
| PVC - Polyvinyl Chloride | 0.063 | 20 |
| PVC - Polyvinyl Chloride | 0.050 | 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 |

Electrical Characteristics

Nom. Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/1000 ft) |
|-------------|--------------------------|
| 24 AWG | 23.300 |
| 20 AWG | 8.800 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C | (Ohm/1000 ft) |
|------------|---------------|
| 3.500 | |

Fiber

Physical Characteristics

| Fiber Type: | Non-Dispersion Shifted, Single Mode/125/900 Micron |
|--------------------------------|--|
| Number of Fibers: | 2 |
| Mode Field Diameter @ 1310nm: | 9.5 +/-1 microns |
| Clad Diameter: | 125 microns |
| Core-clad Concentricity Error: | < to 1 micron |
| Primary Coating Material: | Acrylate: |

Detailed Specifications & Technical Data





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Buffer Tube Diameter: 900 microns

Buffer Tube Material: PVC - Polyvinyl Chloride

Buffer Tube Color Code Chart:



Optical Characteristics

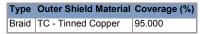
Maximum Attenuation @ 1310nm: .45 dB/km

Physical Characteristics (Overall)

Conductor

Outer Shield

Outer Shield Material:



Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material |
|-------------------------|--------------------------------------|
| Belflex® | PVC Blend - Polyvinyl Chloride Blend |

Strength Member

Overall Strength Member Diameter: .089

Strength Member Material: 302 Stainless Steel

Overall Cable

Overall Nominal Diameter: 0.362 in.

Mechanical Characteristics (Overall)

| Operating Temperature Range: | -40°C To +75°C |
|--|--|
| Bulk Cable Weight: | 80 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 450 lbs. |
| Min. Bend Radius (Install)/Minor Axis: | 2.500 in. |
| Flex Cycle Rating: | UL1581, 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 |
| Other Specification: | SMPTE 311M |

Flame Test

UL Flame Test: UL1666 Vertical Shaft



Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



7804R Composite - SMPTE 311M HDTV Cable

| 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 |

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. 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 |
|---------------|----------|-------------|--------------|-------|------------------------|
| 7804R B591000 | 1,000 FT | 96.000 LB | BLACK, MATTE | С | COMPOSITE CAMERA CABLE |
| 7804R B591640 | 1,640 FT | 152.520 LB | BLACK, MATTE | С | COMPOSITE CAMERA CABLE |
| 7804R B593280 | 3,280 FT | 314.880 LB | BLACK, MATTE | С | COMPOSITE CAMERA CABLE |
| 7804R B59500 | 500 FT | 47.500 LB | BLACK, MATTE | С | COMPOSITE CAMERA CABLE |

Notes:

C = CRATE REEL PUT-UP.

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