



REPRESENTATIVE IMAGE

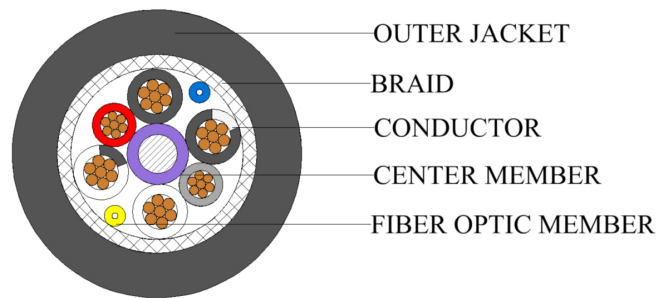
Product: [7804R](#)

SMPTE 311M Cable, 2 Fiber, 2 Conductor 24 AWG, 4 Conductor 20 AWG, Belflex® Jacket, CMR

Product Description

Industry Standard SMPTE 311M Cable, 2 Single Mode Fibers, 2 TC Conductors 24 AWG (7x32) and 4 TC Conductors 20 AWG (19x32), PVC Insulation, TC Braid Shield (95% coverage), Belflex® Jacket, Riser

Technical Drawing



Technical Specifications

Multiconductor

Multiconductor Conductor and Insulation

| Element | No. of Conductors | AWG | Stranding | Material           | Nominal Conductor DCR | Insulation Material      | Insulation Nominal Diameter |
|---------|-------------------|-----|-----------|--------------------|-----------------------|--------------------------|-----------------------------|
| 24 AWG  | 2                 | 24  | 7x32      | TC - Tinned Copper | 23.3 Ohm/1000ft       | PVC - Polyvinyl Chloride | 0.050 in                    |
| 20 AWG  | 4                 | 20  | 19x32     | TC - Tinned Copper | 8.8 Ohm/1000ft        | PVC - Polyvinyl Chloride | 0.063 in                    |

Multiconductor Color Chart

| Description | Color       |
|-------------|-------------|
| 24 AWG      | Red         |
| 24 AWG      | Gray        |
| 20 AWG      | White       |
| 20 AWG      | Black       |
| 20 AWG      | White/Black |
| 20 AWG      | Black/White |

Multiconductor Cabling

|           |
|-----------|
| Filler    |
| FR Filler |

|            |       |
|------------|-------|
| Shielding: | Braid |
|------------|-------|

Multiconductor UL Voltage

| UL Description | UL Voltage Rating |
|----------------|-------------------|
| 24 AWG         | 300 V RMS         |
| 20 AWG         | 300 V RMS         |

Fiber

Fiber Cable Construction

| Fiber Type    | Fiber Count |
|---------------|-------------|
| OS2, G.657.A2 | 2           |

|                     |              |
|---------------------|--------------|
| Fiber Color Coding: | Yellow, Blue |
|---------------------|--------------|

Buffer Specification

| Buffer Material          | Buffer Diameter |
|--------------------------|-----------------|
| PVC - Polyvinyl Chloride | 900 µm          |

|                              |                  |
|------------------------------|------------------|
| Mode Field Diameter:         | 9.2 µm           |
| Wavelength@Optical SM1:      | 1310 nm, 1550 nm |
| Max. Attenuation at 1310 nm: | 0.50 dB/km       |
| Max. Attenuation at 1550 nm: | 0.50 dB/km       |

Overall Cable

Outer Jacket

| Material                 | Nominal Diameter | Separator Material       |
|--------------------------|------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.357 in         | PVC - Polyvinyl Chloride |

Overall Shielding

| Layer 1 | Type  | Material           | Coverage |
|---------|-------|--------------------|----------|
| Overall | Braid | TC - Tinned Copper | 0.95 %   |

|                                    |                          |
|------------------------------------|--------------------------|
| Jacket:                            | PVC                      |
| Separator Material@OuterJacket1 1: | PVC - Polyvinyl Chloride |
| Operating Temperature Range:       | -40°C to +70°C           |
| Installation Temperature Range:    | -10°C to +70°C           |
| Storage Temperature Range:         | -40°C to +70°C           |
| Max. Pull Tension:                 | 1350 N                   |
| Bulk Cable Weight:                 | 80 lbs/1000ft            |

Applicable Standards & Environmental Programs

|                                              |     |
|----------------------------------------------|-----|
| NEC/(UL) Compliance:                         | CMR |
| CEC/C(UL) Compliance:                        | CMG |
| EU Directive 2011/65/EU (RoHS 2):            | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive 2000/53/EC (ELV):               | Yes |
| EU Directive 2012/19/EU (WEEE):              | Yes |
| EU Directive 2003/11/EC (BFR):               | Yes |
| CPR Euroclass:                               | Eca |

Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flame Test

|                         |                       |
|-------------------------|-----------------------|
| UL Flammability:        | UL1666 Vertical Shaft |
| CSA/C(UL) Flammability: | FT4                   |

Plenum/Non-Plenum

|                |       |
|----------------|-------|
| Plenum (Y/N):  | N     |
| Plenum Number: | 7804P |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.332 Revision Date: 11-27-2023 |
|----------------------|--------------------------------------------------|

Variants

| Item #        | Color        | UPC          | Length   | Footnote |
|---------------|--------------|--------------|----------|----------|
| 7804R B59CUT  | Black, Matte | 612825189503 |          |          |
| 7804R B591000 | Matte Black  | 612825378648 | 1,000 ft | C        |
| 7804R B591640 | Matte Black  | 612825189480 | 1,640 ft | C        |
| 7804R B593280 | Matte Black  | 612825189497 | 3,280 ft | C        |

|              |             |              |        |   |
|--------------|-------------|--------------|--------|---|
| 7804R B59500 | Matte Black | 612825378655 | 500 ft | C |
|--------------|-------------|--------------|--------|---|

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.