

SMPTTE 311M Hybrid Cables and Assemblies

PRODUCT BULLETIN 

Belden's SMPTE 311M and 304M Cables and Assemblies are designed for the toughest indoor and outdoor broadcast environments, offering best-in-performance clarity and durability when interconnecting camera units and base stations. Provide power and control to remote and local cameras while creating video and audio outputs in temporary or permanent installations.

Key Features

- SMPTE 311M and 304M compliant
- Machine-polished fiber contacts and soldered copper connections
- Pre-terminated with industry-leading SMPTE connectors
- 19.4 Mb/s to 3 Gb/s transport speeds
- 10-year warranty for bulk cable; one-year warranty for assemblies
- Standard, breakout and pigtail assemblies available



Benefits at a Glance

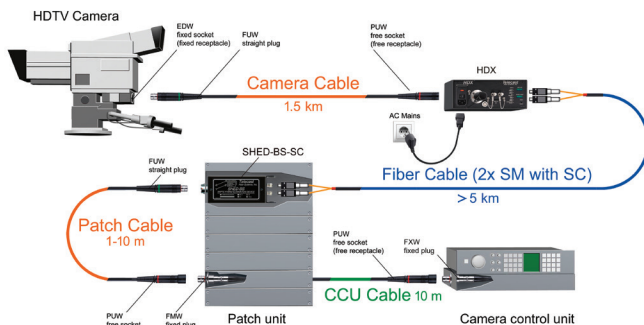
- Combine power and control with one cable
- Experience better performance with low insertion and return loss
- Resist wear and damage in outside environments
- Support high-speed, uncompressed HD video transmission
- Durable, resilient designs for long life

Key Applications

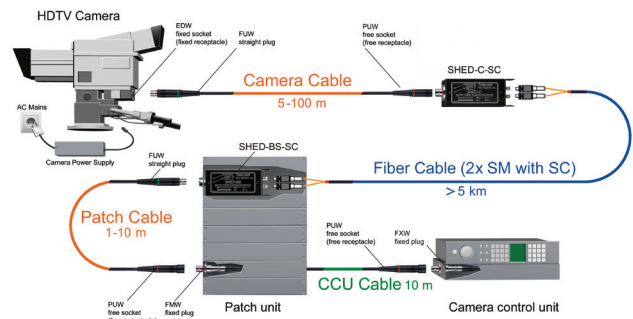
- Professional AV
- Broadcast cameras
- Broadcast trucks

Typical Install Configurations

Remotely Powered Camera



Locally Powered Camera



Belden SMPTE 311M Hybrid Cables

| Description | Belden Part Number | UL NEC/ C(UL) CEC Type | Standard Lengths | | Standard Unit Weight | | Nominal OD | |
|---|--------------------|------------------------------|------------------|------|----------------------|-----|------------|-------|
| | | | ft | m | lbs | kg | in | mm |
| Light-Duty Studio Cable | | | | | | | | |
| 2 SM Fiber • 4 Power Conductors, 24 and 20 AWG • Stranded (7x32 and 19x32) TC • Stainless Steel Strength Member • Overall 85% Tinned Copper Braid | | | | | | | | |
| Polyolefin Insulation • PVC Buffer Tube • Black Belflex® Jacket | | | | | | | | |
| Light Duty Studio Cable | 7804LW | | 1000 | 305 | 73 | 33 | 0.357 | 9.07 |
| 12 mm Double Jacket Studio Cable | | | | | | | | |
| 2 SM Fiber • 4 Power Conductors, 24 and 20 AWG • Stranded (7x32 and 19x32) TC • Stainless Steel Strength Member • Overall 85% Tinned Copper Braid | | | | | | | | |
| Polyolefin Insulation • PVC Buffer Tube • Black Belflex® Jacket | | | | | | | | |
| 12mm Double Jacket Studio Cable | 7817A | | 1000 | 305 | 119 | 54 | 0.472 | 11.99 |
| Outdoor Harsh Environment Cable | | | | | | | | |
| 2 SM Fiber • 4 Power Conductors, 24 and 20 AWG • Stranded (7x32 and 19x32) TC • Stainless Steel Strength Member • Overall 85% Tinned Copper Braid | | | | | | | | |
| Polyolefin Insulation • PVC Buffer Tube • Black Polyurethane Jacket | | | | | | | | |
| Outdoor Harsh Environment Cable | 7818A | | 1000 | 305 | 77 | 35 | 0.357 | 9.07 |
| Industry-Standard Cable | | | | | | | | |
| 2 SM Fiber • 4 Power Conductors 24 and 20 AWG • Stranded (7x32 and 19x32) TC • Stainless Steel Strength Member • Overall 95% Tinned Copper Braid | | | | | | | | |
| PVC Insulation • PVC Buffer Tube • Black Belflex® Jacket | | | | | | | | |
| Standard Cable | 7804R | NEC: CMR | 500 | 152 | 48 | 22 | 0.362 | 9.19 |
| | | CEC: CMG | 1000 | 305 | 96 | 44 | | |
| | | | 1640 | 500 | 153 | 69 | | |
| | | | 3280 | 1000 | 315 | 143 | | |
| FEP Insulation • PVC Buffer Tube • Black Flamarrest® Jacket | | | | | | | | |
| Standard Cable | 7804P | NEC: CMP | 500 | 152 | 33 | 15 | 0.259 | 6.58 |
| | | CEC: CMP | 1000 | 305 | 63 | 29 | | |
| | | | 1640 | 500 | 102 | 46 | | |
| | | | 3280 | 1000 | 203 | 92 | | |
| PVC Insulation • PVC Buffer Tube • Black CPE Jacket | | | | | | | | |
| Waterblocked Standard Cable | 2804RW | NEC: CMR | 1000 | 305 | 97 | 44 | 0.363 | 9.22 |
| | | CEC: CMR | 3280 | 1000 | | | | |
| | | | 6930 | 2112 | | | | |
| PVC Insulation • PVC Buffer Tube • Black Polyethylene Jacket | | | | | | | | |
| Waterblocked Standard Cable | 7804WB | | 1000 | 305 | 85 | 39 | 0.362 | 9.20 |
| Heavy-Gauge Standard Cable | | | | | | | | |
| 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • Stranded (7x32 and 65x34) TC • Aramid Yarn Strength Material • Overall 95% Tinned Copper Braid | | | | | | | | |
| PVC Insulation • PVC Buffer Tube • Black Belflex® Jacket | | | | | | | | |
| Original Standard Cable | 7804C | NEC: CMR | 1000 | 305 | 99 | 45 | 0.362 | 9.20 |
| | | CEC: CMG | 1640 | 500 | 157 | 71 | | |
| | | | 3280 | 1000 | 325 | 147 | | |

Belden SMPTE 311M Hybrid Cables

| Description | Belden Part Number | UL NEC/ C(UL) CEC Type | Standard Lengths | | Standard Unit Weight | | Nominal OD | |
|--|--------------------|------------------------------|------------------|------|----------------------|-------|------------|-------|
| | | | ft. | m | lbs. | kg | inch | mm |
| 3-Channel Stadium Cable | | | | | | | | |
| 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • Stranded (7x32 and 19x32) TC • Aramid Yarn Strength Material | | | | | | | | |
| PVC Insulation • PVC Buffer Tube • Green PVC Jacket | | | | | | | | |
| 3-Channel Stadium Cable | 7824R | NEC: CMR | 1000 | 305 | 161 | 73.0 | 0.525 | 13.34 |
| | | CEC: CMR | | | | | | |
| FEP Insulation • PVC Buffer Tube • Green PVDF Jacket | | | | | | | | |
| 3-Channel Stadium Cable | 7834P | NEC: CMP | 1000 | 305 | 170 | 77.1 | 0.424 | 10.77 |
| | | CEC: CMP | | | | | | |
| PVC Insulation • PVC Buffer Tube • Green CPE Jacket | | | | | | | | |
| Waterblocked 3-Channel Stadium Cable | 2824RW | NEC: CMR | 1000 | 305 | 142 | 64 | 0.555 | 14.1 |
| | | CEC: CMR | 5000 | 1524 | | | | |
| PVC Insulation • PVC Buffer Tube • Black Polyethylene Jacket | | | | | | | | |
| Waterblocked 3-Channel Stadium Cable | 7824WB | 1000 | 305 | 140 | 63.5 | 0.540 | 13.71 | 10.77 |
| Electrical Camera Breakout Cable | | | | | | | | |
| 4 Power Conductors, 22 and 16 AWG • Stranded (7x30 and 19x29) TC • Aramid Yarn Strength Material • Overall 95% Tinned Copper Braid | | | | | | | | |
| PVC Insulation • Black PVC Jacket | | | | | | | | |
| Electrical Camera Breakout Cable | 7825R* | NEC: CMR | 1000 | 305 | 50 | 22.7 | 0.250 | 6.35 |
| | | CEC: CMG | | | | | | |
| Flamarrest® Insulation • Black Flamarrest® Jacket | | | | | | | | |
| Electrical Camera Breakout Cable | 7825P* | NEC: CMP | 1000 | 305 | 47 | 21.3 | 0.212 | 6.35 |
| | | CEC: CMP | | | | | | |

*Available in bulk cable only.

