

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

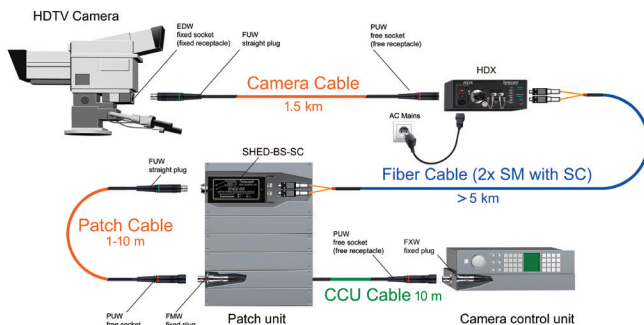
- Combine power and control with one cable
- Experience better performance with low insertion and return loss
- Resist wear and damage in outside environments
- Support high-speed, uncompressed HD video transmission
- Durable, resilient designs for long life

Key Applications

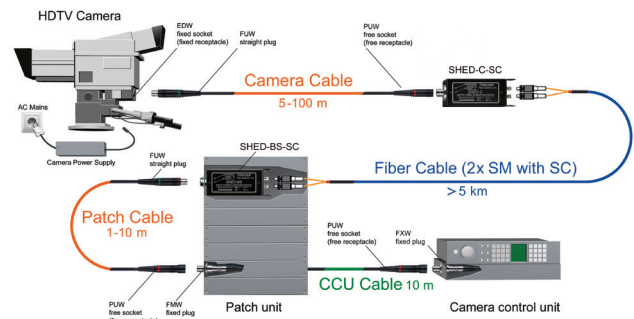
- Professional AV
- Broadcast cameras
- Broadcast trucks

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
4-Channel Stadium Cable								
8 SM Fiber • 8 Power Conductors, 24 and 18 AWG • Stranded (7x32 and 19x30) TC • Aramid Yarn Strength Material								
PVC Insulation • PVC Buffer Tube • Black PVC Jacket								
4-Channel Studio/Stadium Cable	7844R	NEC: CMR	1000	305	187	85	0.573	14.55
		CEC: CMR	4000	1219	748	339		
PVC Insulation • PVC Buffer Tube • Black PVDF Jacket								
4-Channel Studio/Stadium Cable	7844P	NEC: CMP	1000	305	193	88	0.477	12.12
		CEC: CMP	4000	1219	772	350		
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.



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