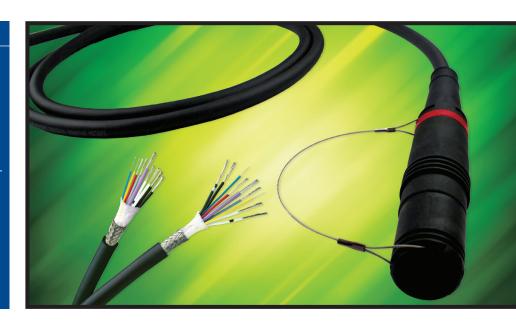


Product Bulletin

PB 146

SMPTE 311M Hybrid Cable & Assemblies

Offering both finished assemblies and bulk cable, Belden offers a broad range of SMPTE 311M products for temporary or permanent installations.



Key Features

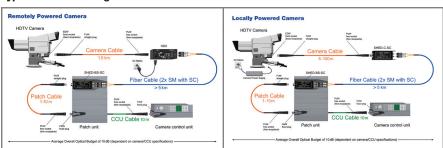
- · SMPTE 311M and 304M compliant
- Amphenol, King's & LEMO connectors available
- Ten year product warranty on bulk cable
- One year product warranty on assemblies
- · Rubber dust caps and full-length strain relief
- 19.4 Mbps to 3 Gbps transport
- · Low insertion and return loss
- Standard, breakout & pigtail assemblies available
- All assemblies accompanied by test report verifying performance
- · Precision terminated by certified technicians

Belden SMPTE 311M cable assemblies feature machine-polished fiber contacts and soldered copper connections for superior performance. To ensure consistency and reliability in the most demanding applications, all copper connections are tested for continuity and all fiber contacts are optically tested and return losses verified. Belden SMPTE 311M assemblies are pre-terminated with SMPTE connectors from industry-leading manufacturers such as Amphenol, King's and LEMO. All connectors are installed with full-length rubber strain relief which helps prevent damage during the rigors of Outside Broadcasting (OB). These processes and features enable the low attenuation and return loss required for high-speed uncompressed HD video transmission and ensure Belden SMPTE assemblies will consistently and reliably perform in the field.

For industry leading durability, resilience and long life in harsh environments, insist on Belden SMPTE 311M cables and OEM-approved terminations. All Belden broadcast assemblies are guaranteed to be free of material or workmanship defects and backed with a one year product warranty. In addition to custom assemblies, Belden also offers assembly repair services and will repair any fiber assemblies regardless of the manufacturer.

To configure a custom SMPTE assembly, visit http://info.belden.com/assembly-configurators.

Typical Install Configurations



Be certain.



Belden SMPTE 311M Hybrid Cables

Description	Doub Nameh	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Nominal OD	
	Part Number		ft.	m	lbs.	kg	inch	mm
Light Duty Studio Cable 2 SM Fiber • 4 Power Conductors, 24 and 20 AWG •	Strandad (7v22 and	1 10v32) TC • Sta	inlace Staal Stranc	th Mamhar • Ova	rall 85% Tinned C	nnner Braid		
Polyolefin Insulation • PVC Buffer Tube • Black	,	1 19x32) 10 • 3ta	illiess steel strellt	ur Member • Ove	all 65 % Tillileu G	opper braid		
Light Duty Studio Cable	7804LW		1000	305	73	33	0.357	9.07
Light Duty Studio Cable	700420		1000	303	73	33	0.557	3.01
12 mm Double Jacket Studio Cable 2 SM Fiber • 4 Power Conductors, 24 and 20 AWG •	Stranded (7x32 and	d 19x32) TC • Sta	inless Steel Strend	th Member • Ove	rall 85% Tinned C	opper 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 • Polyolefin Insulation • PVC Buffer Tube • Black	,	,	inless Steel Streng	th Member • Ove	rall 85% Tinned C	opper Braid		
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 •	Strandad (7v32 and	10v32) TC • Stai	nlace Staal Strang	th Mamhar • Over	all 05% Tinned Co	nner Braid		
PVC Insulation • PVC Buffer Tube • Black Belfle		15/02/10 - Olai	nicos oteer offerig	an Monibol - Ovel	un 5570 mineti 60	ppor braid		
Standard Cable	7804R	NEC: CMR	500	152	48	22	0.362	9.19
Sandard Sabib		CEC: CMG	1000	305	96	44		
			1640	500	153	69		
			3280	1000	315	143		
FEP Insulation • PVC Buffer Tube • Black Flama	rrest® 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 Polye								
Waterblocked Standard Cable	7804WB		1000	305	85	39	0.362	9.20
Waterblocked Standard Subje								
Heavy Gauge Standard Cable	Stranded (7x32 and	d 65x34) TC • Ara	mid Yarn Strength	Material • Overall	95% Tinned Conr	ner Braid		
Heavy Gauge Standard Cable 2 SM Fiber ● 2 Power Conductors, 24 and 16 AWG ●	,	d 65x34) TC • Ara	mid Yarn Strength	Material ● Overall	95% Tinned Copp	oer Braid		
Heavy Gauge Standard Cable 2 SM Fiber ● 2 Power Conductors, 24 and 16 AWG ● PVC Insulation ● PVC Buffer Tube ● Black Belfle	,	,	Ü		,,		0.362	9.20
Heavy Gauge Standard Cable 2 SM Fiber ● 2 Power Conductors, 24 and 16 AWG ●	x [®] Jacket	NEC: CMR	1000	305	99	45	0.362	9.20
Heavy Gauge Standard Cable 2 SM Fiber ● 2 Power Conductors, 24 and 16 AWG ● PVC Insulation ● PVC Buffer Tube ● Black Belfle	x [®] Jacket	,	Ü		,,		0.362	9.20
Heavy Gauge Standard Cable 2 SM Fiber ● 2 Power Conductors, 24 and 16 AWG ● PVC Insulation ● PVC Buffer Tube ● Black Belfle	x [®] Jacket	NEC: CMR	1000 1640	305 500	99 157	45 71	0.362	9.20
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable	x® Jacket 7804C	NEC: CMR CEC: CMG	1000 1640 3280	305 500 1000	99 157 325	45 71 147	0.362	9.20
Heavy Gauge Standard Cable 2 SM Fiber ● 2 Power Conductors, 24 and 16 AWG ● PVC Insulation ● PVC Buffer Tube ● Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber ● 6 Power Conductors, 24 and 18 AWG ●	x® Jacket 7804C • Stranded (7x32 and	NEC: CMR CEC: CMG	1000 1640 3280	305 500 1000	99 157 325	45 71 147	0.362	9.20
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC J	x® Jacket 7804C • Stranded (7x32 and lacket	NEC: CMR CEC: CMG	1000 1640 3280 mid Yarn Strength	305 500 1000 Material • Overall	99 157 325 84% Tinned Copp	45 71 147 per Braid		
Heavy Gauge Standard Cable 2 SM Fiber ● 2 Power Conductors, 24 and 16 AWG ● PVC Insulation ● PVC Buffer Tube ● Black Belfle	x® Jacket 7804C • Stranded (7x32 and	NEC: CMR CEC: CMG	1000 1640 3280	305 500 1000	99 157 325	45 71 147	0.362	
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC J 3-Channel Stadium Cable	x® Jacket 7804C Stranded (7x32 and lacket 7824R	NEC: CMR CEC: CMG	1000 1640 3280 mid Yarn Strength	305 500 1000 Material • Overall	99 157 325 84% Tinned Copp	45 71 147 per Braid		
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC J 3-Channel Stadium Cable FEP Insulation • PVC Buffer Tube • Green PVDF	x® Jacket 7804C Stranded (7x32 and lacket 7824R	NEC: CMR CEC: CMG	1000 1640 3280 mid Yarn Strength	305 500 1000 Material • Overall	99 157 325 84% Tinned Copp	45 71 147 per Braid		13.3
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC Ja-Channel Stadium Cable FEP Insulation • PVC Buffer Tube • Green PVDF 3-Channel Stadium Cable	x® Jacket 7804C Stranded (7x32 and lacket 7824R Jacket 7824P	NEC: CMR CEC: CMG d 19x32) TC • Ara NEC: CMR CEC: CMR	1000 1640 3280 mid Yarn Strength 1000	305 500 1000 Material • Overall 305	99 157 325 84% Tinned Copp 161	45 71 147 per Braid 73.0	0.525	13.3
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC 3 3-Channel Stadium Cable FEP Insulation • PVC Buffer Tube • Green PVDF 3-Channel Stadium Cable PVC Insulation • PVC Buffer Tube • Black Polyee	x® Jacket 7804C Stranded (7x32 and lacket 7824R Jacket 7824P thylene Jacket	NEC: CMR CEC: CMG d 19x32) TC • Ara NEC: CMR CEC: CMR	1000 1640 3280 mid Yarn Strength 1000	305 500 1000 Material • Overall 305	99 157 325 84% Tinned Copp 161	45 71 147 per Braid 73.0	0.525 0.553	13.3
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC J 3-Channel Stadium Cable FEP Insulation • PVC Buffer Tube • Green PVDF 3-Channel Stadium Cable	x® Jacket 7804C Stranded (7x32 and lacket 7824R Jacket 7824P	NEC: CMR CEC: CMG d 19x32) TC • Ara NEC: CMR CEC: CMR	1000 1640 3280 mid Yarn Strength 1000	305 500 1000 Material • Overall 305	99 157 325 84% Tinned Copp 161	45 71 147 per Braid 73.0	0.525	13.3
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC J 3-Channel Stadium Cable FEP Insulation • PVC Buffer Tube • Green PVDF 3-Channel Stadium Cable PVC Insulation • PVC Buffer Tube • Black Polye Waterblocked 3-Channel Stadium Cable Electrical Camera Breakout Cable	x® Jacket 7804C Stranded (7x32 and lacket 7824R Jacket 7824P thylene Jacket 7824WB	NEC: CMR CEC: CMG d 19x32) TC • Ara NEC: CMR CEC: CMR NEC: CMP CEC: CMP	1000 1640 3280 mid Yarn Strength 1000 1000	305 500 1000 Material • Overall 305 305	99 157 325 84% Tinned Copp 161 193	45 71 147 per Braid 73.0	0.525 0.553	13.3
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC J 3-Channel Stadium Cable FEP Insulation • PVC Buffer Tube • Green PVDF 3-Channel Stadium Cable PVC Insulation • PVC Buffer Tube • Black Polye Waterblocked 3-Channel Stadium Cable Electrical Camera Breakout Cable 4 Power Conductors, 22 and 16 AWG • Stranded (7x	x® Jacket 7804C Stranded (7x32 and lacket 7824R Jacket 7824P thylene Jacket 7824WB	NEC: CMR CEC: CMG d 19x32) TC • Ara NEC: CMR CEC: CMR NEC: CMP CEC: CMP	1000 1640 3280 mid Yarn Strength 1000 1000	305 500 1000 Material • Overall 305 305	99 157 325 84% Tinned Copp 161 193	45 71 147 per Braid 73.0	0.525 0.553	13.3
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC J 3-Channel Stadium Cable FEP Insulation • PVC Buffer Tube • Green PVDF 3-Channel Stadium Cable PVC Insulation • PVC Buffer Tube • Black Polye Waterblocked 3-Channel Stadium Cable Electrical Camera Breakout Cable 4 Power Conductors, 22 and 16 AWG • Stranded (7x PVC Insulation • Black PVC Jacket	x® Jacket 7804C Stranded (7x32 and lacket 7824R Jacket 7824P thylene Jacket 7824WB	NEC: CMR CEC: CMG d 19x32) TC • Ara NEC: CMR CEC: CMR NEC: CMP CEC: CMP	1000 1640 3280 mid Yarn Strength 1000 1000	305 500 1000 Material • Overall 305 305	99 157 325 84% Tinned Copp 161 193	45 71 147 per Braid 73.0	0.525 0.553	13.3· 14.0· 13.7
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC J 3-Channel Stadium Cable FEP Insulation • PVC Buffer Tube • Green PVDF 3-Channel Stadium Cable PVC Insulation • PVC Buffer Tube • Black Polye Waterblocked 3-Channel Stadium Cable Electrical Camera Breakout Cable 4 Power Conductors, 22 and 16 AWG • Stranded (7x PVC Insulation • Black PVC Jacket	x® Jacket 7804C Stranded (7x32 and lacket 7824R Jacket 7824P thylene Jacket 7824WB 30 and 19x29) TC •	NEC: CMR CEC: CMG d 19x32) TC ◆ Ara NEC: CMR CEC: CMR NEC: CMP CEC: CMP	1000 1640 3280 mid Yarn Strength 1000 1000	305 500 1000 Material • Overall 305 305 305	99 157 325 84% Tinned Copp 161 193 140 Copper Braid	45 71 147 per Braid 73.0 87.5	0.525 0.553 0.540	13.3· 14.0· 13.7
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC J 3-Channel Stadium Cable FEP Insulation • PVC Buffer Tube • Green PVDF 3-Channel Stadium Cable PVC Insulation • PVC Buffer Tube • Black Polye Waterblocked 3-Channel Stadium Cable Electrical Camera Breakout Cable	x® Jacket 7804C Stranded (7x32 and lacket 7824R Jacket 7824P thylene Jacket 7824WB 30 and 19x29) TC •	NEC: CMR CEC: CMG d 19x32) TC ◆ Ara NEC: CMR CEC: CMR NEC: CMP CEC: CMP	1000 1640 3280 mid Yarn Strength 1000 1000	305 500 1000 Material • Overall 305 305 305	99 157 325 84% Tinned Copp 161 193 140 Copper Braid	45 71 147 per Braid 73.0 87.5	0.525 0.553 0.540	13.3 ²
Heavy Gauge Standard Cable 2 SM Fiber • 2 Power Conductors, 24 and 16 AWG • PVC Insulation • PVC Buffer Tube • Black Belfle Original Standard Cable 3-Channel Stadium Cable 6 SM Fiber • 6 Power Conductors, 24 and 18 AWG • PVC Insulation • PVC Buffer Tube • Green PVC J 3-Channel Stadium Cable FEP Insulation • PVC Buffer Tube • Green PVDF 3-Channel Stadium Cable PVC Insulation • PVC Buffer Tube • Black Polye Waterblocked 3-Channel Stadium Cable Electrical Camera Breakout Cable 4 Power Conductors, 22 and 16 AWG • Stranded (7x PVC Insulation • Black PVC Jacket Electrical Camera Breakout Cable	x® Jacket 7804C Stranded (7x32 and lacket 7824R Jacket 7824P thylene Jacket 7824WB 30 and 19x29) TC •	NEC: CMR CEC: CMG d 19x32) TC ◆ Ara NEC: CMR CEC: CMR NEC: CMP CEC: CMP	1000 1640 3280 mid Yarn Strength 1000 1000	305 500 1000 Material • Overall 305 305 305	99 157 325 84% Tinned Copp 161 193 140 Copper Braid	45 71 147 per Braid 73.0 87.5	0.525 0.553 0.540	9.20 13.34 14.05 13.77 6.35

*Available in bulk cable only.