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Product Bulletin

PB 144

Class 1 Speaker Cable

Designed to support high power audio amplfiers over 1kW, Belden Class 1 speaker cables feature increased flexibility and other characteristics tailored to AV applications in large venues.

Belden Class 1 Speaker Cables Maintain Installer Safety and Offer Installer-Friendly Features

Looking at the speaker terminals of any large power amplifier (1 kW or greater), you will read the words: “Class 1 Wiring Shall Be Used”. When audio is present, these speaker outputs become a safety concern for installers, so UL requires wiring that meets a Class 1 safety rating. In the past, installers and system designers have resorted to power wiring or industrial cables. Belden’s new line of Class 1 speaker cables is engineered specifically for these high wattage AV applications, commonly found in large venues.

Construction Details

Class 1 speaker cables are available in 14 AWG, 12 AWG, 10 AWG, 8 AWG and 6 AWG. These last two gauge sizes are new to Belden speaker cable and are intended for high power amplifiers (1 kW and up) when used with runs over 150 feet. The large gauge sizes minimize resistive loss in these cables, and the Class 1 rating keeps them safe. Belden offers two varieties - standard flexibility and high flexibility, both of which are more flexible than the other industry alternatives. Waterblocked constructions are also available.

Availability

Class 1 speaker cable are available in 1,000 foot lengths. Call **1.800.BELDEN.1** (1.800.235.3361) for availability and delivery information.

Be certain.

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Class 1 Speaker Cable

Description	Part No	UL NEC Type	No. of Cond.	Conductor (stranding) Diameter Nom. DCR	Standard Lengths		Standard Unit Weight		Nominal OD	
					Ft	m	Lbs.	kg	Inch	mm
6 AWG Stranded Bare Copper Conductors										
PVC/Nylon Insulation • Black PVC Jacket										
Sunlight resistant 600V 	**8806**	NEC: NPLF TC THHN/THWN	2	6 AWG 19 x 19 BC 0.4Ω/M' 1.4Ω/km	1000	305	265	120	0.640	16.26
8 AWG Stranded Bare Copper Conductors										
PVC/Nylon Insulation • Black PVC Jacket										
Sunlight resistant 600V 	**8808**	NEC: NPLF TC THHN/THWN	2	8 AWG 19 x 21 BC 0.7Ω/M' 2.2Ω/km	1000	305	195	88	0.570	14.48
Waterblocked Sunlight resistant 600V 	**8808WB**	NEC: NPLF TC THHN/THWN	2	8 AWG 19 x 21H BC 0.7Ω/M' 2.2Ω/km	1000	305	201	91	0.600	15.29
PVC/Nylon Insulation • Black TPE Jacket										
High Strand Sunlight resistant 600V 	**8808H**	NEC: NPLF TC THHN/THWN	2	8 AWG 7 x 19 x 29 BC 0.7Ω/M' 2.2Ω/km	1000	305	241	109	0.620	15.70
10 AWG Stranded Bare Copper Conductors										
PVC/Nylon Insulation • Black PVC Jacket										
Sunlight resistant 600V 	**8810**	NEC: NPLF TC THHN/THWN	2	10 AWG 19 x 23 BC 1.0Ω/M' 3.3Ω/km	1000	305	118	54	0.420	10.77
Waterblocked Sunlight resistant 600V 	**8810WB**	NEC: NPLF TC THHN/THWN	2	10 AWG 19 x 23 BC 1.0Ω/M' 3.3Ω/km	1000	305	121	55	0.450	11.53
PVC/Nylon Insulation • Black TPE Jacket										
High Strand Sunlight resistant 600V 	**8810H**	NEC: NPLF TC THHN/THWN	2	10 AWG 19 x 23 BC 1.0Ω/M' 3.3Ω/km	1000	305	131	59	0.440	11.23
12 AWG Stranded Bare Copper Conductors										
PVC/Nylon Insulation • Black PVC Jacket										
Sunlight resistant 600V 	**8812**	NEC: NPLF TC THHN/THWN	2	12 AWG 19 x 25 BC 1.6Ω/M' 5.3/km	1000	305	82	37	0.370	9.40
14 AWG Stranded Bare Copper Conductors										
PVC/Nylon Insulation • Black PVC Jacket										
Sunlight resistant 600V 	**8814**	NEC: NPLF TC THHN/THWN	2	14 AWG 19 x 26H BC 2.6Ω/M' 8.5Ω/km	1000	305	59	27	0.328	8.33