

Audio Control & Instrumentation Cable, 2C to 20C, 18AWG Unscreened & LSZH-HFFR Sheath

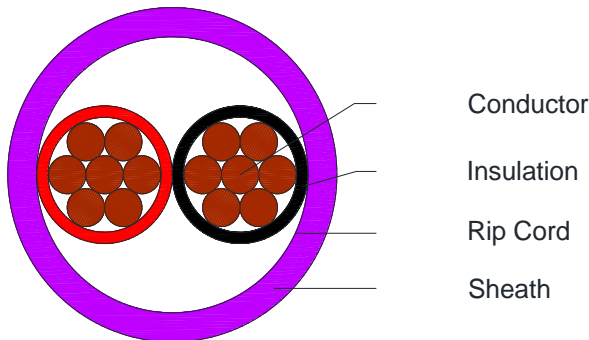


C5590, C5591, C5592, C5593, C5594, C5595, C5596, C5597, C5598, C5599, C5600, C5601, C5602

Applications

Unscreened Multi-Conductor cable suitable for Audio, Control, Instrumentation and Building Management Systems (BMS). UL listed E486876.

Cross Section Drawing



Design

Unit	Properties
Conductor	N x Bare Copper wire, 18AWG flexible
Insulation	Halogen Free Flame-Retardant (HFFR) Core 1: Black Core 2: Red Core 3: White Core 4: Green Core 5: Brown Core 6: Blue Core 7: Orange Core 8: Yellow Core 9: Purple Core 10: Grey Core 11: Pink Core 12: Tan Black Color with white number identification for cores more than 12
Rip cord	Nylon yarn
Sheath	Halogen Free Flame-Retardant (HFFR) Standard colour: Purple
Standard Put Up Length	305 meters

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	C5590	C5591	C5592	C5593	C5594	C5595	C5596	C5597	C5598	C5599	C5600	C5601	C5602
No of cores	2	3	4	5	6	7	8	9	10	11	12	20	24
Conductor Construction (AWG)	18 (7 x 26)												
Nom. Diameter Conductor(mm)	1.2												
Nom. Radial Thickness Insulation(mm)	0.25												
Nom. Radial Thickness Sheath(mm)	0.65												
Nom. Overall Diameter(mm)	4.6	4.9	5.3	5.8	6.0	6.2	6.8	7.4	7.9	8.1	8.2	9.8	11.2
Operating Temperature (°C)	-25 to +75												
Max. Recommended Pulling Tension (N)	200	299	399	500	600	700	797	900	996	1095	1195	2000	2400
Min. Bend Radius (install)(mm)	40	42	46	55	58	58	60	67	75	78	80	100	115
Nominal Cable Weight (kg/km)	29.2	39.0	49.3	59.7	69.6	79.4	89.9	101	111	121	130	208	248

Electrical Characteristics at 20°C

Part Number	C5590	C5591	C5592	C5593	C5594	C5595	C5596	C5597	C5598	C5599	C5600	C5601	C5602
No of cores	2	3	4	5	6	7	8	9	10	11	12	20	24
Max. DC Resistance Conductor (Ω/km)	22.7												
Capacitance conductor to conductor (pF/m)	52	55	45	50	50	50	50	50	50	50	50	50	50
Nominal Inductance (μH/m)	0.5												
Max. Recommended Current at 25°C (Amps)	5	5	4	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0
Max. Operating Voltage (Vrms)	300												

Reference Standards

(BS) EN 50290-2	IEC 60754-1&-2
IEC 60228	IEC 61034
IEC 60332-3-24	RoHS directives