

Audio, Control & Instrumentation Cable

1 to 12pr, 18AWG Unscreened – HFFR/LSZH Sheath

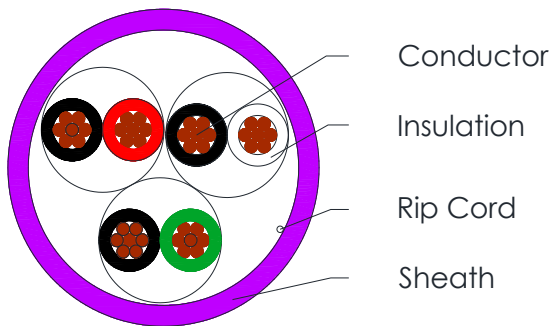


C5155, C5156, C5157, C5158, C5159, C5160, C5161, C5162, C5163, C5164, C5165

Applications

Unscreened paired cables suitable for Security and Alarm systems, Audio, Control and Instrumentation

Cross Section Drawing



Design

Unit	Properties
Conductor	Bare Copper wires
Insulation	Polyolefin Pair 1: Black/Red Pair 2: Black/White Pair 3: Black/Green Pair 4: Black/Blue Pair 5: Black/Yellow Pair 6: Black/Brown Pair 7: Black/Orange Pair 8: Black/Purple Pair 9: Black/Grey Pair 10: Black/Pink Pair 11: Black/Tan Pair 12: Black/Turquoise
Pair	two twisted wires
Cable Core	N pairs stranded
Rip Cord	Nylon Yarn
Sheath Material	Halogen Free Flame-Retardant (HFFR) / Low Smoke Zero Halogen (LSZH) 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	C5155	C5156	C5157	C5158	C5159	C5160	C5161	C5162	C5163	C5164	C5165
No. of Pairs	1	2	3	4	5	6	7	8	9	10	12
Nom. Diameter Conductor (AWG)	18 (7 x26)										
Nom. Radial Thickness Insulation (mm)	0.25										
Nom. Radial Thickness Sheath (mm)	0.8										
Nom. Overall Diameter (mm)	5.0	6.9	8.0	8.8	9.8	10.1	10.8	11.8	13.0	13.9	14.4
Operating Temperature (°C)	-25°C to +75°C										
Max. Recommended Pulling Tension (N)	160	317	475	635	795	954	1397	1594	1810	2015	2375
Min. Bend Radius (install) (mm)	51	70	81	89	99	102	109	119	131	135	140
Nominal Cable Weight (kg/km)	33.8	61.0	80.8	101.4	122.1	142.4	165.8	182.3	212.2	234.0	273.4

Electrical Characteristics

Part Number	C5155	C5156	C5157	C5158	C5159	C5160	C5161	C5162	C5163	C5164	C5165
No. of Pairs	1	2	3	4	5	6	7	8	9	10	12
Max. Conductor Resistance (Ohm/km)	22.7										
Capacitance cond to cond (pF/m)	60	75	76	77	78	79	79	79	79	79	80
Max. Current at 25°C (Amps)	4	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Operating Voltage (Vrms)	300										

Reference Standards

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