

Audio, Control & Instrumentation Cable

1 to 12pr, 16AWG Unscreened – PVC



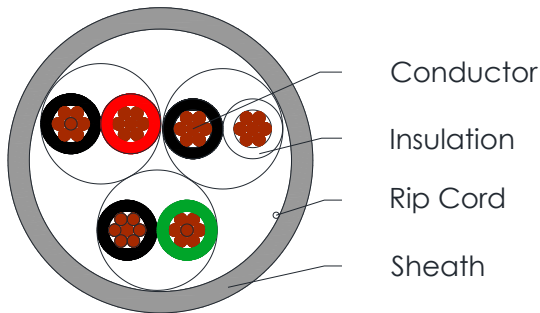
Sheath

CI 4078, CI 4079, CI 4080, CI 4081, CI 4082, CI 4083, CI 4084, CI 4085, CI 4086, CI 4087, CI 4088

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	Flame-Retardant Polyvinyl Chloride (PVC) Standard colour: Grey
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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Sheath



C14078, C14079, C14080, C14081, C14082, C14083, C14084, C14085, C14086,
C14087, C14088

Physical Characteristics

Part Number	C14078	C14079	C14080	C14081	C14082	C14083	C14084	C14085	C14086	C14087	C14088
No. of Pairs	1	2	3	4	5	6	7	8	9	10	12
Nom. Diameter Conductor (AWG)	16 (19 x29)										
Nom. Radial Thickness Insulation (mm)	0.25										
Nom. Radial Thickness Sheath (mm)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	1.0	1.0
Nom. Overall Diameter (mm)	5.4	8.8	9.4	10.3	11.4	12.4	12.8	13.7	15.2	16.4	17.0
Operating Temperature (°C)	-25°C to +90°C										
Max. Recommended Pulling Tension (N)	190	380	570	760	960	1150	1690	1925	2180	2430	2870
Min. Bend Radius (install) (mm)	54	88	94	103	114	124	128	137	152	164	170
Nominal Cable Weight (kg/km)	42.2	80.9	107.3	137.5	167.0	196.7	223.3	257.6	288.2	324.7	378.5

Electrical Characteristics

Part Number	C14078	C14079	C14080	C14081	C14082	C14083	C14084	C14085	C14086	C14087	C14088
No. of Pairs	1	2	3	4	5	6	7	8	9	10	12
Max. Conductor Resistance (Ohm/km)	15.47										
Capacitance cond to cond (pF/m)	55	55	55	55	55	50	50	50	50	50	50
Max. Current at 25°C (Amps)	5	5	4.35	4.35	4.35	4.35	4.35	3.5	3.5	3.5	3.5
Operating Voltage (Vrms)	300										

Reference Standards

(BS) EN 50290-2	IEC 60332-1
IEC 60228	RoHS directives