

Audio, Control & Instrumentation Cable

1 to 12pr, 16AWG Overall Screened – PVC



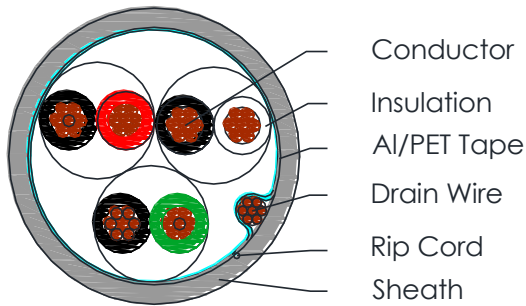
Sheath

CI 4089, CI 4090, CI 4091, CI 4092, CI 4093, CI 4094, CI 4095, CI 4096, CI 4097, CI 4098, CI 4099

Applications

Overall screened 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
Drain Wire	Tinned Copper Wire
Overall Screen	Aluminium/Polyester foil
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



C14089, C14090, C14091, C14092, C14093, C14094, C14095, C14096, C14097, C14098, C14099

Physical Characteristics

Part Number	C14089	C14090	C14091	C14092	C14093	C14094	C14095	C14096	C14097	C14098	C14099
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										
Drain wire size (AWG)	24AWG (7 x32)										
Coverage of screen (%)	115										
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)	5.5	8.9	9.5	10.4	11.5	12.5	12.9	13.8	15.3	16.5	17.1
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)	55	89	95	104	115	125	129	138	153	165	171
Nominal Cable Weight (kg/km)	45.2	83.9	111.3	140.5	170.0	199.7	226.3	260.6	292.2	328.7	382.5

Electrical Characteristics

Part Number	C14089	C14090	C14091	C14092	C14093	C14094	C14095	C14096	C14097	C14098	C14099
No. of Pairs	1	2	3	4	5	6	7	8	9	10	12
Max. Conductor Resistance (Ohm/km)	15.47										
Max. Screen Resistance (Ohm/km)	78.5										
Capacitance cond to cond (pF/m)	340	140	135	135	130	130	130	130	125	125	125
Capacitance Cond to rest (pF/m)	600	280	270	270	260	260	260	260	250	250	250
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