

Audio, Control & Instrumentation Cable

1 to 12pr, 16AWG Overall Screened – HFFR/LSZH



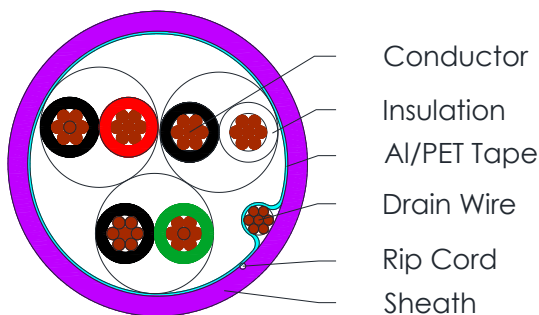
Sheath

C5179, C5180, C5181, C5182, C5183, C5184, C5185, C5186, C5187, C5188, C5189

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	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	C5179	C5180	C5181	C5182	C5183	C5184	C5185	C5186	C5187	C5188	C5189
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 +75°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	C5179	C5180	C5181	C5182	C5183	C5184	C5185	C5186	C5187	C5188	C5189
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 60754-1&-2
IEC 60228	IEC 61034
IEC 60332-3-24	RoHS directives