

Audio, Control & Instrumentation Cable

1 to 6pr, 18AWG Overall Screened – HFFR Sheath

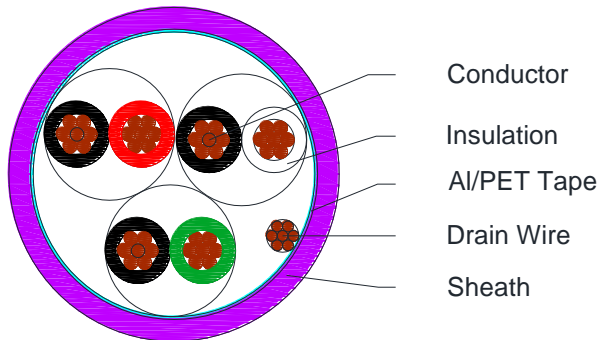


CI 171, CI 172, CI 173, CI 174, CI 175, CI 176

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	two twisted wires
Cable Core	N pairs stranded
Drain Wire	Tinned Copper Wire
Overall Screen	Aluminium/Polyester foil
Sheath Material	Halogen-free (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.

Audio, Control & Instrumentation Cable

I to 6pr, I 8AWG Overall Screened – HFFR Sheath



C1171, C1172, C1173, C1174, C1175, C1176

Physical Characteristics

Part Number	C1171	C1172	C1173	C1174	C1175	C1176
No. of Pairs	1	2	3	4	5	6
Nom. Diameter Conductor (AWG)	18 (7 x26)					
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					
Nom. Overall Diameter (mm)	5.1	7.7	8.1	8.9	9.9	10.2
Operating Temperature (°C)	-25°C to +75°C					
Max. Recommended Pulling Tension (N)	160	317	475	635	795	954
Min. Bend Radius (install) (mm)	51	77	81	89	99	102
Nominal Cable Weight (kg/km)	4.1	7.4	9.6	12.4	14.9	17.1

Electrical Characteristics

Part Number	C1171	C1172	C1173	C1174	C1175	C1176
Max. Conductor Resistance (Ohm/km)	22.7					
Max. Screen Resistance (Ohm/km)	78.5					
Capacitance cond to cond (pF/m)	160	100	100	100	95	95
Capacitance Cond to rest (pF/m)	300	180	170	160	150	145
Max. Current at 25°C (Amps)	4	4	3.5	3.5	3.5	3.5
Operating Voltage (Vrms)	300					

Reference Standards

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