

# Audio, Control & Instrumentation Cable

## 1 to 16pr, 18AWG Overall Screened – HFFR/LSZH



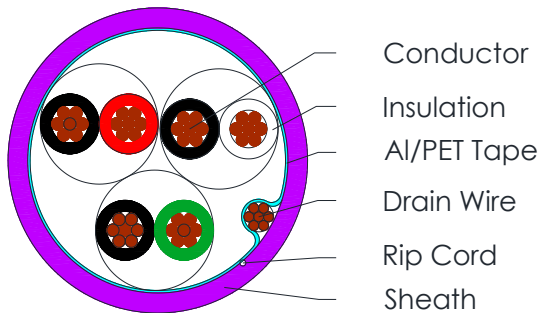
### Sheath

CI171, CI172, CI173, CI174, CI175, CI176, CI767, CI768, CI769, CI770, CI771, C5333

### 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 For pairs above 12, Black and white insulation marked with sequential numbers.
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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## Sheath



C1171, C1172, C1173, C1174, C1175, C1176, C1767, C1768, C1769, C1770, C1771, C5333

### Physical Characteristics

Part Number	C1171	C1172	C1173	C1174	C1175	C1176	C1767	C1768	C1769	C1770	C1771	C5333
No. of Pairs	1	2	3	4	5	6	7	8	9	10	12	16
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	7.0	8.1	8.9	9.9	10.2	10.9	11.9	13.1	14.0	14.5	16.5
Operating Temperature (°C)	-25°C to +75°C											
Max. Recommended Pulling Tension (N)	160	317	475	635	795	954	1397	1594	1810	2015	2375	3166
Min. Bend Radius (install) (mm)	51	70	81	89	99	102	109	119	131	135	140	165
Nominal Cable Weight (kg/km)	36.9	63.5	83.3	104.4	125.1	145.4	168.8	185.8	215.7	237.4	277.4	354.8

### Electrical Characteristics

Part Number	C1171	C1172	C1173	C1174	C1175	C1176	C1767	C1768	C1769	C1770	C1771	C5333
No. of Pairs	1	2	3	4	5	6	7	8	9	10	12	16
Max. Conductor Resistance (Ohm/km)	22.7											
Max. Screen Resistance (Ohm/km)	78.5											
Capacitance cond to cond (pF/m)	210	100	100	100	95	95	95	95	95	90	90	90
Capacitance Cond to rest (pF/m)	380	180	170	160	150	145	145	145	145	140	140	140
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	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