

Audio, Control & Instrumentation Cable

1 to 12pr, 18AWG Overall Screened –

HFFR/LSZH Sheath

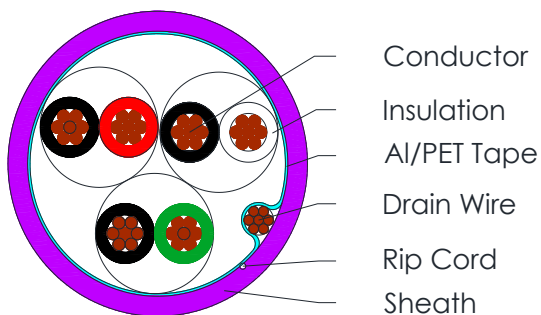


C1755, C1756, C1757, C1758, C1759, C1794, C1795, C1796, C1797, C1798, C1799

Applications

Overall screened paired cables suitable for Security and Alarm systems, Audio, Control and Instrumentation

Cross Section Drawing



Design

Unit	Properties
Conductor	Tinned Copper wires
Insulation	LSZH/HFFR 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	C1755	C1756	C1757	C1758	C1759	C1794	C1795	C1796	C1797	C1798	C1799
No. of Pairs	1	2	3	4	5	6	7	8	9	10	12
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	7.6	8.1	8.9	9.6	10.2	10.9	11.9	13.1	14.0	14.5
Operating Temperature (°C)	-25°C to +75°C										
Max. Recommended Pulling Tension (N)	160	317	475	635	795	954	1397	1594	1810	2015	2375
Min. Bend Radius (install) (mm)	51	76	81	89	96	102	109	119	131	135	140
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

Electrical Characteristics

Part Number	C1755	C1756	C1757	C1758	C1759	C1794	C1795	C1796	C1797	C1798	C1799
No. of Pairs	1	2	3	4	5	6	7	8	9	10	12
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
Capacitance Cond to rest (pF/m)	380	180	170	160	150	145	145	145	145	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
Operating Voltage (Vrms)	300										

Reference Standards

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