

Audio Control & Instrumentation Cable

1 pr, 12 to 22AWG, Overall Screen, HFFR/LSZH Sheath

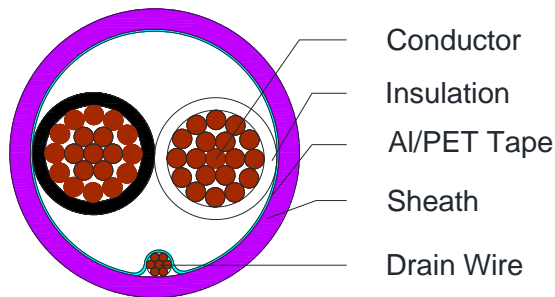


C5736, C5737, C5738, C5739, C5740, C5741

Applications

Screened one pair cable suitable for Audio, Control, Instrumentation and Building Management Systems (BMS)

Cross Section Drawing



Design

Unit	Properties
Conductor	Flexible Tinned Copper wire
Insulation	PP Core 1: Black Core 2: White
Pair	Two wires twisted together
Drain Wire	24 AWG (7 x 32) Tinned Copper
Screen	Aluminium/Polyester 100% Coverage
Sheath Material	Halogen-Free Flame-Retardant (HFFR/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	C5736	C5737	C5738	C5739	C5740	C5741
Number of pairs	1					
Conductor size (AWG)	12	14	16	18	20	22
Conductor stranding (AWG)	19x25	19x27	19x29	7x26	7x28	7x30
Nom. Radial Thickness Insulation (mm)	0.8	0.8	0.8	0.5	0.4	0.4
Nom. Radial Thickness Sheath (mm)	0.9	0.9	0.8	0.8	0.8	0.8
Nom. Overall Diameter(mm)	9.8	8.8	7.8	6.0	5.3	4.8
Operating Temperature (°C)	-25 / +75					
Max. Recommended Pulling Tension (N)	665	420	270	200	110	80
Min. Bend Radius (install) (mm)	99	88	78	60	53	45
Nominal Cable Weight (kg/km)	132.6	97.9	74.3	48.4	37.2	27.1

Electrical Characteristics

Part Number	C5736	C5737	C5738	C5739	C5740	C5741
Max. DC Resistance Conductor (Ω /km)	5.61	9.36	15.47	22.7	35.75	57.4
Max. DC Resistance Screen (Ω /km)	78.5					
Capacitance conductor to conductor (pF/m)	80	76	76	75	75	75
Capacitance cond. to other cond.+scrn (pF/m)	120	120	120	120	120	108
Nominal Inductance (μ H/m)	0.6					
Max. Recommended Current at 25°C (Amps)	13	9.5	7.1	5.2	3.9	2.9
Max. Operating Voltage (Vrms)	600	600	300	300	300	300

Reference Standards

(BS) EN 50290-2	IEC 60754-1&-2
IEC 60228	IEC 61034
IEC 60332-3-24	UL 1685
RoHS directives	