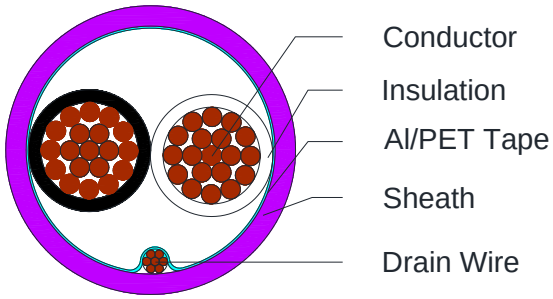
Audio Control & Instrumentation Cable
1 pr, 12 to 22AWG, Overall Screen, HFFR/LSZH Sheath

C1303, C1305, C1270, C1272, C1308, C1310

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	HFFR/LSZH Core 1: Black Core 2: White
Pair	Two wires twisted together as a pair
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.

Audio Control & Instrumentation Cable
1pr, 12 to 22AWG, Overall Screen, HFFR/LSZH Sheath

C1303, C1305, C1270, C1272, C1308, C1310

Physical Characteristics

Part Number	C1303	C1305	C1270	C1272	C1308	C1310
Number of Twisted 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	C1303	C1305	C1270	C1272	C1308	C1310
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）	120	120	120	125	128	130
Capacitance cond. to other cond.+scrn （pF/m）	215	220	240	250	250	254
Nominal Inductance （μH/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	