

Audio Control & Instrumentation Cable

1 pr, 12 to 22AWG, Overall Screen, CMP PVC Sheath

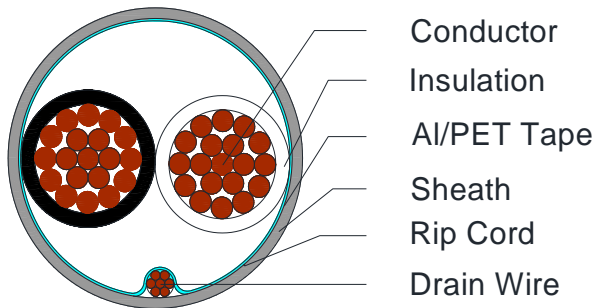


C8303, C8305, C8270, C8272, C8308, C8310

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	Flame-Retardant PVC Core 1: Black Core 2: White
Pair	Two wires twisted together
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	24 AWG (7 x 32) Tinned Copper
Sheath Material	Plenum Grade Flame-Retardant Polyvinyl Chloride (CMP PVC) Standard colour: Grey
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	C8303	C8305	C8270	C8272	C8308	C8310
Number of pairs	1					
Conductor size (AWG)	12	14	16	18	20	22
Conductor stranding (mm)	19x0.48	19x0.38	19x0.29	7x0.40	7x0.325	7x0.25
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	C8303	C8305	C8270	C8272	C8308	C8310
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 (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	NFC 725.154(A),ANSI/NFPA 262
IEC 60228	RoHS directives