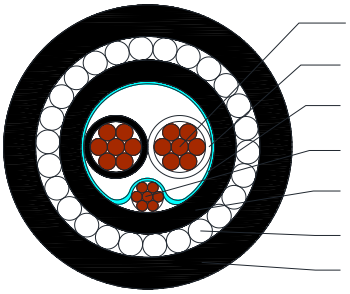
Audio Control & Instrumentation Cable
1pr 22 to 12AWG, Overall Screen, SWA Armour, HFFR Sheath

C2003, C2005, C2008, C2010, C2011, C2013

Applications

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

Cross Section Drawing



Design

Unit	Properties
Conductor	Tinned Copper Wires One twisted pair
Insulation	Polyolefin Core 1: Black Core 2: White
Screen	Aluminium/Polyester Tape
Drain Wire	Tinned Copper Wire
Bedding	Halogen Free Flame-Retardant (HFFR)
Armour	Galvanized Steel wire
Sheath	Uv Resistant Halogen Free Flame Retardant (HFFR) Black
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	C2003	C2005	C2008	C2010	C2011	C2013
Number of pairs	1	1	1	1	1	1
Conductor size (AWG)	12	14	16	18	20	22
Conductor configuration (AWG)	19x25	19x27	19x29	7x26	7x28	7x30
Nom. Radial Thickness Insulation (mm)	0.8	0.8	0.8	0.5	0.4	0.4
Screen Coverage (%)	115					
Drain wire size (AWG)	24 (7 x 32)					
Nom. Radial Thickness Bedding (mm)	0.9	0.9	0.8	0.8	0.8	0.6
Nom. Bedding Diameter (mm)	9.9	8.8	7.8	6.0	5.3	4.8
Nom. SWA wire Diameter (mm)	0.90					
Nom. Overall diameter (mm)	14.1	13.0	12.0	10.2	9.3	8.8
Operating Temperature (°C)	-25 / +75					

Electrical Characteristics

Part Number	C2003	C2005	C2008	C2010	C2011	C2013
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)	135	115	95	108	110	95
Capacitance cond. to other cond.+scrn (pF/m)	250	218	185	200	208	185
Nominal Inductance	0.6					
Max. Recommended Current at 25°C (µH/m)	13	9.5	7.1	5.2	3.9	2.9
Max. Operating Voltage (Amps)	600	600	300	300	300	300

Reference Standards

(BS) EN 50290-2
EN 60228
IEC 60754-1 & 2
IEC 61034
IEC 60332-3-24
EN 60811-HD21.14
RoHS directives