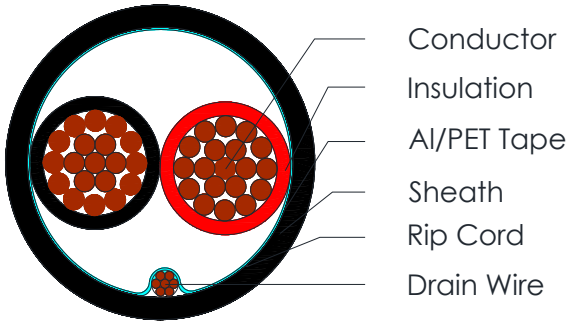
Audio Control & Instrumentation Cable, 2C to 8C, 16AWG, Overall Screen & PE Sheath

C1806, C1808, C1810, C1838, C1840

Applications

Screened Multi-Conductor cable suitable for Audio, Control, Instrumentation and Building Management Systems (BMS)

Cross Section Drawing



Design

Unit	Properties
Conductor	N x Bare Copper wire, 16AWG flexible
Insulation	Polyolefin Core 1: Black Core 2: Red Core 3: White Core 4: Green Core 5: Brown Core 6: Blue Core 7: Orange Core 8: Yellow
Drain wire	24 AWG (7 x 32) Tinned Copper
Screen	Aluminium/Polyester 100% Coverage
Rip cord	Nylon yarn
Sheath	PE Standard colour: 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	C1806	C1808	C1810	C1838	C1840
No of cores x 16AWG (19 x 29)	2	3	4	6	8
Nom. Diameter Conductor(mm)	1.4				
Nom. Radial Thickness Insulation(mm)	0.2				
Nom. Radial Thickness Sheath(mm)	0.6				
Nom. Overall Diameter(mm)	5.0	5.3	5.7	7.2	8.0
Operating Temperature (°C)	-25 to +75				
Max. Recommended Pulling Tension (N)	262	391	520	780	1040
Min. Bend Radius (install)(mm)	50	53	57	72	80
Nominal Cable Weight (kg/km)	34	46	58	84	115

Electrical Characteristics at 20°C

Part Number	C1806	C1808	C1810	C1838	C1840
No of cores x 16AWG (19 x 29)	2	3	4	6	8
Max. DC Resistance Conductor (Ω/km)	15.47				
Max. DC Resistance Screen (Ω/km)	78.5				
Capacitance conductor to conductor (pF/m)	105	105	90	80	80
Capacitance cond. To other cond.+screen (pF/m)	185	190	185	160	160
Nominal Inductance ()	0.5				
Max. Recommended Current at 25°C (Amps)	6.25	6.25	5	4.35	4.35
Max. Operating Voltage (Vrms)	300				

Reference Standards

(BS) EN 50290-2
IEC 60228
RoHS directives