

Audio Control & Instrumentation Cable, 2 to 8C, 18AWG, Overall Screen & CMP PVC Sheath

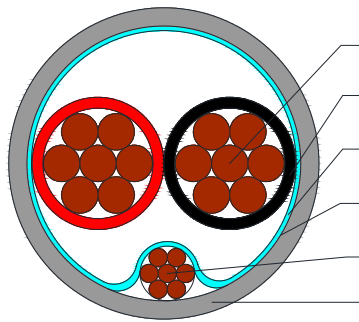


C8412, C8413, C8414, C8415, C8416, C8417, C8418

Applications

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

Cross Section Drawing



- Conductor
- Insulation
- Al/PET Tape
- Rip Cord
- Drain Wire
- Sheath



Design

Unit	Properties
Conductor	Tinned Copper wire, 18AWG flexible
Insulation	Fluorinated Ethylene Propylene 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	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	C8412	C8413	C8414	C8415	C8416	C8417	C8418
No of cores	2	3	4	5	6	7	8
Conductor Construction (AWG)	18(7 x 26)						
Nom. Radial Thickness Insulation(mm)	0.2						
Nom. Radial Thickness Sheath(mm)	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Nom. Overall Diameter(mm)	4.0	4.2	4.6	5.5	5.75	5.9	6.4
Operating Temperature (°C)	-25 to +75						
Max. Recommended Pulling Tension (N)	200	299	399	500	600	620	797
Min. Bend Radius (install)(mm)	40	42	46	55	58	59	64
Nominal Cable Weight (kg/km)	29.6	39.2	49.4	60.2	70.9	79	89.5

Electrical Characteristics at 20°C

Part Number	C8412	C8413	C8414	C8415	C8416	C8417	C8418
No of core	2	3	4	5	6	7	8
Max. DC Resistance Conductor (Ω /km)	22.7						
Max. DC Resistance Screen (Ω /km)	78.5						
Capacitance conductor to conductor (pF/m)	95	90	75	75	75	75	75
Capacitance cond. To Rest (pF/m)	175	170	160	145	140	140	140
Nominal Inductance (μ H/m)	0.5						
Max. Recommended Current at 25°C (Amps)	5	5	4	3.5	3.5	3.5	3.5
Max. Operating Voltage (Vrms)	300						

Reference Standards

(BS) EN 50290-2	NFC 725.154(A), ANSI/NFPA 262
IEC 60228	RoHS directives