

Audio Control & Instrumentation Cable, 2 to 12C, 18AWG, Overall Screen & PVC Sheath

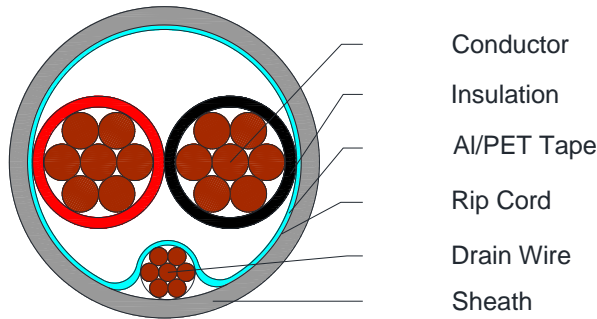


C4412, C4413, C4414, C4415, C4416, C4417, C4418, C4643

Applications

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

Cross Section Drawing



Design

Unit	Properties
Conductor	Tinned Copper wire, 18AWG 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 Core 9: Purple Core 10: Grey Core 11: Pink Core 12: Tan
Drain wire	24 AWG (7 x 32) Tinned Copper
Screen	Aluminium/Polyester 100% Coverage
Rip cord	Nylon yarn
Sheath	Flame-Retardant Polyvinyl Chloride (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	C4412	C4413	C4414	C4415	C4416	C4417	C4418	C4643
No of cores	2	3	4	5	6	7	8	12
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	0.5
Nom. Overall Diameter(mm)	4.0	4.2	4.6	5.5	5.75	5.9	6.4	7.5
Operating Temperature (°C)	-25 to +75							
Max. Recommended Pulling Tension (N)	200	299	399	500	600	620	797	1195
Min. Bend Radius (install)(mm)	40	42	46	55	58	59	64	75
Nominal Cable Weight (kg/km)	29.6	39.2	49.4	60.2	70.9	79	89.5	134.2

Electrical Characteristics at 20°C

Part Number	C4412	C4413	C4414	C4415	C4416	C4417	C4418	C4643
No of core	2	3	4	5	6	7	8	12
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	75
Capacitance cond. To Rest (pF/m)	175	170	160	145	140	140	140	140
Nominal Inductance (μH/m)	0.5							
Max. Recommended Current at 25°C (Amps)	5	5	4	3.5	3.5	3.5	3.5	3.5
Max. Operating Voltage (Vrms)	300							

Reference Standards

(BS) EN 50290-2	IEC 60332-1
IEC 60228	RoHS directives