

Audio Control & Instrumentation Cable, 2C to 12C, 16AWG, Overall Screen & PVC Plenium Rated Sheath

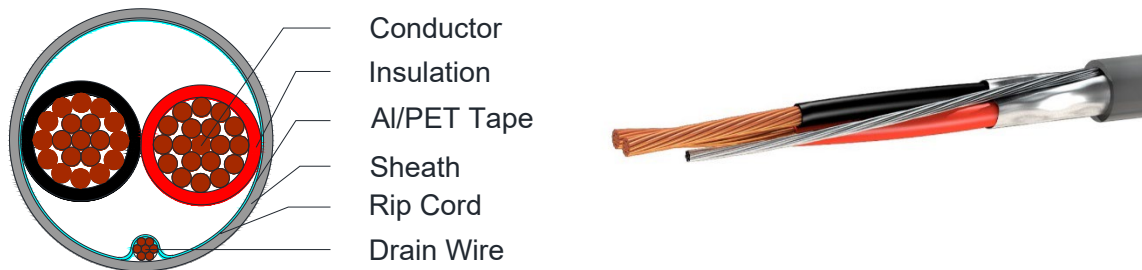


C8007, C8009, C8011, C8252, C8254, C8659, C8411, C8591

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	Flame-Retardant Polyvinyl Chloride (PVC) 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) CMP Rated 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	C8007	C8009	C8011	C8591	C8252	C8254	C8659	C8411
No of cores x 16AWG (19 x 29)	2	3	4	5	6	8	10	12
Nom. Diameter Conductor(mm)	1.4							
Nom. Radial Thickness Insulation(mm)	0.2							
Nom. Radial Thickness Sheath(mm)	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5
Nom. Overall Diameter(mm)	4.6	4.9	5.3	6.0	6.8	7.6	8.5	8.8
Operating Temperature (°C)	-25 to +75							
Max. Recommended Pulling Tension (N)	262	391	520	650	780	1040	1300	1560
Min. Bend Radius (install)(mm)	46	49	53	60	68	76	85	88
Nominal Cable Weight (kg/km)	37.3	50	63.5	79.4	91.6	120.8	138.2	167.7

Electrical Characteristics at 20°C

Part Number	C8007	C8009	C8011	C8591	C8252	C8254	C8659	C8411
No of cores x 16AWG (19 x 29)	2	3	4	5	6	8	10	12
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	70	70	70
Capacitance cond. To other cond.+screen (pF/m)	185	190	185	160	160	150	150	150
Nominal Inductance ()	0.5							
Max. Recommended Current at 25°C (Amps)	6.25	6.25	5	5	4.35	4.35	4.35	4.35
Max. Operating Voltage (Vrms)	300							

Reference Standards

(BS) EN 50290-2
IEC 60228
CMP Rated
RoHS directives