

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



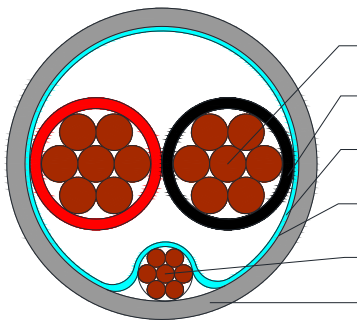
## Plenium Rated Sheath

C8013, C8015, C8017, C8144, C8211, C8239, C8258

### 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	N x Bare 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
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	C8013	C8015	C8017	C8144	C8211	C8239	C8258
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	C8013	C8015	C8017	C8144	C8211	C8239	C8258
No of core	2	3	4	5	6	7	8
Max. DC Resistance Conductor ( $\Omega$ /km)	22.7						
Max. DC Resistance Screen ( $\Omega$ /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 ( $\mu$ 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	CMP Rated
IEC 60228	RoHS directives