

# Audio, Control & Instrumentation Cable

## 2 to 12pr, 18AWG Overall Screened – CMP PVC

### Sheath

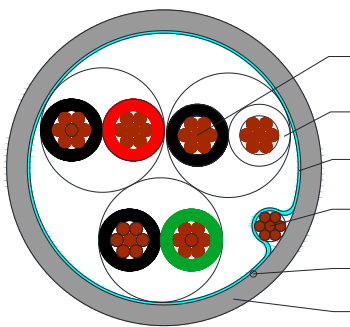


C8109, C8110, C8111, C8112, C8113, C8114, C8115, C8116, C8117, C8118

### Applications

Overall screened paired cables suitable for Security and Alarm systems, Audio, Control and Instrumentation

### Cross Section Drawing



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



### Design

Unit	Properties
Conductor	Bare Copper wires
Insulation	Polyolefin Pair 1: Black/Red Pair 2: Black/White Pair 3: Black/Green Pair 4: Black/Blue Pair 5: Black/Yellow Pair 6: Black/Brown Pair 7: Black/Orange Pair 8: Black/Purple Pair 9: Black/Grey Pair 10: Black/Pink Pair 11: Black/Tan Pair 12: Black/Turquoise
Pair	two twisted wires
Cable Core	N pairs stranded
Drain Wire	Tinned Copper Wire
Overall Screen	Aluminium/Polyester foil
Rip Cord	Nylon Yarn
Sheath Material	Plenum 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	C8109	C8110	C8111	C8112	C8113	C8114	C8115	C8116	C8117	C8118
No. of Pairs	2	3	4	5	6	7	8	9	10	12
Nom. Diameter Conductor (AWG)	18 (7 x26)									
Nom. Radial Thickness Insulation (mm)	0.20									
Drain wire size (AWG)	24AWG (7 x32)									
Coverage of screen (%)	115									
Nom. Radial Thickness Sheath (mm)	0.4	0.4	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8
Nom. Overall Diameter (mm)	6.8	7.4	8.4	9.2	10.0	10.3	11.3	12.6	13.5	14.0
Operating Temperature (°C)	-25°C to +75°C									
Max. Recommended Pulling Tension (N)	400	575	735	995	1154	1387	1594	1810	2015	2375
Min. Bend Radius (install) (mm)	68	74	84	92	100	103	113	126	135	140
Nominal Cable Weight (kg/km)	51.3	69.5	88.0	110.0	134.7	152.3	178.4	200.0	222.1	257.8

### Electrical Characteristics

Part Number	C8109	C8110	C8111	C8112	C8113	C8114	C8115	C8116	C8117	C8118
No. of Pairs	2	3	4	5	6	7	8	9	10	12
Max. Conductor Resistance (Ohm/km)	22.7									
Max. Screen Resistance (Ohm/km)	78.5									
Capacitance cond to cond (pF/m)	75	75	75	70	70	70	70	70	70	70
Capacitance Cond to rest (pF/m)	145	145	145	140	140	140	130	130	130	130
Max. Current at 25°C (Amps)	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Operating Voltage (Vrms)	300									

### Reference Standards

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