

# Audio Control & Instrumentation Cable, 2C to 8C, 14AWG Overall Screen, Plenum Grade PVC Sheath

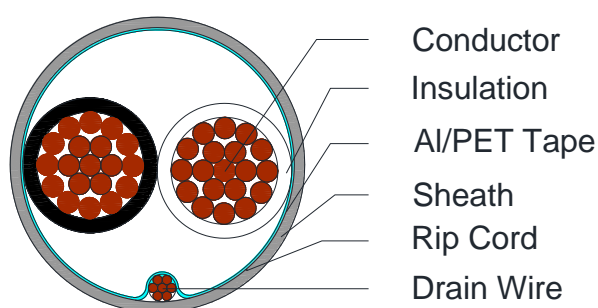


**C8701, C8703, C8705, C8707, C8709**

## Applications

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

## Cross Section Drawing



## Design

Unit	Properties
Conductor	Flexible Bare Copper Wire
Insulation	PVC Core 1: Black Core 2: White Core 3: Red Core 4: Green Core 5: Brown Core 6: Blue Core 7: Orange Core 8: Yellow
Screen	Aluminium/Polyester Tape
Drain wire	Tinned Copper Wire
Rip cord	Nylon yarn
Sheath	Plenum Grade 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.

# Audio Control & Instrumentation Cable, 2C to 8C, 14AWG Overall Screen, Plenum Grade PVC Sheath



## C8701, C8703, C8705, C8707, C8709

### Physical Characteristics

Part Number	C8701	C8703	C8705	C8707	C8709
No of cores x 14AWG (19X27)	2	3	4	6	8
Nom. Diameter Conductor(mm)	1.8				
Nom. Radial Thickness Insulation(mm)	0.3				
Min. Screen Coverage (%)	115				
Drain Wire Size (AWG)	24(7 X32)				
Nom. Radial Thickness Sheath(mm)	0.8				
Nom. Overall Diameter(mm)	6.5	6.9	7.5	8.9	9.6
Operating Temperature (°C)	0 to +60				
Max. Recommended Pulling Tension (N)	420	634	845	1266	1688
Min. Bend Radius (install)(mm)	65	69	75	89	96
Nominal Cable Weight (kg/km)	68	93	115	164	208

### Electrical Characteristics at 20°C

Part Number	C8701	C8703	C8705	C8707	C8709
No of cores x 14AWG (19X27)	2	3	4	6	8
Max. DC Resistance Conductor ( $\Omega$ /km)	9.36				
Max. DC Resistance Screen ( $\Omega$ /km)	78.5				
Capacitance conductor to conductor (pF/m)	248	230	215	208	205
Capacitance cond. To other cond.+screen (pF/m)	452	414	385	374	370
Max. Recommended Current at 25°C (Amps)	8	8	6.4	5.6	5.6
Max. Operating Voltage (Vrms)	300				

### Reference Standards

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