

# Audio Control & Instrumentation Cable, 2C to 9C, 18AWG Overall Screen, Plenum Grade Sheath

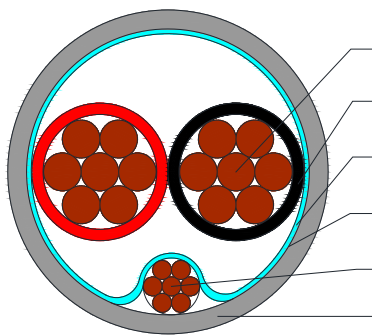


C8721, C8723, C8725, C8727, C8729, C8800

## Applications

Screened Multi-Conductor cables 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	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
Drain Wire	24 AWG (7 x 32) Tinned Copper
Screen	Aluminium/Polyester 100% Coverage
Sheath Material	Plenum Grade Flame-Retardant Polyvinyl Chloride (PVC) Standard Colour: Grey
Rip Cord	Nylon Yarn
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 9C, 18AWG Overall Screen, Plenum Grade Sheath



C8721, C8723, C8725, C8727, C8729, C8800

## Physical Characteristics

Part Number	C8721	C8723	C8725	C8727	C8729	C8800
No of cores x 18AWG (7 x 26)	2	3	4	6	8	9
Nom. Diameter Conductor (mm)	1.2					
Nom. Radial Thickness Insulation (mm)	0.30					
Nom. Radial Thickness Sheath (mm)	0.65					
Nom. Overall Diameter (mm)	5.0	5.3	5.7	6.8	7.6	7.9
Operating Temperature (°C)	0 / +60					
Max. Recommended Pulling Tension (N)	200	299	399	600	797	896
Min. Bend Radius (install) (mm)	50	53	57	68	76	79
Nominal Cable Weight (kg/km)	37.9	48.8	59.3	82.4	104.2	117.2

## Electrical Characteristics

Part Number	C8721	C8723	C8725	C8727	C8729	C8800
No of cores x 18AWG (7 x 26)	2	3	4	6	8	9
Max. DC Resistance Conductor ( $\Omega$ /km)	22.7					
Max. DC Resistance Screen ( $\Omega$ /km)	78.5					
Capacitance conductor to conductor (pF/m)	90	90	85	85	85	85
Capacitance conductor to rest (pF/m)	180	180	170	170	170	170
Nominal Inductance ( $\mu$ H/m)	0.5					
Max. Recommended Current at 25°C (Amps)	5	5	4	3.5	3.5	3.5
Max. Operating Voltage (Vrms)	300					

## Reference Standards

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