

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

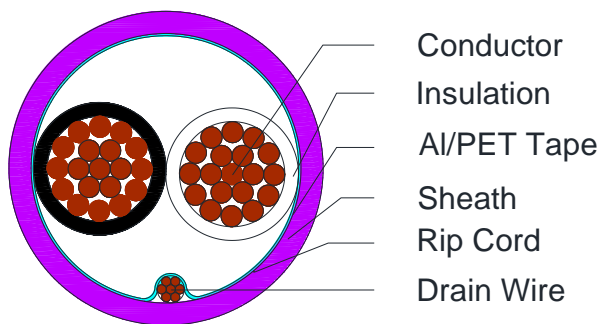


CI 701, CI 703, CI 705, CI 707, CI 709

## Applications

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

## Cross Section Drawing



## Design

Unit	Properties
Conductor	N x Bare Copper wire, 14AWG flexible
Insulation	HFFR Core 1: Black Core 2: White Core 3: Red 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 Material	Flame-Retardant Halogen Free (HFFR) Standard colour: purple
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, HFFR Sheath



C1701, C1703, C1705, C1707, C1709

## Physical Characteristics

Part Number	C1701	C1703	C1705	C1707	C1709
No of cores x 14AWG (19 x 27)	2	3	4	6	8
Nom. Diameter Conductor (mm)	1.8				
Nom. Radial Thickness Insulation (mm)	0.3				
Nom. Radial Thickness Sheath (mm)	0.8				
Nom. Overall Diameter (mm)	6.5	6.9	7.5	8.9	9.6
Operating Temperature (°C)	-25 / +75				
Max. Recommended Pulling Tension (N)	420	635	845	1265	1685
Min. Bend Radius (install) (mm)	65	69	75	89	96
Nominal Cable Weight (kg/km)	64.4	86	107.8	152.6	194.4

## Electrical Characteristics

Part Number	C1701	C1703	C1705	C1707	C1709
No of cores x 14AWG (19 x 27)	2	3	4	6	8
Max. DC Resistance Conductor (Ω/km)	9.36				
Max. DC Resistance Screen (Ω/km)	78.5				
Capacitance conductor to conductor (pF/m)	190	185	183	178	173
Capacitance core to rest (pF/m)	340	350	330	320	315
Nominal Inductance (μH/m)	0.5				
Max. Recom. Current @ 25°C (Amps)	8	8	6.4	5.6	5.6
Max. Operating Voltage (Vrms)	300				

## Reference Standards

(BS) EN 50290-2
IEC 60228
IEC 60754-1 & 2
IEC 61034, IEC 60332-3-24
RoHS directives