

# Audio Control & Instrumentation Cable, 2C to 8C, 20AWG Overall Screen, HFFR Sheath

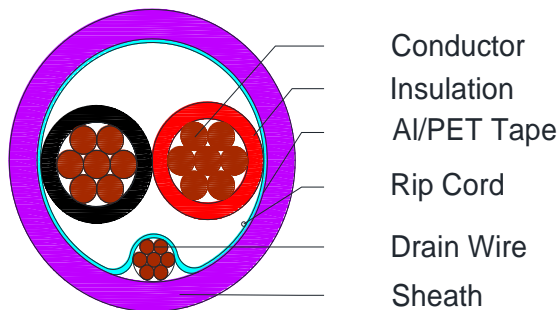


CI731, CI733, CI735, CI737, CI739

## 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, 20AWG flexible
Insulation	HFFR 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 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, 20AWG Overall Screen, HFFR Sheath



C1731, C1733, C1735, C1737, C1739

## Physical Characteristics

Part Number	C1731	C1733	C1735	C1737	C1739
No of cores x 20AWG (7 x 28)	2	3	4	6	8
Nom. Diameter Conductor (mm)	0.93				
Nom. Radial Thickness Insulation (mm)	0.25				
Nom. Radial Thickness Sheath (mm)	0.8				
Nom. Overall Diameter (mm)	4.7	4.9	5.3	6.2	6.7
Operating Temperature (°C)	-25 / +75				
Max. Recommended Pulling Tension (N)	112	168	224	336	448
Min. Bend Radius (install) (mm)	47	49	53	62	67
Nominal Cable Weight (kg/km)	30.8	37.7	45.8	62.6	78

## Electrical Characteristics

Part Number	C1731	C1733	C1735	C1737	C1739
No of cores x 20AWG (7 x 28)	2	3	4	6	8
Max. DC Resistance Conductor ( $\Omega$ /km)	35.75				
Max. DC Resistance Screen ( $\Omega$ /km)	78.5				
Capacitance conductor to conductor (pF/m)	138	140	120	115	115
Capacitance conductor to the rest (pF/m)	248	240	215	210	210
Nominal Inductance ( $\mu$ H/m)	0.5				
Max. Recom. Current @ 25°C (Amps)	3.75	3.75	3	2.6	2.6
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