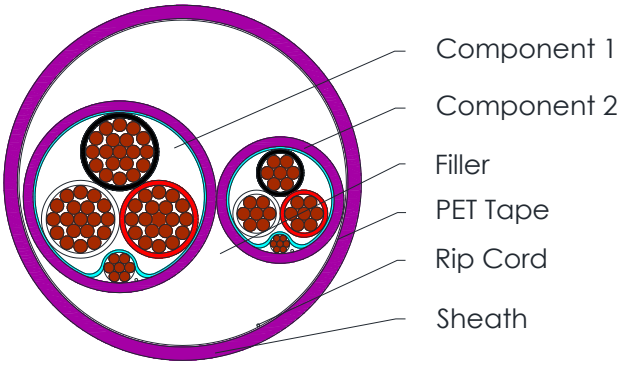
Audio Control & Instrumentation Cable, 12 and 18AWG Screened Composite Cable HFFR/LSZH Sheath

C5000

Applications

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

Cross Section Drawing



Design

Unit		Properties
Component 1	Conductor	3Core Bare Copper wire, 12AWG flexible
	Insulation	HFFR Core 1: Black, Core 2: White, Core 3: Red
	Screen	Aluminium/Polyester 100% Coverage
	Drain Wire	Tinned Copper wire
	Rip cord	Nylon yarn
	Sheath Material	Flame-Retardant Halogen Free (HFFR/LSZH) Standard colour: Purple
Component 2	Conductor	3Core Bare Copper wire, 18AWG flexible
	Insulation	HFFR Core 1: Black, Core 2: Red, Core 3: White
	Screen	Aluminium/Polyester 100% Coverage
	Drain Wire	Tinned Copper wire
	Rip cord	Nylon yarn
	Sheath Material	Flame-Retardant Halogen Free (HFFR/LSZH) Standard colour: Purple
Overall	Cabling	Cabling two components together with filler and PET Tape
	Rip cord	Nylon yarn
	Sheath Material	Flame-Retardant Halogen Free (HFFR/LSZH) 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.

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Physical Characteristics

Part Number	C5000	
Component	1	2
No of cores	3	3
Conductor Size	12AWG (19 x 25)	18AWG (7 x 26)
Nom. Diameter Conductor	2.3	1.2
Nom. Radial Thickness Insulation (mm)	0.30	0.25
Nom. Radial Thickness Inner Sheath (mm)	0.6	0.6
Nom. Drain wire Diameter(mm)	7*0.32	7*0.20
Nom. Inner sheath Diameter (mm)	7.7	5.0
Nom. Radial Thickness Outer Sheath (mm)	0.8	
Nom. Overall Diameter (mm)	14.4	
Operating Temperature range (℃)	-25 / +75	
Max. Recommended Pulling Tension （N）	1350	
Min. Bend Radius (install) (mm)	144	
Nominal Cable Weight (kg/km)	216	

Electrical Characteristics

Part Number	C5000	
Component	1	2
Max. DC Resistance Conductor (Ω/km)	5.61	22.7
Max. DC Resistance Screen (Ω/km)	78.5	78.5
Capacitance conductor to conductor (Pf/m)	190	150
Capacitance conductor to rest (Pf/m)	345	282
Nominal Inductance (μH/m)	0.5	0.5
Max. Recommended Current at 25°C （Amps）	12	5
Max. Operating Voltage （Vrms）	300	300

Reference Standards

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