

# Audio, Control & Instrumentation Cable

## 2 to 12pr, 18AWG Overall Screened – HFFR/LSZH Sheath

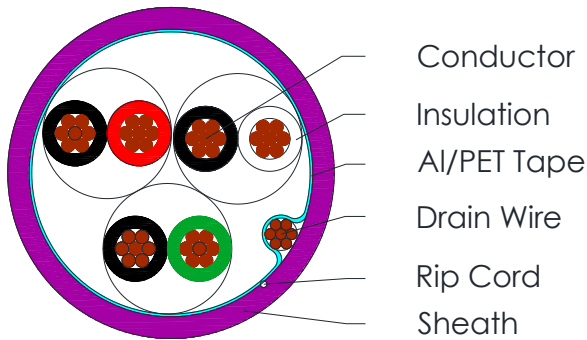


C5002, C5003, C5004, C5005, C5006, C5007, C5008, C5009, C5010, C5011

### Applications

Overall screened paired cables suitable for Security and Alarm systems, Audio, Control and Instrumentation

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Bare Copper wires
Insulation	Polyethylene Pair 1: Black/Red Pair 2: Black/White Pair 3: Black/Green Pair 4: Black/Blue Pair 5: Black/Yellow Pair 6: Black/Brown Pair 7: Black/Orange Pair 8: Black/Purple Pair 9: Black/Grey Pair 10: Black/Pink Pair 11: Black/Tan Pair 12: Black/Turquoise
Pair	two twisted wires
Cable Core	N pairs stranded
Drain Wire	Tinned Copper Wire
Overall Screen	Aluminium/Polyester foil
Rip Cord	Nylon Yarn
Sheath Material	Halogen Free Flame Retardancy(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.

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### Physical Characteristics

Part Number	C5002	C5003	C5004	C5005	C5006	C5007	C5008	C5009	C5010	C5011
No. of Pairs	2	3	4	5	6	7	8	9	10	12
Nom. Diameter Conductor (AWG)	18 (7 x26)									
Nom. Radial Thickness Insulation (mm)	0.25									
Drain wire size (AWG)	24AWG (7 x32)									
Coverage of screen (%)	115									
Nom. Radial Thickness Sheath (mm)	0.45	0.45	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8
Nom. Overall Diameter (mm)	6.8	7.5	8.2	8.7	9.6	10.3	11.3	11.8	12.4	13.5
Operating Temperature (°C)	-20°C to +70°C									
Max. Recommended Pulling Tension (N)	400	575	735	995	1154	1387	1594	1810	2015	2375
Min. Bend Radius (install) (mm)	62	74	82	87	96	103	113	118	124	135
Nominal Cable Weight (kg/km)	51.3	69.5	88.0	110.0	134.7	152.3	178.4	200.0	222.1	257.8

### Electrical Characteristics

Part Number	C5002	C5003	C5004	C5005	C5006	C5007	C5008	C5009	C5010	C5011
No. of Pairs	2	3	4	5	6	7	8	9	10	12
Max. Conductor Resistance (Ohm/km)	22.7									
Max. Screen Resistance (Ohm/km)	78.5									
Capacitance cond to cond at 1KHz (pF/m)	75	75	75	70	70	70	70	70	70	70
Capacitance Cond to rest at 1KHz (pF/m)	145	145	145	140	140	140	130	130	130	130
Test Voltage Conductor to Conductor	2500VDC, 3secs									
Test Voltage Conductor to Screen	2500VDC, 3secs									
Max. Current at 25°C (Amps)	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Operating Voltage (Vrms)	300									

### Reference Standards

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