

Plenum Grade Audio, Control & Instrumentation Cable

2 to 12pr,22AWG Overall Screened – PVC Sheath

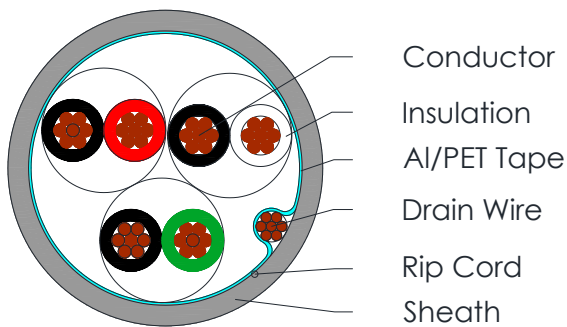


C8648, C8649, C8650, C8651, C8652, C8653, C8654, C8655, C8656, C8658

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	Polyolefin 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	Plenum Grade Flame-Retardant Polyvinyl Chloride (CMP PVC) Standard colour: Grey
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	C8648	C8649	C8650	C8651	C8652	C8653	C8654	C8655	C8656	C8658
No. of Pairs	2	3	4	5	6	7	8	9	10	12
Nom. Diameter Conductor (AWG)	22 (7 x30)									
Nom. Radial Thickness Insulation (mm)	0.30									
Drain wire size (AWG)	24AWG (7 x32)									
Coverage of screen (%)	115									
Nom. Radial Thickness Sheath (mm)	0.45									
Nom. Overall Diameter (mm)	5.7	6.5	7.1	7.8	8.2	8.6	9.3	10.3	11.0	11.5
Operating Temperature (°C)	-25°C to +75°C									
Max. Recommended Pulling Tension (N)	186	267	348	430	510	600	686	770	856	1027
Min. Bend Radius (install) (mm)	57	65	71	78	82	86	93	103	110	115
Nominal Cable Weight (kg/km)	25.3	32.7	41.6	55.0	65.5	72.2	84.0	93.1	106.3	126.3

Electrical Characteristics

Part Number	C8648	C8649	C8650	C8651	C8652	C8653	C8654	C8655	C8656	C8658
No. of Pairs	2	3	4	5	6	7	8	9	10	12
Max. Conductor Resistance (Ohm/km)	57.4									
Max. Screen Resistance (Ohm/km)	78.5									
Capacitance cond to cond (pF/m)	79	79	79	84	84	84	84	84	90	90
Capacitance Cond to rest (pF/m)	142	142	142	153	153	153	153	153	160	160
Max. Current at 25°C (Amps)	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Operating Voltage (Vrms)	300									

Reference Standards

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