

Audio Control & Instrumentation Cable

1 pr 22 to 12AWG, Overall Screen, PVC Sheath

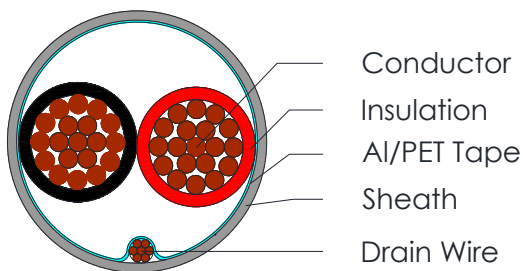


C4645, C4646, C4647, C4648, C4649, C4650

Applications

Screened one pair cable suitable for Audio Control, Instrumentation and Building Management Systems (BMS)

Cross Section Drawing



Design

Unit	Properties
Conductor	Tinned Copper Wires
Insulation	Polyvinyl Chloride (PVC) Core 1: Black Core 2: Red
Pair	Two wires twisted together
Screen	Aluminium/Polyester 100% Coverage
Drain wire	24 AWG (7 x 32) Tinned Copper wire
Sheath Material	Flame-Retardant Polyvinyl Chloride (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	C4645	C4646	C4647	C4648	C4649	C4650
Number of pairs	1					
Conductor size (AWG)	22	20	18	16	14	12
Conductor stranding (AWG)	7x30	7x28	7x26	19x29	19x27	19 x 25
Nom. Radial Thickness Insulation (mm)	0.4	0.5	0.5	0.8	0.8	0.8
Nom. Insulation diameter (mm)	1.54	1.73	2.16	3.02	3.42	3.95
Nom. Radial Thickness Sheath (mm)	0.6	0.6	0.7	0.8	0.9	0.9
Nom. Overall Diameter (mm)	4.4	4.8	5.8	7.9	9.0	9.8
Operating Temperature (°C)	-30 to 80					
Max. Recommended Pulling Tension (N)	80	110	200	270	420	665
Min. Bend Radius (install) (mm)	44	48	58	79	90	102
Nominal Cable Weight (kg/km)	24	29	43	65	90	122

Electrical Characteristics

Part Number	C4645	C4646	C4647	C4648	C4649	C4650
Conductor AWG size (AWG)	22	20	18	16	14	12
Impedance (Ω)	36	40	45	45	45	45
Max. DC Resistance Conductor (Ω /km)	52.7	35.75	21.7	14.7	9.5	5.61
Max. DC Resistance Screen (Ω /km)	78.5					
Capacitance conductor to conductor (pF/m)	75	75	75	76	76	80
Capacitance cond. To other cond.+screen (pF/m)	108	120	120	120	120	120
Max. Recommended Current at 25°C (Amps)	2.9	3.9	5.2	7.1	9.5	13
Max. Operating Voltage (Vrms)	300	300	300	600	600	600

Reference Standards

(BS) EN 50290-2
IEC 60228
IEC 60332-1
UL1581
RoHS directives