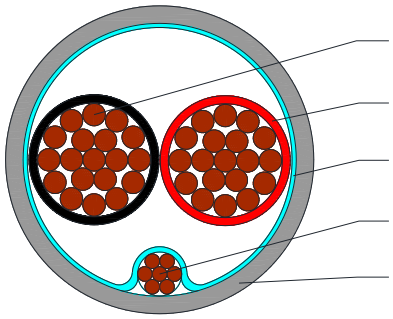
Audio Control & Instrumentation Cable, High Conductivity Speaker Cable 22 to 10 AWG, Screened, PVC Sheath

C4818, C4819, C4820, C4821, C4822, C4823, C4824

Applications

One pair cable Suitable for Audio, Control and Instrumentation

Cross Section Drawing



Design

Unit	Properties
Conductor	Tinned Copper wire, one twisted pair
Insulation	Polyvinyl Chloride (PVC) Core 1: Black Core 2: Red
Screen	AL/PET Tape
Drain Wire	Tinned Copper Wire
Sheath Material	Flame Retardant Polyvinyl Chloride (PVC) Standard colour: Grey
Standard Put Up Length	305 or 500 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	C4818	C4819	C4820	C4821	C4822	C4823	C4824
Number of pairs	1						
Conductor size	10	12	14	16	18	20	22
Conductor stranding (AWG)	65x28	19x25	19x27	19x29	7x26	7x28	7x30
Nom. Radial Thickness Insulation (mm)	0.80	0.8	0.8	0.8	0.5	0.4	0.4
Screen Coverage (%)	115						
Drain Wire Size (AWG)	7x32						
Nom. Radial Thickness Sheath (mm)	0.9	0.9	0.9	0.8	0.7	0.6	0.6
Nom. Overall Diameter(mm)	10.9	9.8	8.8	7.8	5.9	4.8	4.4
Operating Temperature (°C)	-30 / +80						
Max. Recommended Pulling Tension (N)	880	725	460	310	240	150	122
Min. Bend Radius (install) (mm)	109	98	88	78	59	48	44
Nominal Cable Weight (kg/km)	158	118	88	63	41	26	21.5

Electrical Characteristics

Part Number	C4818	C4819	C4820	C4821	C4822	C4823	C4824
AWG size conductor	10	12	14	16	18	20	22
Max. DC Resistance Conductor (Ω/km)	3.90	5.61	9.36	15.47	22.7	35.75	57.4
Max. DC Resistance Screen (Ω/km)	78.5						
Capacitance conductor to conductor (pF/m)	165	165	165	160	160	160	160
Capacitance conductor to rest (pF/m)	300	300	300	295	295	295	295
Nominal Inductance (µH/m)	0.6						
Max. Recommended Current at 25°C (Amps)	18	13	9.5	7.1	5.2	3.9	3.0
Max. Operating Voltage (Vrms)	600	600	600	300	300	300	300

Reference Standards

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