

Audio Control & Instrumentation Cable, 2C to 60C, 16AWG Overall Screen, HFFR/LSZH Sheath

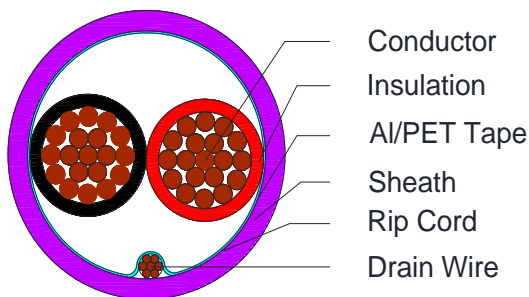


C1711, C1713, C1715, C1717, C1719, C5170, C5171, C5172, C5173, C5174, C5175, C5804

Applications

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

Cross Section Drawing



Design

Unit	Properties
Conductor	N x Bare Copper wire, 16AWG flexible
Insulation	HFFR/LSZH Core 1: Black Core 2: Red Core 3: White Core 4: Green Core 5: Brown Core 6: Blue Core 7: Orange Core 8: Yellow Core 9: Purple Core 10: Grey Core 11: Pink Core 12: Tan For cores more than 12, Black with White serial numbers
Drain Wire	24 AWG (7 x 32) Tinned Copper
Screen	Aluminium/Polyester 100% Coverage
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	C1711	C1713	C1715	C1717	C1719	C5804	C5170	C5171	C5172	C5173	C5174	C5175
No of cores x 16AWG (19 x 29)	2	3	4	6	8	10	12	16	24	32	42	60
Nom. Diameter Conductor (mm)	1.4											
Nom. Radial Thickness Insulation (mm)	0.25											
Nom. Radial Thickness Sheath(mm)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.7	0.8	0.9	1.0	1.1
Nom. Overall Diameter (mm)	5.3	5.5	6.0	7.1	7.7	8.5	9.3	10.7	13.1	14.6	17.3	19.4
Operating Temperature (°C)	-25 / +75											
Max. Recommended Pulling Tension (N)	260	390	520	780	1040	1300	1560	2080	3120	4160	5460	7800
Min. Bend Radius (install) (mm)	53	55	60	71	77	85	93	104	131	146	173	194
Nominal Cable Weight (kg/km)	45.4	59.2	73.6	102.6	130.4	158	186	236	353	465	610	856

Electrical Characteristics

Part Number	C1711	C1713	C1715	C1717	C1719	C5804	C5170	C5171	C5172	C5173	C5174	C5175
No of cores x 16AWG (19 x 29)	2	3	4	6	8	10	12	16	24	32	42	60
Max. DC Resistance Conductor (Ω /km)	15.47											
Max. DC Resistance Screen (Ω /km)	78.5											
Capacitance conductor to conductor (pF/m)	170	168	165	150	146	135	135	130	125	124	124	124
Capacitance conductor to the rest (pF/m)	308	300	300	275	275	265	265	260	250	250	250	250
Nominal Inductance (μ H/m)	0.5											
Max. Recom. Current @ 25°C (Amps)	6.25	6.25	5.0	4.35	4.35	4.0	4.0	3.5	3.0	2.0	1.0	1.0
Max. Operating Voltage (Vrms)	300											

Reference Standards

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