

Low Capacitance RS-485 Computer Cables 18AWG, Overall Screen, HFFR/LSZH Sheath

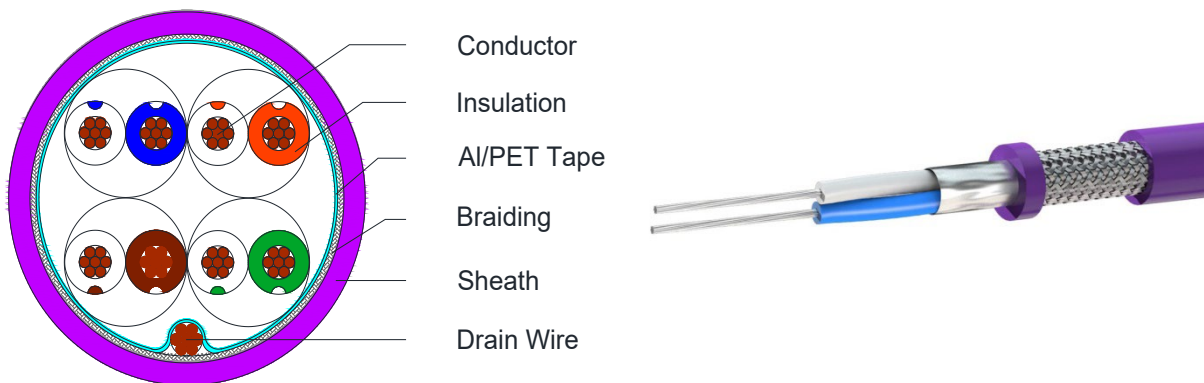


CI 405, CI 406, CI 407, CI 408, C5748

Applications

Building Management Systems (BMS), Access Control, Instrumentation

Cross Section Drawing



Design

Unit	Properties
Conductor	Tinned Copper wire, flexible
Insulation	Foam PE Pair 1: WHITE/Blue + BLUE/White Pair 2: WHITE/Orange + ORANGE/White Pair 3: WHITE/Green + GREEN/White Pair 4: WHITE/Brown + BROWN/White Color code for C5748 Pair 1: WHITE/Orange + ORANGE/White Core 1: BLUE/White
Cabling	N Pairs twisted together
Screen	Aluminium/Polyester 115% Coverage
Drain Wire	Tinned Copper wire
Braid	Tinned Copper wire
Sheath Material	Halogen Free Flame Retardant (HFFR/LSZH) Standard colour: Purple
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.

Low Capacitance RS-485 Computer Cables 18AWG, Overall Screen, HFFR/LSZH Sheath



C1405, C1406, C1407, C1408, C5748

Physical Characteristics

Part Number	C1405	C5748	C1406	C1407	C1408
Number of pairs	1	1.5	2	3	4
Conductor Gauge (AWG)	18				
Conductor configuration (AWG)	7 x 26				
Nom. Radial Thickness Insulation (mm)	1.0	1.0	0.95	0.95	0.95
Drain Wire Size (AWG)	24(7 x 32)				
Coverage braid (%)	65				
Nom. Radial Thickness Sheath (mm)	0.8				
Nom. Overall Diameter (mm)	9.0	10.5	11.5	13.0	14.6
Operating Temperature (°C)	-25 / +75				
Max. Pulling Tension (N)	350	400	460	520	585
Min. Bend Radius (install) (mm)	90	105	115	130	146
Nominal Cable Weight (kg/km)	81	104	128	169	209

Electrical Characteristics

Part Number	C1405	C5748	C1406	C1407	C1408
No of pairs	1	1.5	2	3	4
Max. DC Resistance Conductor (Ω /km)	22.7				
Max. DC Resistance Screen (Ω /km)	20				
Nominal Impedance (Ω)	120				
Capacitance core to core (pF/m)	32	32	35	38	38
Capacitance core to rest (pF/m)	70	70	66	69	69
Nom. Attenuation at 1 MHz (dB/100m)	1.30				
Max. Recom. Current @ 25°C (Amps)	5	5	4	3.5	3.5
Max. Operating Voltage (Vrms)	300				

Reference Standards

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