

# Low Capacitance RS-485 Computer Cables

## 18AWG, Overall Screen, HFFR Sheath

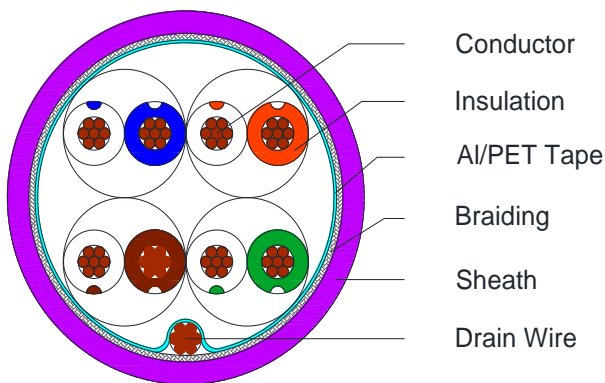


CI 405, CI 406, CI 407, CI 408

### 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
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) 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

## I 8AWG, Overall Screen, HFFR Sheath



**C1405, C1406, C1407, C1408**

### Physical Characteristics

Part Number	C1405	C1406	C1407	C1408
Number of pairs	1	2	3	4
Conductor Gauge (AWG)	18			
Conductor configuration (AWG)	7 x 26			
Nom. Radial Thickness Insulation (mm)	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	11.5	13.0	14.6
Operating Temperature (°C)	-25 / +75			
Max. Pulling Tension (N)	350	460	520	585
Min. Bend Radius (install) (mm)	90	115	130	146
Nominal Cable Weight (kg/km)	81	128	169	209

### Electrical Characteristics

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