

# Low Capacitance RS-485 Computer Cables

## 22AWG Overall Screen, HFFR Sheath

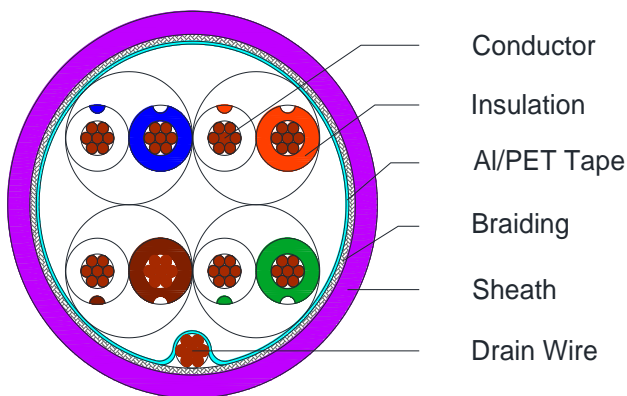


CI401, CI402, CI403, CI404

### 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.

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## 22AWG Overall Screen, HFFR Sheath



**C1401, C1402, C1403, C1404**

### Physical Characteristics

Part Number	C1401	C1402	C1403	C1404
Number of pairs	1	2	3	4
Conductor Gauge (AWG)	22			
Conductor configuration (AWG)	7 x 30			
Nom. Radial Thickness Insulation (mm)	0.6			
Drain Wire Size (AWG)	24(7 x 32)			
Coverage braid (%)	65			
Nom. Radial Thickness Sheath (mm)	0.8			
Nom. Overall Diameter (mm)	6.1	8.0	9.3	10.3
Operating Temperature (°C)	-25 / +75			
Max. Pulling Tension (N)	265	355	400	445
Min. Bend Radius (install) (mm)	60	80	95	105
Nominal Cable Weight (kg/km)	46.7	76.7	97	119.1

### Electrical Characteristics

Part Number	C1401	C1402	C1403	C1404
No of pairs	1	2	3	4
Max. DC Resistance Conductor ( $\Omega$ /km)	57.4			
Max. DC Resistance Screen ( $\Omega$ /km)	20			
Nominal Impedance ( $\Omega$ )	120			
Capacitance core to core (pF/m)	34	35	38	38
Capacitance core to rest (pF/m)	65	66	69	69
Nom. Attenuation at 1 MHz (dB/100m)	2.05			
Max. Recom. Current @ 25°C (Amps)	2.7			
Max. Operating Voltage (Vrms)	300			

### Reference Standards

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