

# Low Capacitance RS-485 Computer Cables

## I TO 5PR, 24AWG, Overall Screen, HFFR/LSZH Sheath

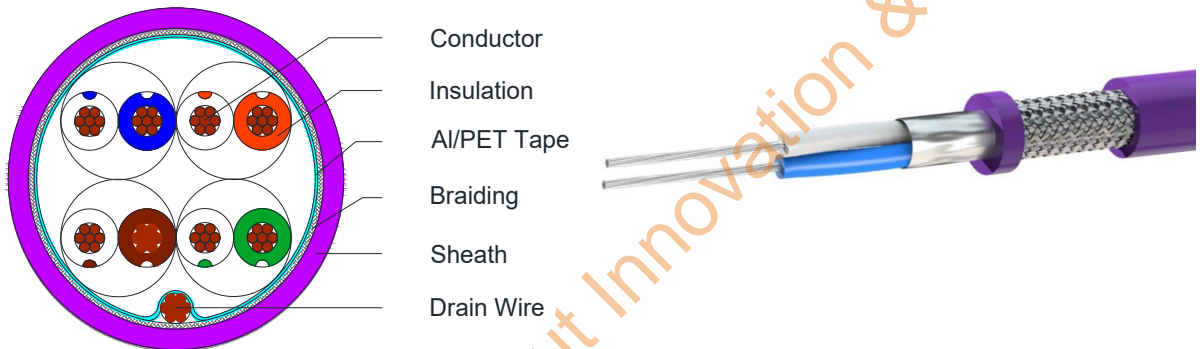


C1318, C1319, C1320, C1321, C5214

### Applications

Building Management Systems (BMS), EIA RS-485 Applications

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Tinned Copper wire, flexible
Insulation	Polyethylene (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 Pair 5: WHITE/Grey + GREY/White
Cabling	N pairs twisted together
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	Tinned Copper wire
Braiding	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.

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### Physical Characteristics

Part Number	C1318	C1319	C1320	C1321	C5214
Number of Pairs	1	2	3	4	5
Conductor configuration (AWG)	24 (7 x 32)				
Nom. Radial Thickness Insulation (mm)	0.6				
Drain Wire size (AWG)	24 (7 x 32)				
Coverage braid (%)	90				
Nom. Radial Thickness Sheath (mm)	0.8				
Nom. Overall Diameter (mm)	5.9	7.8	8.6	9.3	10.4
Operating Temperature (°C)	-25 / +75				
Max. Pulling Tension (N)	320	385	460	485	766
Min. Bend Radius (install) (mm)	59	78	86	93	104
Nominal Cable Weight (kg/km)	49	80.5	92.6	114.4	143.2

### Electrical Characteristics

Part Number	C1318	C1319	C1320	C1321	C5214
Nom. DC Resistance Conductor ( $\Omega$ /km)	88				
Nom. DC Resistance Screen ( $\Omega$ /km)	15				
Nominal Impedance ( $\Omega$ )	120				
Capacitance core to core (pF/m)	32	40	43	43	43
Capacitance core to rest (pF/m)	70	85	87	87	87
Nom. Attenuation at 1 MHz (dB/100m)	2.6				
Nom. Velocity of Propagation (%)	66				
Max. Recom. Current @ 25°C (Amps)	2.1	2.1	1.54	1.54	1.54
Max. Operating Voltage (Vrms)	300				

### Reference Standards

(BS)EN 50290-2
IEC 60228
IEC 60332-3-24, IEC 61034
IEC 60754-1 & 2
UL 1685
RoHS directives