

Low Capacitance RS-485 Computer Cables

24AWG, Overall Screen, HFFR Sheath

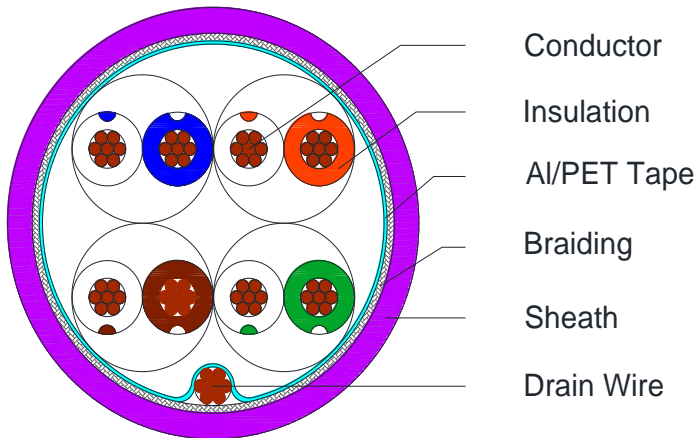


C1318, C1319, C1320, C1321

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 |
| 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) 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 |
|---------------------------------------|-------------|-------|-------|-------|
| Conductor Gauge (AWG) | 1 | 2 | 3 | 4 |
| 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 |
| Operating Temperature (°C) | -25 / +75 | | | |
| Max. Pulling Tension (N) | 320 | 385 | 460 | 485 |
| Min. Bend Radius (install) (mm) | 59 | 78 | 86 | 93 |
| Nominal Cable Weight (kg/km) | 49 | 80.5 | 92.6 | 114.4 |

Electrical Characteristics

| Part Number | C1318 | C1319 | C1320 | C1321 |
|--|-------|-------|-------|-------|
| Nom. DC Resistance Conductor (Ω /km) | 88 | | | |
| Nom. DC Resistance Screen (Ω /km) | 15 | | | |
| Nominal Impedance (Ω) | 120 | | | |
| Capacitance core to core (pF/m) | 32 | 40 | 43 | 43 |
| Capacitance core to rest (pF/m) | 70 | 85 | 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 |
| Max. Operating Voltage (Vrms) | 300 | | | |

Reference Standards

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