

Low Capacitance RS-485 Computer Cables 22AWG Overall Screen, Plenum Rated PVC Sheath

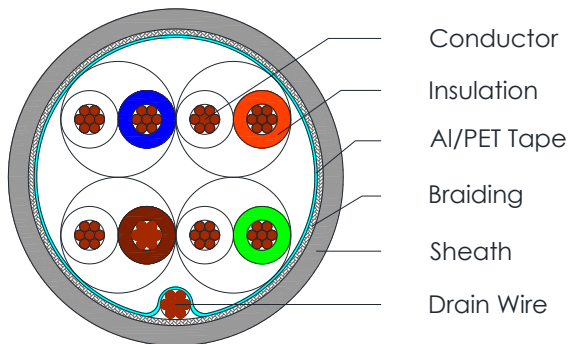


C8401, C8639, C8402, C8403, C8404

Applications

Plenum Rated cable used for Building Management Systems (BMS), Access Control, Instrumentation

Cross Section Drawing



Design

| Unit | Properties |
|------------------------|--|
| Conductor | Tinned Copper wire, flexible |
| Insulation | Foam FEP Pair 1: WHITE + BLUE Pair 2: WHITE + ORANGE Pair 3: WHITE + GREEN Pair 4: WHITE + BROWN Color code for C8639 Pair 1: WHITE + ORANGE Core 1: BLUE |
| Cabling | N Pairs twisted together |
| Screen | Aluminium/Polyester 115% Coverage |
| Drain Wire | Tinned Copper wire |
| Braid | Tinned Copper wire |
| Sheath Material | Plenum Grade Flame-Retardant Polyvinyl Chloride (PVC) Standard colour: Grey |
| 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

22AWG Overall Screen, Plenum Rated PVC Sheath



C8401, C8639, C8402, C8403, C8404

Physical Characteristics

| Part Number | C8401 | C8639 | C8402 | C8403 | C8404 |
|---------------------------------------|------------|-------|-------|-------|-------|
| Number of pairs | 1 | 1.5 | 2 | 3 | 4 |
| Conductor Gauge (AWG) | 22 | | | | |
| Conductor configuration (AWG) | 7 x 30 | | | | |
| Nom. Radial Thickness Insulation (mm) | 0.65 | | | | |
| Drain Wire Size (AWG) | 24(7 x 32) | | | | |
| Coverage braid (%) | 65 | | | | |
| Nom. Radial Thickness Sheath (mm) | 0.65 | | | | |
| Nom. Overall Diameter (mm) | 6.1 | 7.8 | 8.1 | 9.3 | 10.0 |
| Operating Temperature (°C) | 0 / +60 | | | | |
| Max. Pulling Tension (N) | 265 | 289 | 355 | 400 | 445 |
| Min. Bend Radius (install) (mm) | 60 | 76 | 80 | 95 | 105 |
| Nominal Cable Weight (kg/km) | 46.7 | 70.0 | 76.7 | 97 | 119.1 |

Electrical Characteristics

| Part Number | C8401 | C8639 | C8402 | C8403 | C8404 |
|--|-------|-------|-------|-------|-------|
| No of pairs | 1 | 1.5 | 2 | 3 | 4 |
| Max. DC Resistance Conductor (Ω /km) | 57.4 | | | | |
| Max. DC Resistance Screen (Ω /km) | 20 | | | | |
| Nominal Impedance (Ω) | 120 | | | | |
| Capacitance core to core (pF/m) | 34 | 36 | 35 | 38 | 38 |
| Capacitance core to rest (pF/m) | 65 | 69 | 66 | 69 | 69 |
| Nom. Attenuation at 1 MHz (dB/100m) | 2.20 | | | | |
| Max. Recom. Current @ 25°C (Amps) | 2.7 | | | | |
| Max. Operating Voltage (Vrms) | 300 | | | | |

Reference Standards

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| (BS)EN 50290-2 |
| IEC 60228 |
| NFC 725.154(A), ANSI/NFPA 262 |
| RoHS directives |