

# Low Capacitance RS-485 Computer Cables

## I quad, 24AWG, Overall Screen, HFFR/LSZH Sheath



C15335

### Applications

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

### Design

Unit	Properties
Conductor	Tinned Copper wire, flexible
Insulation	Polyethylene (PE) Quad 1: Black, Red, White, Green
Cabling	4 wires twisted together as a quad
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.

### Physical Characteristics

Part Number	C15335
Number of quad	1
Conductor configuration (AWG)	24 (7 x 32)
Nom. Radial Thickness Insulation (mm)	0.6
Drain Wire size (AWG)	24 (7 x 32)
Coverage braid (%)	95
Nom. Radial Thickness Sheath (mm)	0.8
Nom. Overall Diameter (mm)	6.0
Operating Temperature (°C)	-25 / +75
Max. Pulling Tension (N)	385
Min. Bend Radius (install) (mm)	60
Nominal Cable Weight (kg/km)	80.5

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### Electrical Characteristics

Part Number	C15335
Nom. DC Resistance Conductor ( $\Omega$ /km)	88
Nom. DC Resistance Screen ( $\Omega$ /km)	15
Nominal Impedance ( $\Omega$ )	120
Capacitance core to core (pF/m)	40
Capacitance core to rest (pF/m)	85
Nom. Attenuation at 1 MHz (dB/100m)	2.6
Nom. Velocity of Propagation (%)	66
Max. Recom. Current @ 25°C (Amps)	2.1
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