

# Low Capacitance RS-485 Computer Cables

## 24AWG, Shielded, SWA Armour with HFFR-LSZH Sheath

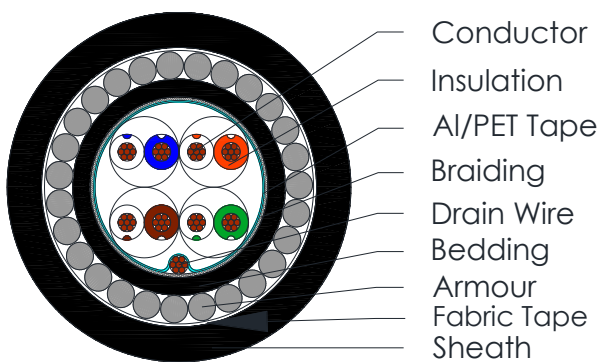


C5030

### Applications

Computer Cables used for EIA RS-485 applications.

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Tinned Copper wire, flexible
Insulation	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	two twisted wires
Cable Core	N pairs stranded
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	Tinned Copper 24AWG (7 x 32)
Braid	Tinned Copper Wire
Bedding	Halogen Free Fire Resistant (HFFR-LSZH) Colour: Black
Armour	Galvanized Steel Wire
Wrapping	Fabric Tape
Sheath Material	Halogen Free Fire Resistant (HFFR-LSZH) Standard Color: Black
Standard Put Up Length	305 or 500 metres

\*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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### C5030

#### Physical Characteristics

Part Number	C5030
No of pairs	4
Conductor configuration (AMG)	24(7 x 32)
Nom. Insulation Diameter (mm)	1.73
Coverage braid (%)	90
Nom. Radial Thickness Bedding (mm)	0.90
Nom. Bedding Diameter (mm)	9.90
Nom. Steel Wire Diameter (mm)	1.25
Min. Armouring Coverage (%)	95
Nom. Radial Thickness Sheath (mm)	1.35
Nom. Overall Diameter (mm)	15.40
Operating Temperature (°C)	-15 to 80
Min. Bend Radius (install) (mm)	225

#### Electrical Characteristics

Part Number	C5030
No of pairs	4
Nom. DC Resistance Conductor ( $\Omega$ /km)	78.7
Nom. DC Resistance Screen ( $\Omega$ /km)	6.9
Nominal Impedance ( $\Omega$ )	120
Capacitance core to core (pF/m)	42
Capacitance core to rest (pF/m)	76
Max. Attenuation at 1 MHz (dB/100m)	2.6
Nom. Velocity of Propagation (%)	66
Nom. Delay (ns/m)	5.2
Test Voltage Conductor to Conductor for 3secs (Vdc)	2500
Test Voltage Conductor to Screen for 3secs (Vdc)	2500
Max. Recom. Current @ 25°C (Amps)	2.1
Max. Operating Voltage (Vrms)	300

#### Reference Standards

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