

Low Capacitance RS-485 Computer Cables

2pr 24AWG, Shielded & Armoured with PVC Sheath

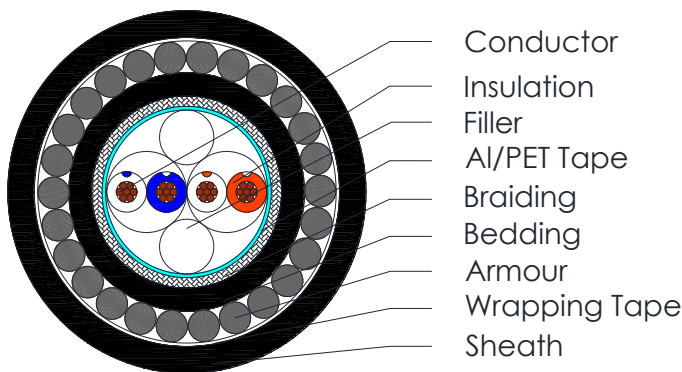


C5078

Applications

Instrumentation and computer cable for EIA RS-485 data transmission applications.

Cross Section Drawing



Design

Unit	Properties
Conductor	Tinned Copper wire, flexible
Insulation	Solid PE Color code Pair 1: WHITE/Blue + BLUE/White Pair 2: WHITE/Orange + ORANGE/White
Pair	two twisted wires
Filler	Polypropylene
Cable Core	2 pairs stranded with Filler
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	Tinned Copper 24AWG (7 x 32)
Braid	Tinned Copper Wire
Bedding	Halogen Free Flame Retardancy (HFFR-LSZH) Color: Black
Armour	Galvanized Steel Wire
Wrapping Tape	Fabric Tape
Sheath Material	Oil resistant Halogen Free Fire Retardancy (HFFR-LSZH) 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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Physical Characteristics

Part Number	C5078
No of pairs	2
Conductor Gauge (AMG)	24(7×32)
Nom. Insulation Diameter(mm)	1.73
Nom. Filler Diameter (mm)	2.87
Nom. Drain Wire Diameter (AWG)	24(7×32)
Nom. Braiding Wire Diameter (mm)	0.122
Coverage braid (%)	90
Nom. Thickness of Bedding (mm)	1.10
Nom. Bedding Diameter (mm)	8.65
Nom. Steel Wire Diameter (mm)	0.90
Min. Armour Coverage (%)	95
Nom. Radial Thickness Sheath (mm)	1.35
Nom. Overall Diameter (mm)	13.10
Operating Temperature (moving installation) (°C)	-15 to +80
Operating Temperature (fixed installation) (°C)	-45 to +80
Min. Bend Radius (install) (mm)	197

Electrical Characteristics

Part Number	C5078
No of pairs	2
Nom. DC Resistance Conductor (Ω /km)	78.7
Nom. DC Resistance Screen (Ω /km)	7.2
Nominal Impedance (Ω)	120
Capacitance core to core (pF/m)	42
Capacitance core to rest (pF/m)	75.5
Nom. Velocity of Propagation (%)	66
Nom. Delay (ns/m)	5.2
Nom. Attenuation at 1 MHz (dB/100m)	1.97
Test Voltage Conductor to Conductor for 3sec (Vdc)	2500
Test Voltage Conductor to Screen for 3sec (Vdc)	2500
Max. Recom. Current @ 25°C (Amps)	2.1
Max. Operating Voltage (Vrms)	300

Reference Standards

(BS) EN 50290-2-27	IEC 61034
IEC 60228	IEC 60754-1&-2
IEC 60332-3-24	Radiation resistance IEC 544 (CERN)
IEC 60811-404	RoHS directives
BS 7655 section 6.1 table 1. LTS 3	