

Low Capacitance RS-485 Computer Cables

22AWG, Shielded, LSZH-HFFR Sheath

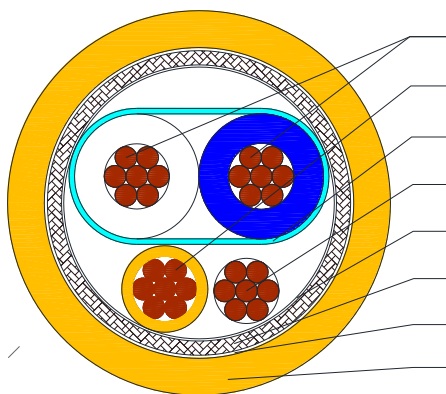


C6007

Applications

Computer Cables used for EIA RS-485 applications.

Cross Section Drawing



- Pair
- Core
- Screen
- Drain Wire
- Binder Tape
- Braiding
- PET Tape
- Sheath

Design

Component	Unit	Properties
Pair	Conductor	Tinned Copper wire, flexible
	Insulation	Foamed Polyethylene Pair 1: WHITE + BLUE
	Pair	two twisted wires
	Screen	Aluminium/Polyester 100% Coverage
	Drain Wire	Tinned Copper
Core	Conductor	Tinned Copper wire, flexible
	Insulation	Polyethylene Core 1: Orange
Overall	Wrapping Tape	Binder Tape
	Braid	Tinned Copper Wire
	Tape	PET tape
	Sheath Material	Low Smoke and Free from Halogen, Oil Resistant elastomer compound Standard Color: Orange
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	C6007	
Unit	Pair	Core
No of pairs/Cores	1	1
Conductor Gauge (AMG)	22	22
Conductor Diameter (mm)	0.75	0.75
Conductor configuration (AMG)	7 x 30	7 x 30
Nom. Insulation Diameter (mm)	2.50	1.40
Drain Wire (AWG)	7 x 30	
Coverage braid (%)	90	
Nom. Radial Thickness Sheath (mm)	0.8	
Nom. Overall Diameter (mm)	7.6	
Operating Temperature (°C)	-40 to +80	
Storage Temperature (°C)	-40 to +80	
Max. Pulling Tension (N)	289	
Min. Bend Radius (install) (mm)	76	
Nominal Cable Weight (kg/km)	69.0	

Electrical Characteristics

Part Number	C6007
No of pairs	1
Max. DC Resistance Conductor (Ω /km)	57.4
Max. DC Resistance Screen (Ω /km)	9.2
Nominal Impedance (Ω)	120
Capacitance core to core (pF/m)	36
Capacitance core to rest (pF/m)	69
Velocity of Propagation (%)	78
Min. Insulation Resistance ($G\Omega$ /km)	10
Max. Operating Voltage (Vrms)	500
Test Voltage (rms 50Hz 1min) (V)	2000

Reference Standards

(IEC 60332-1	(BS)EN 50290-2 (VDE 0819) (HD624.6)
F45052-F5100	EN 60811-404 (7X24h/90°C)
IEC 60754-1	IEC 61034
IEC 60228	RoHS directives