

Low Capacitance RS-485 Computer Cables

24AWG, Shielded, Plenum Rated PVC Sheath

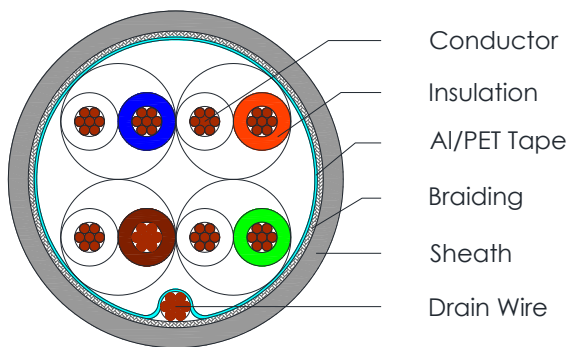


C8189, C8190, C8191, C8192

Applications

Plenum Rated Computer Cables used for EIA RS-485 applications.

Cross Section Drawing



Design

Unit	Properties
Conductor	Tinned Copper wire, flexible
Insulation	Foam or solid FEP Color code Pair 1: WHITE + BLUE Pair 2: WHITE + ORANGE Pair 3: WHITE + GREEN Pair 4: WHITE + BROWN
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
Sheath Material	Plenum Grade Flame-Retardant Polyvinyl Chloride (PVC) Standard colour: Grey
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	C8189	C8190	C8191	C8192
No of pairs	1	2	3	4
Conductor Gauge (AMG)	24			
Conductor configuration (AMG)	7 x 32			
Insulation material	FFEP	FEP	FEP	FEP
Nom. Radial Thickness Insulation (mm)	0.55	0.55	0.55	0.55
Coverage braid (%)	90			
Nom. Radial Thickness Sheath (mm)	0.65			
Nom. Overall Diameter (mm)	5.6	7.7	8.3	9.0
Operating Temperature (°C)	-25 / +75			
Max. Pulling Tension (N)	320	385	460	485
Min. Bend Radius (install) (mm)	56	77	83	90
Nominal Cable Weight (kg/km)	47	76.5	86.6	106.4

Electrical Characteristics

Part Number	C8189	C8190	C8191	C8192
No of pairs	1	2	3	4
Max. DC Resistance Conductor (Ω /km)	88			
Max. DC Resistance Screen (Ω /km)	15			
Nominal Impedance (Ω)	120			
Capacitance core to core (pF/m)	32	42	42	45
Capacitance core to rest (pF/m)	70	80	80	90
Nom. Attenuation at 1 MHz (dB/100m)	2.6			
Max. Recom. Current @ 25°C (Amps)	2.1	2.1	1.54	1.54
Max. Operating Voltage (Vrms)	300			

Reference Standards

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