Low Capacitance RS-485 Computer Cables

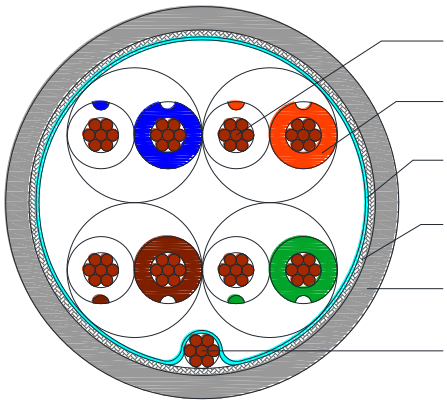
22 & 24AWG, Shielded, FR-PVC Sheath

C1080, C1444, C1295, C1296, C1297, C1189, C1190, C1191, C1192

Applications

Computer Cables used for EIA RS-485 applications.

Cross Section Drawing



Design

Unit	Properties
Conductor	Tinned Copper wire, flexible
Insulation	Foam or solid PE Color code Pair 1: WHITE/Blue + BLUE/White Pair 2: WHITE/Orange + ORANGE/White Pair 3: WHITE/Green + GREEN/White Pair 4: WHITE/Brown + BROWN/White Color code for C1444 Pair 1: WHITE/Orange + ORANGE/White Core 1: BLUE/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
Sheath Material	Flame Retardant Polyvinyl Chloride (PVC) Standard Color: 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	C1080	C1444	C1295	C1296	C1297	C1189	C1190	C1191	C1192
No of pairs	1	1.5	2	3	4	1	2	3	4
Conductor Gauge (AMG)	22					24			
Conductor configuration (AMG)	7 x 30					7 x 32			
Insulation material	FPE	FPE	FPE	FPE	FPE	FPE	PE	PE	PE
Nom. Radial Thickness Insulation (mm)	0.6	0.6	0.5	0.5	0.5	0.55	0.55	0.55	0.55
Coverage braid (%)	65					90			
Nom. Radial Thickness Sheath (mm)	0.8								
Nom. Overall Diameter (mm)	6.1	7.6	8.5	9.0	10.3	5.9	8.0	8.6	9.3
Operating Temperature (°C)	-25 / +75								
Max. Pulling Tension (N)	265	289	355	400	445	320	385	460	485
Min. Bend Radius (install) (mm)	60	76	85	95	105	60	85	90	100
Nominal Cable Weight (kg/km)	63.7	70.0	75.6	97	119.1	49	80.5	92.6	114.4

Electrical Characteristics

Part Number	C1080	C1444	C1295	C1296	C1297	C1189	C1190	C1191	C1192
No of pairs	1	1.5	2	3	4	1	2	3	4
Max. DC Resistance Conductor (Ω/km)	57.4					88			
Max. DC Resistance Screen (Ω/km)	20					15			
Nominal Impedance (Ω)	120								
Capacitance core to core (pF/m)	36	36	37	38	38	32	42	42	45
Capacitance core to rest (pF/m)	69	69	69	69	69	70	80	80	90
Nom. Attenuation at 1 MHz (dB/100m)	2.05					2.6			
Max. Recom. Current @ 25°C (Amps)	2.7	2.7	2.7	2.7	2.7	2.1	2.1	1.54	1.54
Max. Operating Voltage (Vrms)	300								

Reference Standards

IEC 60332-1-2 & IEC 60332-1-3	(BS)EN 50290-2
IEC 60228	UL 1581
RoHS directives	