

Low Capacitance RS-485 Computer Cables

22 & 24AWG, Shielded, PVC Sheath

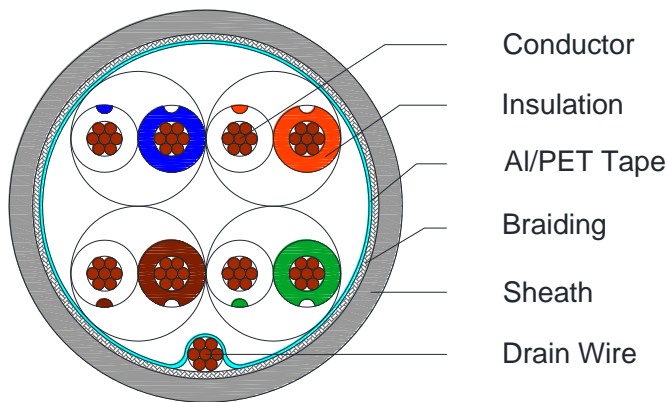


C14035, C14036, C14037, C14038, C14039, C14040, C14041, C14042, C14043

Applications

Harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.

Cross Section Drawing



Design

Unit	Properties
Conductor	Tinned Copper wire, flexible
Insulation	Foam or solid PE Color code (stripe) 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
Filler (if applicable)	Cotton cord
Cable Core	N pairs stranded
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	Tinned Copper 22AWG (7 x 30)
Braid	Tinned Copper Wire
Sheath Material	UV&Oil Resistant Flame Retardant Polyvinyl Chloride (PVC) 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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Physical Characteristics

Part Number	C14035	C14036	C14037	C14038	C14039	C14040	C14041	C14042	C14043
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)	0.74	0.74	0.74	0.74	0.74	0.55	0.55	0.55	0.55
Nom. Insulation Diameter (mm)	2.2	2.2	2.2	2.2	2.2				
Coverage braid (%)	65					90			
Nom. Radial Thickness Sheath (mm)	0.8								
Nom. Overall Diameter (mm)	7.1	8.6	9.5	10.0	11.3	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)	71	86	95	100	113	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	C14035	C14036	C14037	C14038	C14039	C14040	C14041	C14042	C14043
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 60228	(BS)EN 50290-2
RoHS directives	UL 1581 CM