

Low Capacitance RS-485 Computer Cables

22 & 24AWG, Shielded and Armoured, LSF Sheath

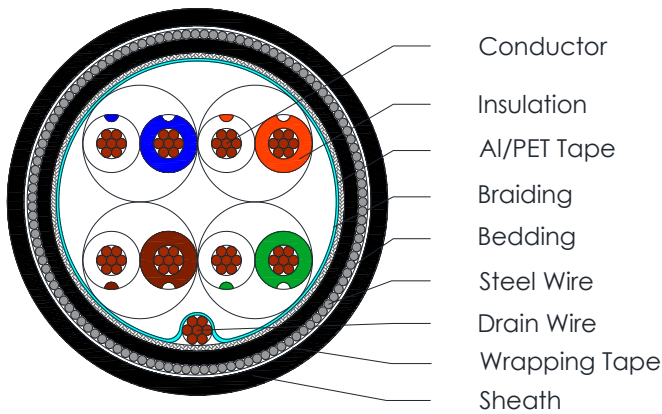


C4218, C4219, C4220, C4221, C4222, C4223, C4224, C4225, C4226

Applications

Armoured 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
Filler	Optional
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	Tinned Copper 24AWG (7 x 32)
Braid	Tinned Copper Wire
Bedding	LSF
SWA	Galvanized Steel Wire
Wrapping Tape	Fabric Tape
Sheath Material	LSF 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	C4218	C4219	C4220	C4221	C4222	C4223	C4224	C4225	C4226
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)	0.63	0.63	0.58	0.58	0.58	0.60	0.63	0.63	0.63
Coverage braid (%)	65					90			
Nom. Radial Thickness Bedding (mm)	0.80	0.80	0.80	1.00	1.00	0.80	0.80	1.00	1.00
Steel Wire Diameter (mm)	0.90								
Nom. Radial Thickness Sheath (mm)	1.1	1.1	1.2	1.3	1.3	1.1	1.2	1.2	1.3
Nom. Overall Diameter (mm)	10.4	11.1	12.4	14.2	15.1	10.2	12.4	13.9	15.0
Operating Temperature (°C)	-25 / +75								
Nominal Cable Weight (kg/km)	214	233	273	327	364	194	268	303	357

Electrical Characteristics

Part Number	C4218	C4219	C4220	C4221	C4222	C4223	C4224	C4225	C4226
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
IEC 60332-1	RoHS directives