

BCC BMS-Tec™ - Low Capacitance RS-485 Computer Cables

1 – 2 – 3 or 4 pairs

AWG 24, Flexible Tinned Copper, Overall Screen, HFFR Sheath

BCC Cables Part No: C1318– C1319 – C1320 – C1321



Applications

Building Management Systems (BMS), RS-485 Applications

Sector

BCC BMS-TEC™

Standard References

IEC 60332-3-24

IEC 61034

IEC 60754-1 & 2

RoHS directives

(BS)EN 50290

Design

1. Conductor

Tinned Copper wire, flexible

2. Insulation

Polyethylene (PE)

Core 1: White with blue stripe

Core 2: Blue with white stripe

Core 3: White with orange stripe

Core 4: Orange with white stripe

Core 5: White with green stripe

Core 6: Green with white stripe

Core 7: White with brown stripe

Core 8: Brown with white stripe

3. Cabling

Pair 1: wire 1 x wire 2 twisted

Pair 2: wire 3 x wire 4 twisted

Pair 3: wire 5 x wire 6 twisted

Pair 4: wire 6 x wire 8 twisted

Cable core: N pairs twisted

4. Screen

Aluminium/Polyester 100% Coverage

5. Braid

Tinned Copper Coverage 90%

6. Outer Screen Drain Wire

Tinned Copper 24AWG (7 x 32)

7. Ripcord

8. Sheath Material

Halogen-Free, Flame Retardant (HFFR) Standard Colour: Violet or Grey

Standard Put Up Length

305 or 500 metres



Physical Characteristics

BCC Part Number	Unit	C1318	C1319	C1320	C1321
No of pairs		1	2	3	4
Conductor Gauge	AWG	24	24	24	24
Conductor configuration	AWG	7 x 32	7 x 32	7 x 32	7 x 32
Nom. Radial Thickness Insulation	mm	0.6	0.6	0.6	0.6
Coverage braid	%	90	90	90	90
Nom. Radial Thickness Sheath	mm	0.8	0.8	0.8	0.8
Nom. Overall Diameter	mm	5.9	8.5	9.0	9.9

Electrical Characteristics

BCC Part Number	Unit	C1318	C1319	C1320	C1321
Nom. DC Resistance Conductor	Ω/km	82.7	82.7	82.7	82.7
Nom. DC Resistance Screen	Ω/km	11.7	15	16	7.3
Nominal Impedance	Ω	120	120	120	120
Capacitance core to core	pF/m	41	42	42	42
Capacitance core to rest	pF/m	82	81	80	80
Nom. Attenuation at 1 MHz	dB/100m	0.6	0.6	0.6	0.6
Nom. Velocity of Propagation	%	66	66	66	66
Max. Recom. Current @ 25°C	Amps	2.1	2.1	1.54	1.54
Max. Operating Voltage	Vrms	300	300	300	300

Miscellaneous

BCC Part Number	Unit	C1318	C1319	C1320	C1321
Fire Retardancy		IEC 60332-3C			
Low Smoke		IEC 61034			
Max. Pulling Tension	N	320	385	460	485
Min. Bend Radius (install)	mm	60	85	90	100
Nominal Cable Weight	kg/km	49	80.5	92.6	114.4
Operating Temperature	°C	-25 / +75	-25 / +75	-25 / +75	-25 / +75



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