

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

1 – 2 – 3 or 4 pairs

AWG 22, Flexible Tinned Copper, Overall Screen, HFFR Sheath

BCC Part No: C1401 – C1402– C1403 – C1404



BRITISH CABLES COMPANY

Applications

Building Management Systems (BMS),
Access Control, Instrumentation

Sector

BCC BMS-TEC™

Standard References

IEC 60332-3-24

IEC 61034

RoHS directives

(BS)EN 50290-2

Design

1. Conductor

Tinned Copper wire, flexible

2. Insulation

Foam 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: core 1 x core 2

Pair 2: core 3 x core 4

Pair 3: core 5 x core 6

Pair 4: core 7 x core 8

4. Screen

Aluminium/Polyester 100% Coverage

5. Braid

Tinned Copper Coverage 65%

6. Outer Screen Drain Wire

Tinned Copper 24AWG (7 x 32)

7. Ripcord

8. Sheath Material

Halogen-Free (HFFR)

Colour: Violet

Standard Put Up Length

305 or 500 metres



Physical Characteristics

BCC Part Number	Unit	C1401	C1402	C1403	C1404
No of pairs		1	2	3	4
Conductor Gauge	AWG	22	22	22	22
Conductor configuration	AWG	7 x 30	7 x 30	7 x 30	7 x 30
Insulation material		FPE	FPE	FPE	FPE
Nom. Radial Thickness Insulation	mm	0.6	0.6	0.6	0.6
Coverage braid	%	65	65	65	65
Nom. Radial Thickness Sheath	mm	0.8	0.8	0.8	0.8
Nom. Overall Diameter	mm	6.1	9.1	10.5	11.4

Electrical Characteristics

BCC Part Number	Unit	C1401	C1402	C1403	C1404
No of pairs		1	2	3	4
Max. DC Resistance Conductor	Ω/km	57.4	57.4	57.4	57.4
Max. DC Resistance Screen	Ω/km	20	20	20	20
Nominal Impedance	Ω	120	120	120	120
Capacitance core to core	pF/m	36	37	38	38
Capacitance core to rest	pF/m	69	69	69	69
Nom. Attenuation at 1 MHz	dB/100m	1.65	1.65	1.65	1.65
Max. Recom. Current @ 25°C	Amps	2.7	2.7	2.7	2.7
Max. Operating Voltage	Vrms	300	300	300	300

Miscellaneous

BCC Part Number	Unit	C1401	C1402	C1403	C1404
No of pairs		1	2	3	4
Max. Pulling Tension	N	265	355	400	445
Min. Bend Radius (install)	mm	60	90	95	105
Nominal Cable Weight	kg/km	46.7	76.7	97	119.1
Operating Temperature	°C			-25 / +75	



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