

BCC BMS-Tec™ - Multi Conductor Cables

2 – 3 – 4 – 6 or 8 Cores

22AWG (7x30), Flexible Bare Copper, Overall Screen, HFFR Sheath

BCC Part No: C1741 – C1743 – C1745 – C1747 – C1749



Applications

Screened Multi-Conductor cables suitable for Audio, Control, Instrumentation and Building Management Systems (BMS)

Sector

BCC BMS-TEC™

Standard References

(BS) EN 50290-2
IEC 60754-1 & 2
IEC 61034
IEC 60332-3C
RoHS directives

Design

1. Conductor

N x Bare Copper wire, 22AWG flexible

2. Insulation

Polyolefin
Core 1: Black
Core 2: Red
Core 3: White
Core 4: Green
Core 5: Brown
Core 6: Blue
Core 7: Orange
Core 8: Yellow

3. Drain Wire

24 AWG (7 x 32) Tinned Copper

4. Screen

Aluminium/Polyester 100% Coverage

5. Ripcord

6. Sheath Material

Flame-Retardant
Halogen Free (HFFR)
Standard colour: Violet

Standard Put Up Length

305 metres



Physical Characteristics

BCC Part Number	Unit	C1741	C1743	C1745	C1747	C1749
No of cores x 22AWG (7 x 30)		2	3	4	6	8
Nom. Diameter Conductor	mm	0.75	0.75	0.75	0.75	0.75
Nom. Radial Thickness Insulation	mm	0.25	0.25	0.25	0.25	0.25
Nom. Radial Thickness Sheath	mm	0.7	0.7	0.7	0.7	0.7
Nom. Overall Diameter	mm	3.9	4.1	4.4	5.2	5.6

Electrical Characteristics

BCC Part Number	Unit	C1741	C1743	C1745	C1747	C1749
No of cores x 22AWG (7 x 30)		2	3	4	6	8
Max. DC Resistance Conductor	Ω/km	57.4	57.4	57.4	57.4	57.4
Max. DC Resistance Screen	Ω/km	78.5	78.5	78.5	78.5	78.5
Capacitance conductor to conductor	pF/m	150	115	120	115	110
Nominal Inductance	μH/m	0.5	0.5	0.5	0.5	0.5
Max. Recommended Current at 25°C	Amps	2.8	2.8	2.25	1.95	1.95
Max. Operating Voltage	Vrms	300	300	300	300	300

Miscellaneous

BCC Part Number	Unit	C1741	C1743	C1745	C1747	C1749
No of cores x 22AWG (7 x 30)		2	3	4	6	8
Operating Temperature	°C	-25 / +75				
Max. Recommended Pulling Tension	N	50	75	100	150	200
Min. Bend Radius (install)	mm	39	41	44	52	56
Nominal Cable Weight	kg/km	20.5	25.2	29.9	41	50.6



British Cables Company Limited, Delaunays Road, Blackley, Manchester, M9 8FP, United Kingdom

Tel: +44 (0) 161 741 2345 | Fax: +44 (0) 161 795 8393 | Web: www.britishcablescompany.com | Email: info@britishcables.com

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