

# BCC BMS-Tec™ - Multi Conductor Cables

2 – 3 – 4 – 6 or 8 Cores

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

BCC Part No: C1742 – C1744 – C1746 – C1748 – C1750



BRITISH CABLES COMPANY

## Applications

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. Ripcord

### 4. Sheath Material

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

### Standard Put Up Length

305 metres



## Physical Characteristics

BCC Part Number	Unit	C1742	C1744	C1746	C1748	C1750
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	C1742	C1744	C1746	C1748	C1750
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
Capacitance conductor to conductor	pF/m	90	85	80	80	80
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	C1742	C1744	C1746	C1748	C1750
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	18.5	23.2	27.9	39	48.6



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