

Applications

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

Sector – BT BMS-TEC™

Audio, Control & Instrumentation

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: purple

Standard Put Up Length

305 metres

Physical Characteristics

BTCL 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

BTCL 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

BTCL 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	-25 / +75	-25 / +75	-25 / +75	-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