

Applications

Building Management Systems (BMS), Access Control, Instrumentation

Sector – BT BMS-TEC™

Computer Cables

Standard References

IEC 60332-1
IEC 31034
RoHS directives
(BS)EN 50290

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 6 x core 8

4. Screen

Aluminium/Polyester
100% Coverage

5. Braid

Tinned Copper Coverage, see table below

6. Outer Screen Drain Wire

Tinned Copper
24AWG (7 x 32)

7. Ripcord

8. Sheath Material

Halogen-Free (HFFR)
Colour: purple

Standard Put Up Length

305 or 500 metres

Physical Characteristics

BTCL 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

BTCL 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

BTCL 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			