

Applications

Building Management Systems (BMS), Access Control, Instrumentation

Sector – BT BMS-TEC™

Computer Cables

Standard References

IEC 60332-1
RoHS directives
(BS)EN 50290

Design

1. Conductor

Tinned Copper wire, flexible

2. Insulation

Foam or solid 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

Polyvinyl Chloride (PVC)

Standard Put Up Length

305 or 500 metres

Physical Characteristics

BTCL Part Number	Unit	C1080	C1295	C1296	C1297	C1189	C1190	C1191	C1192
No of pairs		1	2	3	4	1	2	3	4
Conductor Gauge	AWG	22	22	22	22	24	24	24	24
Conductor configuration	AWG	7 x 30	7 x 30	7 x 30	7 x 30	7 x 32	7 x 32	7 x 32	7 x 32
Insulation material		FPE	FPE	FPE	FPE	PE	PE	PE	PE
Nom. Radial Thickness Insulation	mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Coverage braid	%	65	65	65	65	90	90	90	90
Nom. Radial Thickness Sheath	mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Nom. Overall Diameter	mm	6.1	9.1	10.5	11.4	5.9	8.5	9.0	9.9

Electrical Characteristics

BTCL Part Number	Unit	C1080	C1295	C1296	C1297	C1189	C1190	C1191	C1192
No of pairs		1	2	3	4	1	2	3	4
Max. DC Resistance Conductor	Ω/km	57.4	57.4	57.4	57.4	88	88	88	88
Max. DC Resistance Screen	Ω/km	20	20	20	20	15	15	15	15
Nominal Impedance	Ω	120	120	120	120	120	120	120	120
Capacitance core to core	pF/m	36	37	38	38	41	41	41	41
Capacitance core to rest	pF/m	69	69	69	69	90	80	75	75
Nom. Attenuation at 1 MHz	dB/100m	1.65	1.65	1.65	1.65	0.6	0.6	0.6	0.6
Max. Recom. Current @ 25°C	Amps	2.7	2.7	2.7	2.7	2.1	2.1	1.54	1.54
Max. Operating Voltage	Vrms	300	300	300	300	300	300	300	300

Miscellaneous

BTCL Part Number	Unit	C1080	C1295	C1296	C1297	C1189	C1190	C1191	C1192
No of pairs		1	2	3	4	1	2	3	4
Max. Pulling Tension	N	265	355	400	445	320	385	460	485
Min. Bend Radius (install)	mm	60	90	95	105	60	85	90	100
Nominal Cable Weight	kg/km	63.7	75.6	97	119.1	49	80.5	92.6	114.4
Operating Temperature	°C	-25 / +75							