

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 | | | | | | | |