

### Applications

Overall screened paired cables suitable for Security and Alarm systems, Audio, Control and Instrumentation

### Sector - BT BMS-TEC™

Audio, Control & Instrumentation

### Standard References

(BS) EN 50290-2  
IEC 60332-3-24  
IEC 61034  
IEC 60754-1 & 2  
RoHS directives

### Operating Temperature

-25 / +75 °C

### Design

#### 1. Conductor

Bare Copper wires  
18AWG (7 x 26)

#### 2. Insulation

Polyolefin  
Pair 1: Black/Red  
Pair 2: Black/White  
Pair 3: Black/Green  
Pair 4: Black/Blue  
Pair 5: Black/Yellow  
Pair 6: Black/Brown

#### 3. Pair

two twisted wires

#### 4. Cable Core

N pairs stranded

#### 5. Drain Wire

24 AWG (7 x 32)  
Tinned Copper

#### 6. Overall Screen

Aluminium/Polyester foil  
100% Coverage

#### 5. Sheath Material

Halogen-free (HFFR)  
Standard colour: Purple

### Standard Put Up Length

305 metres

### Physical Characteristics

BTCL Part Number	Unit	C1171	C1172	C1173	C1174	C1175	C1176
Number of pairs		1	2	3	4	5	6
Conductor size	AWG	18 (7 x 26)	18 (7 x 26)	18 (7 x 26)	18 (7 x 26)	18 (7 x 26)	18 (7 x 26)
Nom. Radial Thickness Insulation	mm	0.25	0.25	0.25	0.25	0.25	0.25
Nom. Radial Thickness Sheath	mm	0.8	0.8	0.8	0.8	0.8	0.8
Nom. Overall Diameter	mm	5.1	7.7	8.1	8.9	9.9	10.2

### Electrical Characteristics

BTCL Part Number	Unit	C1171	C1172	C1173	C1174	C1175	C1176
No of pairs		1	2	3	4	5	6
Max. DC Resistance Conductor	Ω/km	22.7	22.7	22.7	22.7	22.7	22.7
Capacitance conductor to conductor	pF/m	115	115	115	115	115	115
Capacitance cond. To rest	pF/m	200	200	200	200	200	200
Max. Recommended Current at 25°C	Amps	4	4	3.5	3.5	3.5	3.5
Max. Operating Voltage	Volt	300	300	300	300	300	300

### Miscellaneous

BTCL Part Number	Unit	C1171	C1172	C1173	C1174	C1175	C1176
Operating Temperature	°C	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75
Max. Recommended Pulling Tension	N	160	317	475	635	795	954
Min. Bend Radius	mm	51	77	81	89	99	102
Nominal Cable Weight	kg/km	4.10	7.41	9.64	12.37	14.92	17.11