

#### Applications

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

#### Sector – BT-BMS-TEC™

Audio, Control & Instrumentation

#### Standard References

(BS) EN 50290-2  
IEC 60332-1  
RoHS directives

#### Design

##### 1. Conductor

N x Bare Copper wire,  
16AWG 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. Ripcord

##### 5. Screen

Aluminium/Polyester  
100% Coverage

##### 6. Sheath Material

Flame-Retardant  
Polyvinyl Chloride (PVC)  
Standard colour: grey

#### Standard Put Up Length

305 metres

#### Physical Characteristics

BTCL Part Number	Unit	C1007	C1009	C1011	C1252	C1254
No of cores x 16AWG (19 x 29)		2	3	4	6	8
Nom. Diameter Conductor	mm	1.4	1.4	1.4	1.4	1.4
Nom. Radial Thickness Insulation	mm	0.2	0.2	0.2	0.2	0.2
Nom. Radial Thickness Sheath	mm	0.4	0.4	0.4	0.4	0.4
Nom. Overall Diameter	mm	4.6	4.9	5.3	6.8	7.6

#### Electrical Characteristics

BTCL Part Number	Unit	C1007	C1009	C1011	C1252	C1254
No of cores x 16AWG (19 x 29)		2	3	4	6	8
Max. DC Resistance Conductor	Ω/km	15.47	15.47	15.47	15.47	15.47
Max. DC Resistance Screen	Ω/km	78.5	78.5	78.5	78.5	78.5
Capacitance conductor to conductor	pF/m	115	119	100	100	100
Capacitance cond. To other cond. +screen	pF/m	230	362	185	180	178
Nominal Inductance	μH/m	0.5	0.5	0.5	0.5	0.5
Max. Recommended Current at 25°C	Amps	6.25	6.25	5	4.35	4.35
Max. Operating Voltage	Vrms	300	300	300	300	300

#### Miscellaneous

BTCL Part Number	Unit	C1007	C1009	C1011	C1252	C1254
No of cores x 16AWG (19 x 29)		2	3	4	6	8
Operating Temperature	°C	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75
Max. Recommended Pulling Tension	N	262	391	520	780	1040
Min. Bend Radius (install)	mm	46	49	53	68	76
Nominal Cable Weight	kg/km	37.3	50	63.5	91.6	120.8