

#### Applications

Unscreened 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,  
18AWG 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. Ripcord

##### 4. Sheath Material

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

##### Standard Put Up Length

305 metres

*Note: © BT BMS-Tec is a registered trade mark of British Telecommunications public limited company.*

#### Physical Characteristics

BTCL Part Number	Unit	C1014	C1016	C1018	C1054	C1212	C1259
No of cores x 18AWG (7 x 26)		2	3	4	5	6	8
Nom. Diameter Conductor	mm	1.2	1.2	1.2	1.2	1.2	1.2
Nom. Radial Thickness Insulation	mm	0.2	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	0.4
Nom. Overall Diameter	mm	3.9	4.1	4.55	5.20	5.7	5.9

#### Electrical Characteristics

BTCL Part Number	Unit	C1014	C1016	C1018	C1054	C1212	C1259
No of cores x 18AWG (7 x 26)		2	3	4	5	6	8
Max. DC Resistance Conductor	Ω/km	22.7	22.7	22.7	22.7	22.7	22.7
Capacitance conductor to conductor	pF/m	52	65	50	50	50	50
Max. Recommended Current at 25°C	Amps	5	5	4	3.5	3.5	3.5
Max. Operating Voltage	Vrms	300	300	300	300	300	300

#### Miscellaneous

BTCL Part Number	Unit	C1014	C1016	C1018	C1054	C1212	C1259
No of cores x 18AWG (7 x 26)		2	3	4	5	6	8
Operating Temperature	°C	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75
Max. Recommended Pulling Tension	N	200	299	399	500	600	797
Min. Bend Radius (install)	mm	40	42	46	52	58	60
Nominal Cable Weight	kg/km	27.3	36.9	47.2	58.1	68.2	87