

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,
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. 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	C1013	C1015	C1017	C1211	C1239	C1258
No of cores x 18AWG (7 x 26)		2	3	4	6	7	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	4.0	4.2	4.6	5.75	5.9	6.4

Electrical Characteristics

BTCL Part Number	Unit	C1013	C1015	C1017	C1211	C1239	C1258
No of cores x 18AWG (7 x 26)		2	3	4	6	7	8
Max. DC Resistance Conductor	Ω/km	20.58	20.58	20.58	20.58	20.58	20.58
Max. DC Resistance Screen	Ω/km	78.5	78.5	78.5	78.5	78.5	78.5
Capacitance conductor to conductor	pF/m	120	129	105	95	80	75
Capacitance cond. To other cond. +screen	pF/m	225	230	190	190	175	176
Nominal Inductance	μH/m	0.5	0.5	0.5	0.5	0.5	0.5
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	C1013	C1015	C1017	C1211	C1239	C1258
No of cores x 18AWG (7 x 26)		2	3	4	6	7	8
Operating Temperature	°C	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75
Max. Recommended Pulling Tension	N	200	299	399	600	620	797
Min. Bend Radius (install)	mm	40	42	46	58	60	60
Nominal Cable Weight	kg/km	29.6	39.2	49.4	70.9	79	89.5