

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,
14AWG flexible

2. Insulation

Polyolefin
Core 1: Black
Core 2: White
Core 3: Red
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	C1001	C1003	C1005	C1248	C1250
No of cores x 14AWG (19 x 27)		2	3	4	6	8
Nom. Diameter Conductor	mm	1.8	1.8	1.8	1.8	1.8
Nom. Radial Thickness Insulation	mm	0.3	0.3	0.3	0.3	0.3
Nom. Radial Thickness Sheath	mm	0.4	0.4	0.4	0.4	0.4
Nom. Overall Diameter	mm	6.0	6.5	6.9	8.6	9.8

Electrical Characteristics

BTCL Part Number	Unit	C1001	C1003	C1005	C1248	C1250
No of cores x 14AWG (19 x 27)		2	3	4	6	8
Max. DC Resistance Conductor	Ω/km	9.36	9.36	9.36	9.36	9.36
Max. DC Resistance Screen	Ω/km	78.5	78.5	78.5	78.5	78.5
Capacitance conductor to conductor	pF/m	115	100	98	96	95
Capacitance cond. To other cond. +screen	pF/m	362	372	178	175	170
Nominal Inductance	μH/m	0.5	0.5	0.5	0.5	0.5
Max. Recommended Current at 25°C	Amps	8	8	6.4	5.6	5.6
Max. Operating Voltage	Vrms	300	300	300	300	300

Miscellaneous

BTCL Part Number	Unit	C1001	C1003	C1005	C1248	C1250
No of cores x 14AWG (19 x 27)		2	3	4	6	8
Operating Temperature	°C	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75
Max. Recommended Pulling Tension	N	420	635	845	1265	1685
Min. Bend Radius (install)	mm	60	65	70	70	100
Nominal Cable Weight	kg/km	57	79.9	102.5	151	197.3