

#### Applications

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

#### Sector – BT BMS-TEC™

Audio, Control & Instrumentation

#### Standard References

(BS) EN 50290-2  
IEC 60332-3C  
RoHS directives

#### Design

##### 1. Conductor

N x Bare Copper wire,  
16AWG flexible

##### 2. Insulation

Polyolefin

##### 3. Drain Wire

24 AWG (7 x 32)  
Tinned Copper

##### 4. Screen

Aluminium/Polyester  
100% Coverage

##### 5. Ripcord

##### 6. Sheath Material

UV-resistant  
Halogen Free (HFFR)  
Standard colour: black

##### Standard Put Up Length

305 metres

#### Physical Characteristics

BTCL Part Number	Unit	C1391	C1392	C1393	C1394	C1395	C1396	C1397
No of cores x 16AWG (19 x 29)		2	3	4	6	8	10	20
Nom. Diameter Conductor	mm	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Nom. Radial Thickness Insulation	mm	0.25	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	0.8
Nom. Overall Diameter	mm	5.5	5.8	6.3	7.4	8.0	9.5	12.1

#### Electrical Characteristics

BTCL Part Number	Unit	C1391	C1392	C1393	C1394	C1395	C1396	C1397
No of cores x 16AWG (19 x 29)		2	3	4	6	8	10	20
Max. DC Resistance Conductor	Ω/km	15.47	15.47	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	78.5	78.5
Capacitance conductor to conductor	pF/m	170	152	165	165	165	150	150
Nominal Inductance	μH/m	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Max. Recommended Current at 25°C	Amps	6.25	6.25	5	4.4	4.4	4.4	4.4
Max. Operating Voltage	Vrms	300	300	300	300	300	300	300

#### Miscellaneous, including colour scheme

BTCL Part Number	Unit	C1351	C1352	C1353	C1354	C1355	C1356	C1357
No of cores x 16AWG (19x 29)		2	3	4	6	8	10	20
Operating Temperature	°C	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75
Max. Recommended Pulling Tension	N	262	391	520	780	1040	1300	2600
Min. Bend Radius (install)	mm	55	58	63	74	80	84	107

core	1	2	3	4	5	6	7	8	9	10
colour	black	red	white	green	brown	blue	orange	yellow	purple	grey
core	11	12	13	14	15	16	17	18	19	20
colour	pink	black/	red/	green/	blue/	black/	white/	green/	blue/	red/
stripe		white	white	white	white	red	red	red	red	green