

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,
18AWG 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	C1351	C1352	C1353	C1354	C1355	C1356	C1357
No of cores x 18AWG (7 x 26)		2	3	4	6	8	10	20
Nom. Diameter Conductor	mm	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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	5.1	5.4	5.8	6.8	7.3	8.4	10.7

Electrical Characteristics

BTCL Part Number	Unit	C1351	C1352	C1353	C1354	C1355	C1356	C1357
No of cores x 18AWG (7 x 26)		2	3	4	6	8	10	20
Max. DC Resistance Conductor	Ω/km	22.7	22.7	22.7	22.7	22.7	22.7	22.7
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	175	150	150	150	150	160	160
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	5	5	4	3.5	3.5	3.5	3.5
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 18AWG (7 x 26)		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	200	299	399	600	797	996	1993
Min. Bend Radius (install)	mm	51	54	58	68	73	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