

#### 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 60754-1 & 2  
IEC 61034  
IEC 60332-3C  
RoHS directives

#### Design

##### 1. Conductor

N x Bare Copper wire,  
20AWG 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. Screen

Aluminium/Polyester  
100% Coverage

##### 5. Ripcord

##### 6. Sheath Material

Flame-Retardant  
Halogen Free (HFFR)  
Standard colour: purple

#### Standard Put Up Length

305 metres

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### Physical Characteristics

BTCL Part Number	Unit	C1731	C1733	C1735	C1737	C1739
No of cores x 20AWG (7 x 28)		2	3	4	6	8
Nom. Diameter Conductor	mm	1.0	1.0	1.0	1.0	1.0
Nom. Radial Thickness Insulation	mm	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
Nom. Overall Diameter	mm	4.7	4.9	5.3	6.2	6.7

### Electrical Characteristics

BTCL Part Number	Unit	C1731	C1733	C1735	C1737	C1739
No of cores x 20AWG (7 x 28)		2	3	4	6	8
Min. Insulation Resistance	MΩ*km	200	200	200	200	200
Max. DC Resistance Conductor	Ω/km	35.75	35.75	35.75	35.75	35.75
Max. DC Resistance Screen	Ω/km	78.5	78.5	78.5	78.5	78.5
Capacitance conductor to conductor	pF/m	150	120	115	115	115
Nominal Inductance	μH/m	0.5	0.5	0.5	0.5	0.5
Max. Recommended Current at 25°C	Amps	3.75	3.75	3	2.6	2.6
Max. Operating Voltage	Vrms	300	300	300	300	300

### Miscellaneous

BTCL Part Number	Unit	C1731	C1733	C1735	C1737	C1739
No of cores x 20AWG (7 x 28)		2	3	4	6	8
Operating Temperature	°C	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75
Max. Recommended Pulling Tension	N	112	168	224	336	448
Min. Bend Radius (install)	mm	47	49	53	62	67
Nominal Cable Weight	kg/km	30.8	37.7	45.8	62.6	78