

### Applications

One pair 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 60332-3C  
RoHS directives

### Design

- 1. Conductor**  
Tinned Copper wires  
One twisted pair
- 2. Insulation**  
Polyolefin  
**Core 1:** Black  
**Core 2:** Clear
- 3. Sheath Material**  
Halogen-Free  
Flame-Retardant (HFFR)  
Standard colour: Purple

### Standard Put Up Length

305 metres

### Physical Characteristics

BTCL Part Number	Unit	C1304	C1306	C1307	C1271	C1309	C1311
Number of pairs		1	1	1	1	1	1
Conductor size	AWG	12	14	16	18	20	22
Conductor stranding	mm	19x0.48	19x0.38	19x0.29	7x0.40	7x0.325	7x0.25
Nom. Radial Thickness Insulation	mm	0.8	0.8	0.8	0.5	0.4	0.4
Nom. Radial Thickness Sheath	mm	0.9	0.9	0.8	0.8	0.8	0.6
Nom. Overall Diameter	mm	9.8	8.7	7.7	5.9	5.2	4.4

### Electrical Characteristics

BTCL Part Number	Unit	C1304	C1306	C1307	C1271	C1309	C1311
No of pairs x conductor AWG size		1PR x 12	1PR x 14	1PR x 16	1PR x 18	1PR x 20	1PR x 22
Max. DC Resistance Conductor	Ω/km	5.61	9.36	15.47	22.7	35.75	57.4
Capacitance conductor to conductor	pF/m	75	75	75	80	80	85
Max. Recommended Current at 25°C	Amps	13	9.5	7.1	5.2	3.9	2.9
Max. Operating Voltage	Vrms	600	600	600	300	300	300

### Miscellaneous

BTCL Part Number	Unit	C1304	C1306	C1307	C1271	C1309	C1311
No of pairs x conductor AWG size		1PR x 12	1PR x 14	1PR x 16	1PR x 18	1PR x 20	1PR x 22
Operating Temperature	°C	-25 / +75					
Max. Recommended Pulling Tension	N	665	420	270	200	110	80
Min. Bend Radius (install)	mm	98	87	77	59	52	44
Cable weight	kg/km	128.2	95.3	71.8	45.9	34.7	24.7

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