

### Applications

Screened 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 60332-1  
RoHS directives

### Design

- 1. Conductor**  
Tinned Copper wires  
One twisted pair
- 2. Insulation**  
Polyolefin  
**Core 1:** Black  
**Core 2:** Clear
- 3. Drain Wire**  
24 AWG (7 x 32)  
Tinned Copper
- 4. Screen**  
Aluminium/Polyester  
100% Coverage

### 5. Sheath Material

Flame-Retardant  
Polyvinyl Chloride (PVC)  
Standard colour: Grey

### Standard Put Up Length

305 metres

### Physical Characteristics

BTCL Part Number	Unit	C1313	C1224	C1213	C1193	C1195	C1199
Number of pairs		1	1	1	1	1	1
Conductor size	AWG	12	14	16	18	20	22
Conductor stranding	mm	19x0.471	19x0.36	19x0.287	16x0.254	7x0.30	7x0.25
Nom. Radial Thickness Insulation	mm	0.8	0.8	0.8	0.5	0.5	0.4
Nom. Radial Thickness Sheath	mm	0.9	0.9	0.8	0.7	0.6	0.6
Nom. Overall Diameter	mm	10.2	9.0	7.9	5.6	5.0	4.4

### Electrical Characteristics

BTCL Part Number	Unit	C1313	C1224	C1213	C1193	C1195	C1199
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	6.2	9.5	14.7	22.7	36.75	57.4
Max. DC Resistance Screen	Ω/km	78.5	78.5	78.5	78.5	78.5	78.5
Capacitance conductor to conductor	pF/m	77	76	60	75	75	75
Capacitance cond. To other cond. +screen	pF/m	160	154	120	134	120	108
Nominal Inductance	μH/m	0.6	0.6	0.6	0.6	0.6	0.6
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	C1313	C1224	C1213	C1193	C1195	C1199
Operating Temperature	°C	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75	-25 / +75
Max. Recommended Pulling Tension	N	665	420	270	200	110	80
Min. Bend Radius (install)	mm	102	90	79	56	50	44
Nominal Cable Weight	kg/km	124.7	105	76	43	36.5	25