

Applications

LonWorks
Interface Bus systems

Standard References

IEC 60332-1
RoHS directives
(BS)EN 50290
IEC 61034
IEC 60754-1 & 2

Design

1. Conductor

Solid Bare Copper
22 AWG (0.64 mm)

2. Insulation

Solid PE or
Foam PE

3. Lay Up

Two wires twisted
to a pair.

4. Drain Wire (if applicable)

24 AWG (0.5 mm)
Tinned Copper

4. Screen (if applicable)

Each pair individually
screened with an
Aluminium/Polyester foil
100% Coverage

5. Cable Core

one pair or two pairs stranded

6. Sheath Material

Halogen-Free (HFFR)
Standard colour: purple

Standard Put Up Length

305 metres

Physical Characteristics

BTCL Part Number	Unit	C1346	C1347	C1348	C1349
Number of pairs		1	2	1	2
Nom. Diameter Conductor	mm	0.64	0.64	0.64	0.64
Insulation material		PE	PE	Foam PE	Foam PE
Nom. Radial Thickness Insulation unscreened pair(s)	mm	0.24	0.24	0.45	0.45
Individually screened pair(s)		1	2	1	2
Nom. Radial Thickness Sheath	mm	0.6	0.6	0.6	0.6
Nom. Overall Diameter	mm	3.5	5.2	4.6	7.6

Electrical Characteristics

BTCL Part Number	Unit	C1346	C1347	C1348	C1349
No of pairs x 22AWG		1	2	1	2
Nominal Impedance	Ω	100	100	100	100
Max. DC Resistance Conductor	Ω/km	61	61	61	61
Max. DC Resistance Screen	Ω/km			78.5	78.5
Capacitance conductor to conductor	pF/m	46	46	46	46
Capacitance cond. To other cond. +screen	pF/m	76	76	90	80
Max. Recommended Current at 25°C	0.6	2.5	2.5	2.5	2.5
Max. Operating Voltage	Vrms	300	300	300	300

Miscellaneous

BTCL Part Number	Unit	C1346	C1347	C1348	C1349
No of pairs x conductor AWG size		1	2	1	2
Operating Temperature	°C	-25 / +75	-25 / +75	-25 / +75	-25 / +75
Max. Recommended Pulling Tension	N	50	100	50	100
Min. Bend Radius (install)	mm	70	104	92	152
Weight	kg/km	17.1	27.7	24.2	56.1