

Applications

Shielded cable suitable for Konnex building management networks

Sector BT BMS-Tec™

Paired Cables

Standard References

EN 50090
(BS)EN 50290-2
RoHS directives

Design

1. Conductor

Bare Copper wire,

2. Insulation

Polyethylene (PE)

3. Lay Up

4 cores stranded to a quad (4 x1) or
2 cores twisted to a pair.

4. Wrapping

PET foil

5. Drain Wire

Tinned Copper Wire, 0.4mm

6. Shield

Aluminium/Polyester
100% Coverage

7. Jacket Material

Polyvinyl Chloride (PVC)
or Halogen Free,
Flame Retardant (HFFR)
Green RAL 6018

Standard Put Up Length

305 or 500 metres

Cable Characteristics

BT Cables P/N	Lay Up	Diameter Conductor (mm)	Radial thickness Insulation (mm)	Diameter over Insulation (mm)	Radial thickness Jacket (mm)	Overall Diameter (mm)	Jacket Material
C1217	Quad	0.8	0.3	1.45	1.1	6.1	PVC
C1218	Quad	0.8	0.3	1.45	1.1	6.1	HFFR
C1219	1 pair	0.8	0.3	1.45	1.1	5.5	PVC
C1220	1 pair	0.8	0.3	1.45	1.1	5.5	HFFR

Conductor Resistance (Ohm/km)	Capacitance (pF/m)	Insulation Resistance (MΩ*km)	Impedance (Ohm)	Velocity Ratio (%)	Recommended Current at 25°C (Amps)	Operating Voltage (Vrms)
< 37	70	1000	60	66	≤ 5	300

BT Cables P/N	Lay Up	Jacket Material	Flame Retardancy	Max. Pulling Tension (Newton)	Min. Installed Bend Radius (mm)	Operating Temperature Range
C1217	Quad	PVC	IEC 60332-1	50	61	-20°C to +75°C
C1218	Quad	HFFR	IEC 60332-3-24	50	61	-20°C to +75°C
C1219	1 pairs	PVC	IEC 60332-1	25	55	-20°C to +75°C
C1220	1 pairs	HFFR	IEC 60332-3-24	25	55	-20°C to +75°C