

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 |