BCC BMS-Tec™ - Cables for KNX (was EIB or Instabus) networks

1 or 2 pairs

0.8 mm, Flexible Tinned Copper, Overall Shield, HFFR Jacket

BCC

BRITISH CABLES COMPANY

Applications
Shielded cable
suitable for Konnex building
management networks

Sector
BCC BMS-TEC™

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
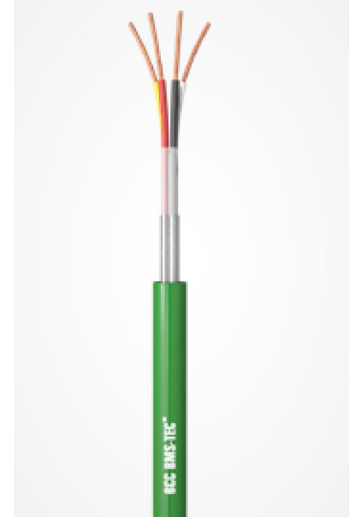Tinned Copper Wire, 0.4mm

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

BCC 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

BCC 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