

# BiT L2 BUS FC

Data transmission cables for Profibus DP network, FastConnect



## Technical data:

### Thermal parameters:

#### Temperature range:

operating temperature: -40 °C to 80 °C  
min. installation temp: -5 °C

### Electrical parameters:

**Wave impedance:** 150 Ω +/- 10%

**Conductor loop resistance (max):** 115 Ω/km

**Screen resistance (max):** 9,7 Ω/km

**Insulation resistance:** 1 GΩ x km

**Capacitance:** 30 nF/km

**Test voltage:** 1.5 kV

**Peak operating voltage:** 250 V (not for power applications)

### Wave attenuation at a frequency of:

1 MHz = 1,2 dB/100 m

4 MHz = 2,2 dB/100 m

10 MHz = 3,2 dB/100 m

16 MHz = 4,2 dB/100 m

### Mechanical parameters:

**Min. bending radius:** 10 x Ø

## Design:

### Conductors:

solid copper conductors 1 x 2 x 0,64 mm

### Insulation:

made of foamed polyethylene with a thin external layer of solid polyethylene

### Core identification:

red, green

### Core arrangement:

cores twisted together

### Inner sheath:

PVC compound

### Screens:

aluminium backed polyester tape and tinned copper wire braid

### Outer sheath:

PVC compound, oil resistant (cf. chemical resistance table), self-extinguishing and flame retardant (as per EN 60332-1-2); colour: purple

## Application:

L2-BUS cables are intended for connecting components (standard 485) and transmission of analogue and digital signals. Paired construction ensures good symmetry with respect to earth, while double screen protects against interferences from external electromagnetic fields, what guarantees very good transmission quality. Cables may be used in dry and damp rooms, and are suitable for fixed installations. Special construction allows to strip the cable with the special stripping tool (FastConnect). Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x 2 x mm	Outer diameter* [mm]	Approximate cable weight [kg/km]
EB0016	1x2x0,64	8,0	82

\*Outer diameter tolerance: +/-5%

Cable Factory BITNER reserves the right to modify the specifications without prior notice