

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 486) 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