

BiT L2 BUS DB

O2YS(St)CYY, Data transmission cables for Profibus network



RoHS 2015/863/EU



LVD 2014/35/EU



CPR 305/2011



industrial application



internal application



EN 60332-1-2



data transmission



EMC



external application



underground application



UV resistance



high flexibility

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: 1500 V

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 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 with two fillers

Screens:

aluminium backed polyester tape and tinned copper wire braid

Sheath:

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

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 the 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. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x 2 x mm	Outer diameter* [mm]	Approximate cable weight [kg/km]
EB0017	1x2x0,64	9,4	100

*Outer diameter tolerance: +/-5%

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