

# BiT L2 BUS



RoHS 2011/65/EU



LVD 2014/35/EU



CPR 305/2011



2 years warranty

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



industrial application



internal application



EN 60332-1



data transmission



EMC

## Technical data:

**Operating temperature:** -40°C to 80°C

**Min. installation temp:** -5°C

**Wave impedance:** 150Ω+/-10%

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

**Screen resistance (max.):** 9,7Ω/km

**Insulation resistance:** 1GΩxkm

**Capacitance:** 30nF/km

**Test voltage:** 1500V

**Wave attenuation at a frequency of:**

1MHz = 1,2dB/100m

4 MHz = 2,2dB/100m

10 MHz = 3,2dB/100m

16 MHz = 4,2dB/100m

**Min. bending radius:** 8xØ

## Construction:

**Conductors:** solid copper conductors 1x2x0,64 mm

**Insulation:** made of foamed polyethylene with a thin external layer of solid polyethylene

**Conductor colours:** red, green

**Core arrangement:** cores twisted together with two fillers

**Screens:** aluminium backed polyester tape and tinned copper wire braid

**Sheath:** special PVC, oil resistant (cf. chemical resistance table), self-extinguishing and flame retardant (as per EN 60332-1)

**Sheath 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 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. For outdoor installations, we have developed the BiT L2 BUS outdoor O2YS(St)C2Y cable with a polyethylene sheath that is resistant to UV radiation.

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

Cat no.	nx2xmm	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
EB0001	1x2x0,64	7,6	59	26,3

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