

BiT L2 BUS Flex

LiO2YS(St)CY, Data transmission cables for Profibus network



Technical data:

Thermal parameters:

Temperature range:

fixed installation: -40 °C to 80 °C
flexible connections: -5 °C to 80 °C

Electrical parameters:

Min. installation temp: -5 °C
Wave impedance: 150 Ω +/-10%
Conductor loop resistance (max.): 172 Ω/km
Screen resistance (max.): 9,7 Ω/km
Insulation resistance: 1G Ω x km
Capacitance: 35 nF/km
Test voltage: 1.5 kV
Wave attenuation at a frequency of:
4 MHz = 2,5 dB/100 m
16 MHz = 5,2 dB/100 m

Mechanical parameters:

Min. bending radius: 10 x Ø

Design:

Conductors:

stranded, bare copper conductors 1 x 2 x 0,64 mm (7 x 0,21 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

Outer sheath:

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

Application:

The cables are intended for connecting L2-BUS 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 and mobile devices. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x 2 x mm	Outer diameter* [mm]	Approximate cable weight [kg/km]
EB0008	1x2x0,64 (7x0,21)	7,6	57

*Outer diameter tolerance: +/-5%

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