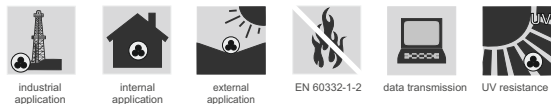


BiT Profibus PA



Data transmission cables for the Profibus networks



Technical data:

Thermal parameters:

Temperature range:

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

Electrical parameters:

Wave impedance: 100 Ω ± 20 %

Conductor loop resistance (max.): 44 Ω/km

Insulation resistance: 1GΩ x km

Capacitance: 55 nF/km

Test voltage: 1.5 kV

Attenuation loss at a frequency of 39 kHz = 3 dB/km

Mechanical parameters:

Min. bending radius: 8 x Ø

Design:

Conductors:

solid copper conductors 1 x 2 x 1 mm

Insulation:

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

Core identification:

red, green

Core arrangement:

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: blue (for explosion hazard zones) or black

Application:

The cables are intended for connecting PROFIBUS network components and signals transmission acc. to Profibus PA standard (Process Automation). 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. Blue sheathed cable is dedicated for explosion hazard zones, black sheathed one is resistant to UV radiation. Cables classified according to EN 50575 (CPR).

Cat. no.	n x 2 x mm	Outer diameter* [mm]	Approximate cable weight [kg/km]	Sheath colour
EB0010	1x2x1	7,6	80	black (UV)
EB0009	1x2x1	7,6	80	blue

*Outer diameter tolerance: +/-5%

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