

BiT Device

Data transmission cables for the DeviceNet™ networks, for fixed installations indoors



industrial application



internal application



data transmission



EN 60332-1-2

Technical data:

Thermal parameters:

Temperature range:

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

Electrical parameters:

Test voltage: 2000 V

Insulation resistance for the transmission pair
min. 200 MΩ x km

Wave impedance: 120 Ω ± 10 %

Approximate capacitance of the transmission: 40 nF/km

Mechanical parameters:

Min. bending radius: 10 x Ø

Design:

Conductors:

multi-stranded, tinned copper conductors, class 5
acc. to EN 60228

Insulation:

transmission pair conductors - PE, power supply
conductors - PVC

Core identification:

transmission pair: blue-white, power supply pair:
red-black

Core arrangement:

twisted screened pairs

Individual screen:

aluminium backed polyester tape

Collective screen:

tinned copper wire braid with coverage ≥ 85% with tinned
copper drain wire

Outer sheath:

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

Application:

The DeviceNet™ communication protocol has been developed by the Allen-Bradley company (currently Rockwell Automation). DeviceNet™ is a dedicated solution for connecting industrial controllers with input/output devices into a network structure. The possibility of supplying power to network devices directly through the communication bus significantly simplifies the structure of a scattered system. As a result, simple devices such as sensors with low power consumption do not require an additional power supply source. Cables are suitable for use in dry and humid areas, for fixed installations. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
EB0011	Normal (2x1 mm ²) + (2x1,5 mm ²)	12,5	197
EB0012	Thin (2x0,25 mm ²) + (2x0,34 mm ²)	7,0	84

*Outer diameter tolerance: +/-5%

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