

BiT E-BUS

EIB, KNX cable



Technical data:

Thermal parameters:

Temperature range:

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

Electrical parameters:

Wave impedance: 85 $\Omega \pm 15\%$

Conductor loop resistance (max.): 73,2 Ω/km

Insulation resistance: 100 M Ω x km

Capacitance: 100 nF/km

Mechanical parameters:

Min. bending radius: 8 x $\varnothing$

Design:

Conductors:

solid copper conductors, as per EN 60228

Insulation:

PVC compound

Core identification:

for a one-pair arrangement: red, black
for a two-pair arrangement: 1p-white/yellow, 2p-red/black
for a four-pair arrangement: 1p-white/blue, 2p-yellow/red,
3p-white/green, 4p-white/brown

Core arrangement:

Screen:

cores twisted in pairs, pairs twisted together
aluminium backed polyester tape with tinned copper
drain wire $\varnothing$ 0,4 mm placed longitudinally underneath
the screen

Sheath:

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

Application:

Cable for transmission of BUS signals in intelligent building management systems based on standards of the European Installation Bus EIB. Signals received from system sensors (lighting, temperature, air conditioning, access control and others) are gathered in the EIB bus, and subsequently processed and used to control a device's operation. Cables can be installed in dry and damp rooms, both within and on walls, as well as in pipes, trays and cable ducts. They may also be used for external applications but suitably protected against direct exposure to sunlight. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x 2 x mm	Outer diameter* [mm]	Approximate cable weight [kg/km]	Sheath colour
EB0151	1x2x0,8	5,6	37	green
EB0005	2x2x0,8	6,0	54	green
EB0007	4x2x0,8	9,3	92	purple
EB0007_07	4x2x0,8	9,3	92	green

*Outer diameter tolerance: +/-5%

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