

# BIT E-BUS

EIB, KNX cable

RoHS 2011/65/EU



LVD 2014/35/EU



CPR 305/2011



2 years warranty



internal application



EN 60332-1



data transmission

## Technical data:

**Operating temperature:** -40°C do 80°C**Min. installation temp:** -5°C**Wave impedance:** 100Ω**Conductor loop resistance (max.):**

147,2Ω/km

**Insulation resistance:** 100MΩxkm**Capacitance:** 100nF/km**Min. bending radius:** 8xØ

## Construction:

**Conductors:** solid copper conductors, as per EN 60228**Insulation:** special PVC**Conductor marking:**

for a two-pair arrangement: white, yellow, red, black

for a four-pair arrangement: white, yellow, red, green, blue, brown, white, white

**Core arrangement:** cores twisted in pairs, pairs twisted together**Screen:** aluminium backed polyester tape with tinned copper drain wire Ø 0,4mm placed longitudinally under the screen**Sheath:** special PVC, oil resistant (cf. chemical resistance table), self-extinguishing and flame retardant (as per EN 60332-1)**Sheath colour:** 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 Information 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.   | nx2xmm  | Outer diameter [mm] | Approximate cable weight [kg/km] | Cu [kg/km] | Sheath colour |
|-----------|---------|---------------------|----------------------------------|------------|---------------|
| EB0005    | 2x2x0,8 | 6,0                 | 54                               | 21         | green         |
| EB0007    | 4x2x0,8 | 9,3                 | 92                               | 41         | purple        |
| EB0007.07 | 4x2x0,8 | 9,3                 | 92                               | 41         | green         |

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