BiT E-BUS H

EIB, KNX halogen-free cable

RoHS 2015/863/EU

CE

LVD 2014/35/EU

CPR

CPR 305/2011

24 months warranty

internal application | EN 60332-1-2 | halogen-free EN 60754 | low smoke emission EN 61034 | data transmission

Technical data:

Thermal parameters:

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

Electrical parameters:

Wave impedance: 85 Ω ±15 %
Conductor loop resistance (max.): 73,2 Ω/km
Insulation resistance: 100 MΩ x km
Capacitance: 100 nF/km

Mechanical parameters:

Min. bending radius: 8 x Ø

Design:

Conductors:	solid copper conductors, as per EN 60228
Insulation:	special halogen-free 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:	cores twisted in pairs, pairs twisted together
Screen:	aluminium backed polyester tape with tinned copper drain wire Ø 0,4 mm placed longitudinally underneath the screen
Outer sheath:	special halogen-free, 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^2	Outer diameter* [mm]	Approximate cable weight [kg/km]	Sheath colour
EB0082	1x2x0,8	5,6	37	green
EB0080	2x2x0,8	6,0	54	green
EB0081	4x2x0,8	9,3	92	purple

*Outer diameter tolerance: +/-5%
Cable Factory BITNER reserves the right to modify the specifications without prior notice

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