UNITRONIC® BUS EIB / KNX

Use in building automation for control of lighting, heating, air-conditioning, time management, etc. temperature range from -30 °C bis +70 °C

Info

EIB / European Installation Bus
KNX/communication in building management
CPR: Article number choice under www.lappkabel.com/cpr





Halogen-free

Application range

The product is designed for use in building management, e.g. for decentralised control of lighting, heating, air-conditioning, ventilation, energy management, blinds, time management, locking systems etc.
The cable can be laid on or under plaster; in pipes, cable ducts; in dry, damp or wet environments.
EIB installation mainly consists of sensors/command-transmitters (e.g. light barriers, switches, thermostats, infrared, wind meters, timers), and actuators (e.g. engines, heaters, ventilators, lights, blinds).
KNX technology was formed from the merging of three established European bus standards: EIP, EHS (household appliances and consumer electronics) and Batibus (heating/ventilation/air conditioning)

Product features

Serial data transmission
EIB cable has been tested at 4 kV (1 min.) in a water bath

Product Make-up

Screened installation cable based on type J-Y(ST)Y according to DIN VDE 0815
UNITRONIC® BUS EIB
Bare solid copper wire
2x2x0,8: red and black, white and yellow
Core insulation: PVC
Overall aluminum foil
Outer sheath: PVC, green (RAL 6017)
UNITRONIC® BUS EIBCOMBI
Bare solid copper wire
Core insulation: PVC
2x2x0,8: red und black, white and yellow
3x1,5: brown, blue, green/yellow
Overall aluminum foil

Last Update (31.12.2023)
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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

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Outer sheath: PVC, green (RAL 6017)

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable
Mutual capacitance:	(800 Hz) max. 100 nF/km
Peak operating voltage:	(not for power applications) 250 V
Conductor resistance:	(loop): max. 73.2 ohm/km
Minimum bending radius:	Fixed installation: 5 x outer diameter
Test voltage:	Core/core: 4000 V
Temperature range:	Fixed installation: -30 °C to +70 °C

Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 100/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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PRODUCT INFORMATION

Article number	Article designation	Number of pairs and mm or mm^2 per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/m)
PVC					
2170240	UNITRONIC® BUS EIB	2 x 2 x 0.8	6.6	21	54
2170242	UNITRONIC® BUS EIB COMBI	2 x 2 x 0,8 mm + 3 x 1,5 mm^2	12.7	64	128
Halogen-free					
2170241	UNITRONIC® BUS EIB H	2 x 2 x 0.8	6.6	21	54

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