



Application

The product is for use in the building management for decentralized control of e.g. lighting, heating, air-conditioning, ventilation, energy management, blinds, time management, locking systems etc.

Serial data transmission. Mainly, the EIB installation consists of

sensors (senders) e.g. light barriers, switches, thermostats, infrared, timers and

actuators (= receivers) e.g. engines, heaters, ventilators, lights, blinds. The EIB bus cable can be laid in, on and under plaster, in pipes and cable ducts, in dry, damp and wet rooms.

Cable Make-up

Screened installation cable based on type J-Y(ST)Y according to DIN VDE 0815, conductor single-wired, plain copper, \varnothing 0,8 mm, measurements 2 x 2 x 0,8 \varnothing . 4 single-wired cores twisted to a star quad; colours of cores: 1st pair red + black, 2nd pair white + yellow.

Screening of aluminum-laminated plastic foil. EIB bus cable has been tested with 4 kV (1 min) in a water bath. Outer sheath based on PVC, green. Alternatively halogen-free version.

Furthermore a COMBI version with additional power supply 3 x 1,5 mm², colour coding blue, black, green/yellow, PVC and halogen-free version.

Technical Data

Minimum bending radius for static:
10 x cable diameter

Temperature range:
static: -30 °C up to +70 °C

Mutual capacitance:
(800 Hz): max. 100 nF/km

Test voltage:
conductor/conductor: 4000 V

Conductor resistance:
(loop): max. 130 Ohm/km

Peak working voltage:
(not f. power purpose) 250 V

Part number	Designation	Number of pairs and diameter per conductor	Outside diameter in mm approx.	Copper weight kg/km approx.	Weight kg/km approx.
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PVC-Version

2170 240	UNITRONIC® BUS EIB	2 x 2 x 0,8 mm	6,1	21	54
2170 242	UNITRONIC® BUS COMBI EIB	2 x 2 x 0,8 mm + 3 x 1,5 mm ²	14,7	64	128

Halogen free Version

2170 241	UNITRONIC® BUS EIB-H	2 x 2 x 0,8 mm	6,1	21	54
2170 243	UNITRONIC® BUS COMBI EIB-H	2 x 2 x 0,8 mm + 3 x 1,5 mm ²	14,7	64	128

No cutting charge for standard stock units (100, 250, 500, 1000 m).
Please state desired Cable Packing Unit (e.g. 1 x 500m drum or 5 x 100m coils).
Coils < 30 kg, beyond automatically drums.
Copper basis: 150,- Euro/100 kg.