UNITRONIC® BUS EIB / KNX

- EIB / European Installation Bus
- KNX/communication in building management

HALOGEN FREE

RoHS

Product description

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 Make-up

- Screened installation cable based on type J-Y(ST)Y according to DIN VDE 0815, solid bare copper conductor, ø 0.8 mm, measurements 2 x 2 x 0.8 ø. 4 solid cores twisted to a star quad; colours of cores: 1st pair red + black, 2nd pair white + yellow.
- Screening: wrapped with aluminium-laminated plastic foil
- PVC-based outer sheath
- Colour: green
- COMBI version with additional power supply cables 3 x 1.5 mm²; core colours: blue, black, green-yellow

Product features

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

Technical Data

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: 10 x cable diameter
Test voltage	Core/core: 4000 V
Temperature range	Fixed installation: -30°C to +70°C