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

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 (18.10.2019)
©2019 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16
UNITRONIC® BUS EIB / KNX

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.

Last Update (18.10.2019)
©2019 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16
<table>
<thead>
<tr>
<th>Article number</th>
<th>Article designation</th>
<th>Number of pairs and mm or mm² per conductor</th>
<th>Outer diameter [mm]</th>
<th>Copper index (kg/km)</th>
<th>Weight (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2170240</td>
<td>UNITRONIC® BUS EIB</td>
<td>2 x 2 x 0.8</td>
<td>6.6</td>
<td>21</td>
<td>54</td>
</tr>
<tr>
<td>2170242</td>
<td>UNITRONIC® BUS EIB COMBI</td>
<td>2 x 2 x 0.8 mm + 3 x 1.5 mm²</td>
<td>12.7</td>
<td>64</td>
<td>128</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Halogen-free</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2170241</td>
<td>UNITRONIC® BUS EIB H</td>
<td>2 x 2 x 0.8</td>
<td>6.6</td>
<td>21</td>
<td>54</td>
</tr>
</tbody>
</table>