0037100 DATA SHEET

valid from: UNITRONIC® LiHH



Application

UNITRONIC® LiHH is a halogen free cable for low frequency applications. The cable is designed for fixed installation and for conditional flexible use. It is used in dry and damp interiors but not appropriate for outside usage.

The cable is used for data processing, measurement and control engineering, safety related systems and as electronic cables.

Design

Design Design based on standard VDE 0812 and EN 50288-7

Certification EN 13501-6 and EN 50575

Classification of fire behaviour

(article/dimension range see www.lappkabel.com/cpr)

Conductor fine wire strands of bare copper wires Insulation special Polyolefin-based compound

Core identification code acc. to DIN 47100

Stranding cores are stranded in layers

Outer sheath special halogen-free compound

colour: pebble grey (similar RAL 7032)

Electrical properties at 20 °C

Conductor resistance 0.14 mm²: max. 138.0 Ω /km

0.25 mm²: max. 79.0 Ω /km 0.34 mm²: max. 57.0 Ω /km 0.5 mm²: max. 39.0 Ω /km 0.75 mm²: max. 26.0 Ω /km 1 mm²: max. 19.5 Ω /km 1.5 mm²: max. 13.3 Ω /km

Specific volume resistivity > 20 G Ω x cm

Mutual capacitance C/C: approx. 80 nF/km

(at 800 Hz)

Inductance approx. 0.65 mH/km

Maximum operating voltage 250 V (not for power applications)

Must not be connected to the mains supply voltage.

Test voltage 1200 V

Mechanical and thermal properties

Temperature range

Minimum bending radius occasional flexing: 10 x outer diameter

fixed installation: 4 x outer diameter occasional flexing: -5 °C up to +70 °C fixed installation: -40 °C up to +80 °C

Flammability flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2

Halogen free acc. to IEC 60754-1 resp. EN 60754-1
Corrosivity of gases acc. to IEC 60754-2 resp. EN 60754-2
Smoke density acc. to IEC 61034-2 resp. EN 60034-2

Toxicity acc. to EN 50305

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General requirements These cables are conform to

EU-Directive 2014/35/EU (Low Voltage Directive) and to

EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain

hazardous substances).

These cables (see www.lappkabel.com/cpr) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).

Environmental information These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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