UNITRONIC® LiHCH (TP)

Screened halogen-free data transmission cable with colour code acc. to DIN 47100 and twisted pairs

Halogen-free: to protect human life and valuable assets in the event of a fire, through low smoke density and low amount of corrosive gases; Low capacitance due to polyolefin-based insulation; Overall braid minimises electrical interference; Decoupling of circuits by means of
twisted-pair (TP) design (crosstalk effects)

- TP = twisted pair

Product description

Application range

- Suitable for areas with a high density of people as well as high-value property that must be protected in the event of a fire
- For use within public buildings, transport systems and industrial plants
- For data processing, measurement and control engineering, safety related systems and as electronics cable
- For use in computer systems, instrumentation systems, office equipment, balances - wherever screened, halogen-free, small-diameter cables are needed.

Benefits

- Halogen-free: to protect human life and valuable assets in the event of a fire, through low smoke density and low amount of corrosive gases

- Low capacitance due to polyolefin-based insulation
- Overall braid minimises electrical interference
- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)

Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation made of special halogen-free compound
- TP structure
- Tinned-copper braiding
- Outer sheath made of special halogen-free compound
  Outer sheath colour: pebble grey (RAL 7032)

Norm references / Approvals

- Based on VDE 0812

Product features

- Flame-retardant according IEC 60332-1-2
- Low smoke zero halogen (LSZH)
- Halogen-free according to IEC 60754-1
  (amount of halogen acid gas)
  Corrosiveness of combustion gases according to EN 50267-2-3 (degree of acidity)
- Low smoke density according to IEC 61034-2

Technical Data

Core identification code	DIN 47100 without colour repetition, refer to Appendix T9
Mutual capacitance	C/C approx. 80 nF/km C/S approx. 120 nF/km
Peak operating voltage	(not for power applications) 250 V
Classification	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Inductivity	approx. 0.65 mH/km
Coupling	At 1 kHz: approx. 300 pF/100 m
Conductor stranding	Fine copper wire strands
Minimum bending radius	Occasional flexing: 15 x outer diameter Fixed installation: 6 x outer diameter
Test voltage	1200 V
Temperature range	Occasional flexing: -5°C to +70°C Fixed installation: -30°C to +80°C