



UNITRONIC® LiHCH (TP)

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



Info

- TP = twisted pair



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)

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.

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

Norm references / Approvals

- Based on VDE 0812

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)

Technical data

| | |
|--|--|
| | Classification ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable |
| | 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 |
| | Coupling At 1 kHz: approx. 300 pF/100 m |
| | Inductivity approx. 0.65 mH/km |
| | 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 |

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|------------------------------|---|---------------------|----------------------|----------------|
| UNITRONIC® LiHCH (TP) | | | | |
| 0038302 | 2 x 2 x 0.14 | 5.9 | 18.5 | 39 |
| 0038303 | 3 x 2 x 0.14 | 6 | 23 | 48 |
| 0038304 | 4 x 2 x 0.14 | 6.4 | 26.6 | 54 |
| 0038308 | 8 x 2 x 0.14 | 8.4 | 53.7 | 97 |
| 0038312 | 12 x 2 x 0.14 | 9.1 | 66 | 142 |
| 0038316 | 16 x 2 x 0.14 | 10.4 | 79 | 154 |
| 0038325 | 25 x 2 x 0.14 | 12.7 | 113 | 238 |
| 0038402 | 2 x 2 x 0.25 | 6.5 | 28 | 54 |
| 0038403 | 3 x 2 x 0.25 | 7.3 | 39.6 | 66 |
| 0038404 | 4 x 2 x 0.25 | 7.8 | 44.9 | 81 |
| 0038406 | 6 x 2 x 0.25 | 8.7 | 69.5 | 115 |
| 0038408 | 8 x 2 x 0.25 | 10.5 | 76.9 | 130 |
| 0038412 | 12 x 2 x 0.25 | 11.5 | 120 | 190 |

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 0038416 | 16 x 2 x 0.25 | 12.7 | 146.5 | 238 |
| 0038602 | 2 x 2 x 0.5 | 8.8 | 48.1 | 93 |
| 0038603 | 3 x 2 x 0.5 | 8.9 | 73.7 | 129 |
| 0038604 | 4 x 2 x 0.5 | 9.6 | 82 | 146 |
| 0038606 | 6 x 2 x 0.5 | 11.3 | 110 | 198 |
| 0038608 | 8 x 2 x 0.5 | 13.3 | 139 | 259 |
| 0038612 | 12 x 2 x 0.5 | 15.1 | 198.3 | 354 |
| 0038616 | 16 x 2 x 0.5 | 16.7 | 240 | 459 |
| 0038702 | 2 x 2 x 0.75 | 9.5 | 58 | 106 |
| 0038704 | 4 x 2 x 0.75 | 10.9 | 108 | 179 |
| 0038708 | 8 x 2 x 0.75 | 14.9 | 180 | 305 |
| 0038802 | 2 x 2 x 1 | 10.5 | 84 | 142 |
| 0038803 | 3 x 2 x 1 | 10.6 | 96 | 173 |
| 0038804 | 4 x 2 x 1 | 11.5 | 121 | 212 |

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 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 are not to scale and do not represent detailed images of the respective products.

Accessories

- SKINTOP® MS-SC-M refer to page 732
- Multipurpose shears A and B refer to page 998