

## UNITRONIC® LiHCH (TP)

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

UNITRONIC® LiHCH (TP): Low-frequency halogen-free data cable flexible (0.34 mm<sup>2</sup> multi-wire Maxi TERMI-POINT®) 47100 low capacitance, low smoke density, screened

### Info

TP = twisted pair

CPR: Article number choice under [www.lappkabel.com/cpr](http://www.lappkabel.com/cpr)



Halogen-free



Interference signals

### 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

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

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## UNITRONIC® LIHCH (TP)

Low smoke zero halogen (LSZH)

Halogen-free as per IEC 60754-1, Low corrosivity/ acidity of combustion gases per IEC 60754-2, Low toxicity of comb. gases per EN 50305

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:    | ETIM 5.0 Class-ID: EC000104<br>ETIM 5.0 Class-Description: Control cable          |
| Classification ETIM 6:    | ETIM 6.0 Class-ID: EC000104<br>ETIM 6.0 Class-Description: Control cable          |
| Core identification code: | DIN 47100 without colour repetition, refer to Appendix T9                         |
| Mutual capacitance:       | C/C approx. 80 nF/km<br>C/S approx. 120 nF/km                                     |
| 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<br>Fixed installation: 6 x outer diameter |
| Test voltage:             | 1200 V  |
| Temperature range:        | Occasional flexing: -5°C to +70°C<br>Fixed installation: -30°C to +80°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 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](http://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.

## UNITRONIC® LIHCH (TP)

| Article number        | Number of cores and mm <sup>2</sup> per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|-----------------------|---|---------------------|----------------------|----------------|
| UNITRONIC® LIHCH (TP) |   |                     |                      |                |
| 0038302               | 2 x 2 x 0.14                                      | 5.5                 | 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            |
| 0038416               | 16 x 2 x 0.25                                     | 12.7                | 146.5                | 238            |
| 0038602               | 2 x 2 x 0.5                                       | 8.1                 | 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                                      | 8.7                 | 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 1.0                                       | 9.2                 | 84                   | 142            |
| 0038803               | 3 x 2 x 1.0                                       | 10.6                | 96                   | 173            |
| 0038804               | 4 x 2 x 1.0                                       | 11.5                | 121                  | 212            |

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