



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

- 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
- Specific insulation resistance**
> 20 GOhm x cm
- 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	6.0	23.0	48
0038304	4 x 2 x 0.14	6.4	26.6	54
0038306	6 x 2 x 0.14	7.3	48.5	85
0038308	8 x 2 x 0.14	8.4	53.7	97
0038310	10 x 2 x 0.14	8.9	59.0	110
0038312	12 x 2 x 0.14	9.1	66.0	142
0038316	16 x 2 x 0.14	10.4	79.0	154
0038320	20 x 2 x 0.14	11.5	97.0	184
0038325	25 x 2 x 0.14	12.7	113.0	238
0038402	2 x 2 x 0.25	6.5	28.0	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	120.0	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	82.0	146
0038606	6 x 2 x 0.5	11.3	110.0	198
0038608	8 x 2 x 0.5	13.3	139.0	259
0038612	12 x 2 x 0.5	15.1	198.3	354
0038616	16 x 2 x 0.5	16.7	240.0	459
0038702	2 x 2 x 0.75	9.5	58.0	106
0038703	3 x 2 x 0.75	9.6	84.0	140
0038704	4 x 2 x 0.75	10.9	108.0	179
0038708	8 x 2 x 0.75	14.9	180.0	305
0038802	2 x 2 x 1	10.5	84.0	142
0038803	3 x 2 x 1	10.6	96.0	173
0038804	4 x 2 x 1	11.5	121.0	212
0038805	5 x 2 x 1	12.0	161.0	266

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100kg. 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 674
- Multipurpose shears A and B refer to page 907