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 mm² multi-wire Maxi TERMI-POINT®) 47100 low capacitance, low smoke density, screened

Info
TP = twisted pair



Interference signals

Halogen-free

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.

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Product features

Flame-retardant according IEC 60332-1-2
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 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Core identification code:	DIN 47100 without colour repetition, refer to Appendix T9
Mutual capacitance:	C/C approx. 80 nF/km 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

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
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.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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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
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	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	10.5	84	142
0038803	3 x 2 x 1	10.6	96	173
0038804	4 x 2 x 1	11.5	121	212

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