



DATA SHEET	0038302
UNITRONIC® LIHCH (TP)	valid from : 26.08.2005

Application

UNITRONIC® LIHCH (TP) is a halogen-free, screened, paired, flexible cable for control and data transmissions, for weak-current applications. The fine wired conductor (7-wired for 0.34mm²) and the robust halogen-free outer sheath gives the cable strength as well as high flexibility. By the pair twisting the electric circuits are well decoupled and with the screen of a tinned copper braiding the cable is protected against external electrical influences.

The cable is intended for static laying and flexible use in dry and damp interiors. Design and electrical characteristics acc. to VDE 0812.

Design

Conductor	fine-wire strands of bare copper wire; 0.14 mm ² to 1.0 mm ² , 7-wired for 0.34 mm ²
Insulation	halogen-free compound, polyolefin type
Coding	to DIN 47100
Pair stranding	cores twisted into pairs
Core stranding	pairs twisted in layers, wrapping by plastic foil
Screening	braiding of tinned copper wires
Sheath	halogen-free compound HM 2 to VDE 0207, part 24. flame retardant, grey, RAL 7032

Marking on the sheath

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Technical Data

Loop resistance	0.14 mm ²	max. Ω/km	276
	0.25 mm ²	max. Ω/km	158
	0.34 mm ²	max. Ω/km	114
	0.5 mm ²	max. Ω/km	78
	0.75 mm ²	max. Ω/km	52
	1.0 mm ²	max. Ω/km	39
Specific insulation resistance		min. GΩxcm	20
Mutual capacitance	core/core	nF/km	appr. 80
	core/screen	nF/km	appr. 120
Inductivity		mH/km	appr. 0.65
Operating Voltage (not for power purposes)		V	250
Test voltage		U _{eff.} V	1200
Temperature range	static	°C	- 30 to + 80
Minimum bending radius	static		6 x Ø cable
	moved		15 x Ø cable
Flame propagation	flame retardant to IEC 60 332-1		
Absence of halogens	according to IEC 60754-1 / VDE 0472, part 815		
Smoke density	according to IEC 61034-1, -2 / VDE 0472, part 816		

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