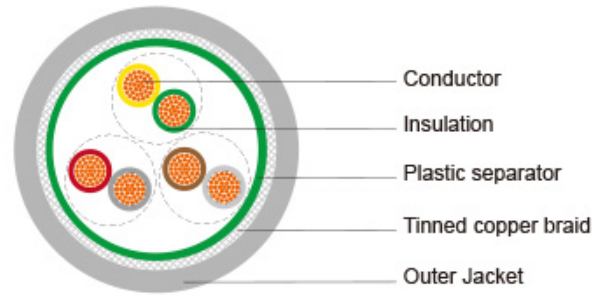


German Standard Industrial Cables LIHCH TP



Application and Description

LIHCH TP is for use in flexible or stationary applications under low mechanical stress with free movement without any tensile stress, loads or forced movements in dry, moist and wet conditions. Commonly used as connecting cable for signal, measuring, control, call-announcing and two-way intercom systems, clock installations, electronic weighing machines and electrical apparatus for office use. The halogenfree thermoplastic jacket is flame retardant and will give off no corrosive or toxic gases in the case of fire. Commonly installed in public buildings, laboratories, trading and transportation centers. The twisted pair design will reduce internal interference (crosstalk) while the tinned copper braid shield offers added protection and interference-free signal and data transfers. Not permitted for outdoor use.

Standard and Approval

VDE 0482 part 267, VDE 0812, CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant

Cable Construction

- Plain copper conductor
- Stranded to DIN VDE 0295 cl. 5, IEC 60228 cl.5
- Halogen free core insulation
- Color coded to DIN 47100, but without color repetition
- Cores twisted into layers
- Plastic foil separator
- 85% tinned copper braid
- Halogen free outer jacket

Technical Characteristics

- Working voltage: 250 volts
- Test voltage: 1200 volts
- Minimum bending radius: 5 x Ø
- Flexing temperature: -5° C to +70° C
- Static temperature: -40° C to +70° C
- Flame retardant: IEC 60332.1-2
- Mutual Capacitance: Conductor./conductor: 80 nF/km
Conductor./shield: 120 nF/km
- Halogen free: DIN EN 50267/IEC 60754
- Smoke density: DIN EN50268/IEC 61034
- Insulation resistance: 20 MΩ x km

Cable Parameter

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA # X MM ²	NOMINAL OVERALL DIAMETER MM	COPPER WEIGHT KG / KM	CABLE WEIGHT KG / KM
26(18/38)	2x2x0.14	5.2	19.1	34
26(18/38)	3x2x0.14	5.7	23.4	41
26(18/38)	4x2x0.14	6.5	27.8	53
26(18/38)	5x2x0.14	7.0	31.9	60
26(18/38)	6x2x0.14	7.2	36.2	68
26(18/38)	8x2x0.14	7.8	43.4	80
26(18/38)	10x2x0.14	8.9	50.6	100
26(18/38)	12x2x0.14	9.7	58.2	111
26(18/38)	16x2x0.14	10.5	71.4	136
26(18/38)	18x2x0.14	11.1	92.8	159
26(18/38)	20x2x0.14	11.7	98.1	164
26(18/38)	24x2x0.14	12.3	114.8	203
26(18/38)	25x2x0.14	12.8	117.5	207
26(18/38)	28x2x0.14	13.1	125.7	221
26(18/38)	30x2x0.14	13.8	135.6	237
26(18/38)	36x2x0.14	14.6	157.8	275
26(18/38)	40x2x0.14	14.9	168.2	296
26(18/38)	44x2x0.14	16.3	205.9	348
26(18/38)	52x2x0.14	17.0	228.1	388
26(18/38)	61x2x0.14	18.3	263.2	443
24(14/34)	2x2x0.25	5.7	24.9	42
24(14/34)	3x2x0.25	6.4	31.4	55
24(14/34)	4x2x0.25	7.8	44.9	81
24(14/34)	6x2x0.25	7.9	50.7	85
24(14/34)	8x2x0.25	9.0	62.1	109
24(14/34)	10x2x0.25	9.8	73.9	132
24(14/34)	12x2x0.25	10.9	101.9	160
24(14/34)	16x2x0.25	11.9	126.8	195
24(14/34)	18x2x0.25	12.7	136.6	222
24(14/34)	24x2x0.25	14.2	170.3	270
22(7/30)	2x2x0.34	6.8	31.5	57
22(7/30)	3x2x0.34	7.4	39.7	72
22(7/30)	4x2x0.34	8.8	49.8	99

22(7/30)	5x2x0.34	9.5	58.5	116
22(7/30)	6x2x0.34	9.7	65.1	128
22(7/30)	8x2x0.34	10.6	80.7	144
22(7/30)	12x2x0.34	13.4	133.1	225
22(7/30)	16x2x0.34	14.6	165.0	280
22(7/30)	18x2x0.34	15.1	178.3	306
22(7/30)	24x2x0.34	17.6	255.1	415
20(16/32)	2x2x0.5	7.2	39.3	66
20(16/32)	3x2x0.5	7.9	50.1	84
20(16/32)	4x2x0.5	9.6	82.0	146
20(16/32)	6x2x0.5	10.4	86.0	146
20(16/32)	8x2x0.5	10.9	111.5	166
20(16/32)	10x2x0.5	13.2	146.5	229
20(16/32)	12x2x0.5	14.4	175.7	268
20(16/32)	16x2x0.5	16.3	241.3	368
20(16/32)	18x2x0.5	16.9	261.0	399
20(16/32)	20x2x0.5	16.9	280.2	418
20(16/32)	24x2x0.5	19.0	330.4	491
18(24/32)	2x2x0.75	8.5	52.4	92
18(24/32)	3x2x0.75	9.4	69.4	112
18(24/32)	4x2x0.75	10.9	108.0	179
18(24/32)	6x2x0.75	12.5	136.5	218
18(24/32)	8x2x0.75	14.9	180.0	305
18(24/32)	12x2x0.75	17.1	261.2	385
18(24/32)	16x2x0.75	18.6	329.9	482
18(24/32)	18x2x0.75	19.3	369.3	535
18(24/32)	24x2x0.75	21.8	469.2	661
17(32/32)	2x2x1.0	10.5	84.0	142
17(32/32)	3x2x1.0	10.6	96.0	173
17(32/32)	4x2x1.0	11.5	121.0	212
17(32/32)	5x2x1.0	12.0	161.0	266