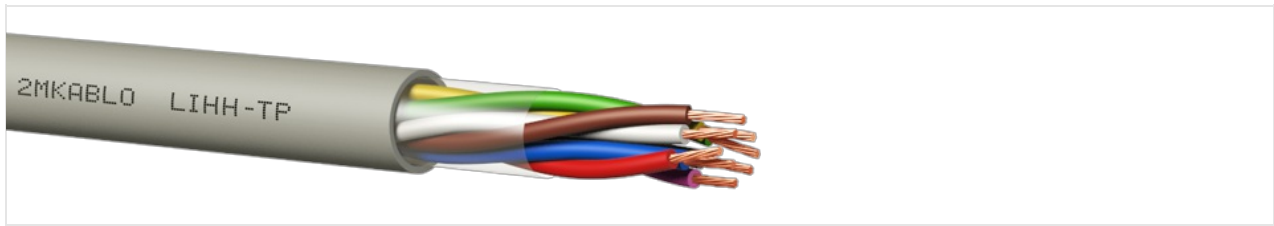


## LIHH-TP



### Areas of Use

LIHH-TP cables are used in the industrial applications for signal transmission. These can be easily used with their flexible construction in narrow applications like electronic control systems of computer or audio systems or communication sector, electronic circuits, measurement devices, machine design, office equipment, etc. LIHH-TP cables have HFFR material in their construction and These don't burn easily and the flames go off by themselves. These have low smoke density and These don't emit poisonous and corrosive gases during the fire. These used in buildings where there are important goods or human population.

### Cable Construction

<b>Conductor</b>	Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm <sup>2</sup> : Class 2)
<b>Insulation</b>	HFFR (EN 50290-2-26)
<b>Lay-up</b>	Cores are twisted as pairs and pairs are stranded in layers
<b>Outer Sheath</b>	HFFR (EN 50290-2-27), RAL 7001 - Grey
<b>Reference Standards</b>	VDE 0812, TS 13755
<b>Core Colors</b>	DIN 47100 or Black-White and Numbered

### Technical Properties

<b>Operating Voltage</b>	0.14 mm <sup>2</sup> ..0.25 mm <sup>2</sup> 250 V; 0.34 mm <sup>2</sup> ..1.50 mm <sup>2</sup> 300 V / 500 V; 2.50 mm <sup>2</sup> ..... 450 V / 750 V
<b>Test Voltage</b>	0.14 mm <sup>2</sup> - 800 V; 0.22 mm <sup>2</sup> ....1.00 mm <sup>2</sup> - 1200 V; 1.50 mm <sup>2</sup> ..... 2.50 mm <sup>2</sup> - 2500 V
<b>Conductor Resistance</b>	0.14 mm <sup>2</sup> - ≤138 Ω/km; 0.22 mm <sup>2</sup> - ≤85 Ω/km; 0.25 mm <sup>2</sup> - ≤77.8 Ω/km; 0.34 mm <sup>2</sup> - ≤56 Ω/km; 0.50 mm <sup>2</sup> - ≤39 Ω/km; 0.75 mm <sup>2</sup> - ≤26Ω/km; 1.00 mm <sup>2</sup> - ≤19.5 Ω/km; 1.50 mm <sup>2</sup> - ≤13.3 Ω/km; 2.50 mm <sup>2</sup> - ≤7.98 Ω/km
<b>Insulation Resistance</b>	>200 M.Ωxkm
<b>Capacitance (@800Hz)</b>	Core - Core: 0.14 mm <sup>2</sup> -≤80 nF/km; 0.22 mm <sup>2</sup> ..0.34 mm <sup>2</sup> -≤100 nF/km; 0.50 mm <sup>2</sup> ..0.75 mm <sup>2</sup> -≤110 nF/km; 1.00 mm <sup>2</sup> ..1.50 mm <sup>2</sup> -≤120nF/km; 2.50 mm <sup>2</sup> - ≤140 nF/km
<b>Indutance (approx.)</b>	0.65 mH/km
<b>Temperature Range</b>	Fixed: -30 °C .....+70 °C, Flexible: -5 °C .....+70 °C
<b>Flame Retardancy</b>	IEC/EN 60332-1
<b>Smoke Density</b>	IEC/EN 61034-2
<b>Amount of Halogen Acid Gas</b>	IEC/EN 60754-1
<b>Corrosive Gases Measurement</b>	IEC/EN 60754-2
<b>Min. Bending Radius</b>	Fixed: 8 x Cable Diameter, Flexible: 15 x Cable Diameter

### Cross Section

Configuration / Cross-Section (mm/mm <sup>2</sup> )	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x2x0.5	7.0	17	57
3x2x0.5	7.6	26	76
4x2x0.5	8.4	35	96

5x2x0.5	9.4	43	120
6x2x0.5	10.3	52	143
7x2x0.5	10.3	61	157
8x2x0.5	11.4	70	183
10x2x0.5	13.5	87	233
2x2x0.75	8.1	26	77
3x2x0.75	8.7	39	102
4x2x0.75	9.6	52	129
5x2x0.75	10.7	65	160
6x2x0.75	11.7	78	190
7x2x0.75	11.7	91	209
8x2x0.75	12.9	104	244
10x2x0.75	15.3	130	309
2x2x1	8.5	35	89
3x2x1	9.1	52	119
4x2x1	10.2	69	155
5x2x1	11.4	87	192
6x2x1	12.5	104	228
7x2x1	12.5	122	252
8x2x1	13.7	139	293
10x2x1	16.3	174	370
2x2x1.5	10.3	52	132
3x2x1.5	11.1	78	176
4x2x1.5	12.3	104	227
5x2x1.5	13.7	130	281
6x2x1.5	15.1	156	332
7x2x1.5	15.1	182	369
8x2x1.5	16.6	208	427
10x2x1.5	19.7	260	538

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