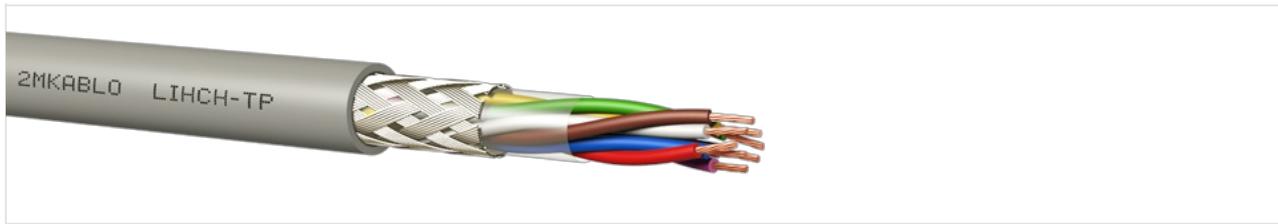# LIHCH-TP

Areas of Use

These screened HFFR cables are used as signal transmission cables for indoor applications. These can be easily used with their flexible construction in narrow applications like electronic control systems of computer or audio systems or the communication sector, electronic circuits, measurement devices, machine design, office equipment, etc. Screening protects the cable against the outer electrical effects. Because of the HFFR material, 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

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm²: Class 2)
Insulation	HFFR (EN 50290-2-26)
Lay-up	Cores are twisted as pairs and pairs are stranded in layers
Separator	PET Foil
Screen	Tinned Copper Wire Braid
Outer Sheath	HFFR (EN 50290-2-27), RAL 7001 - Grey
Reference Standards	VDE 0812, TS 13755
Core Colors	DIN 47100 or Black-White and Numbered

Technical Properties

Operating Voltage	0.14 mm²..0.25 mm² 250 V; 0.34 mm²..1.50 mm² 300 V / 500 V; 2.50 mm²...... 450 V / 750 V
Test Voltage	0.14 mm²..25 mm² 1200 V; 0.34 mm²..10 mm² 1500 V; 1.50 mm²..... 2500 V
Loop Resistance	0.14 mm²-≤276 Ω/km; 0.22 mm²-≤170 Ω/km; 0.25 mm²-≤155.6 Ω/km; 0.34 mm²-≤112 Ω/km; 0.50 mm²-≤78 Ω/km; 0.75 mm²-≤52 Ω/km; 1.00 mm²-≤39 Ω/km; 1.50 mm²-≤26.6 Ω/km
Insulation Resistance	>200 M.Ωxkm
Capacitance (@800Hz)	Core - Core: 0.14 mm²-≤80 nF/km; 0.22 mm²..0.34 mm²-≤100 nF/km; 0.50 mm²..0.75 mm²-≤110 nF/km; 1.00 mm²..1.50 mm²-≤120nF/km; 2.50 mm²- ≤140 nF/km Core-Screen: 0.14 mm²-≤120 nF/km; 0.22 mm²..0.34 mm²-≤150 nF/km; 0.50 mm²..0.75 mm²-≤170 nF/km; 1.00 mm²..1.50 mm²-≤180nF/km; 2.50 mm²- ≤240 nF/km
Indutance (approx.)	0.65 mH/km
Temperature Range	Fixed: -30 °C ....+70 °C, Flexible: -5 °C ....+70 °C
Flame Retardancy	IEC/EN 60332-1
Smoke Density	IEC/EN 61034-2
Amount of Halogen Acid Gas	IEC/EN 60754-1
Corrosive Gases Measurement	IEC/EN 60754-2
Min. Bending Radius	Fixed: 8 x Cable Diameter, Flexible: 15 x Cable Diameter

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)

2x2x0.5	7.4	25	64
3x2x0.5	7.8	34	81
4x2x0.5	8.6	43	101
5x2x0.5	9.6	52	125
6x2x0.5	10.6	62	147
8x2x0.5	11.5	80	184
10x2x0.5	13.7	99	237
12x2x0.5	14.3	116	272
2x2x0.75	8.3	34	82
3x2x0.75	8.9	47	107
4x2x0.75	9.8	61	133
5x2x0.75	10.8	75	161
6x2x0.75	12.0	88	194
8x2x0.75	13.2	115	246
10x2x0.75	15.6	143	311
12x2x0.75	16.3	172	362
2x2x1	8.8	43	97
3x2x1	9.4	61	123
4x2x1	10.4	78	159
5x2x1	11.5	96	192
6x2x1	12.7	114	230
8x2x1	13.9	149	289
10x2x1	16.6	189	375
12x2x1	17.2	223	432
2x2x1.5	10.6	62	137
3x2x1.5	11.3	88	180
4x2x1.5	12.6	114	230
5x2x1.5	13.9	140	279
6x2x1.5	15.3	167	333
8x2x1.5	16.8	222	424
10x2x1.5	20.1	284	548
12x2x1.5	20.9	335	631

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