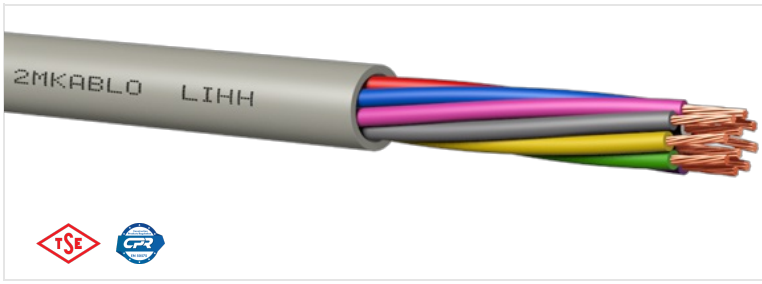
LIHH



Areas of Use

LIHH cables are used in the industrial applications for indoor use 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 the communication sector, electronic circuits, measurement devices, machine design, office equipment, etc.LIHH 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

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm²: Class 2)
Insulation	HFFR (EN 50290-2-26)
Core Colors	DIN 47100 (4 cores colors, white, yellow, brown, green)
Lay-up	Cores are stranded in layers
Outer Sheath	HFFR (EN 50290-2-27), RAL 7001 - Grey
Reference Standards	VDE 0812, TS 13755
CPR Classes	B2ca s1a d1 a1

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
Conductor Resistance	0.14 mm²- ≤138 Ω/km; 0.22 mm²- ≤85 Ω/km; 0.25 mm²- ≤77.8 Ω/km; 0.34 mm²- ≤56 Ω/km; 0.50 mm²- ≤39 Ω/km; 0.75 mm²- ≤26Ω/km; 1.00 mm²- ≤19.5 Ω/km; 1.50 mm²- ≤13.3 Ω/km; 2.50 mm²- ≤7.98 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
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)

2x0.5	4.4	9	27
3x0.5	4.7	13	34
4x0.5	5.2	17	44
5x0.5	5.7	22	57
7x0.5	6.3	30	71
9x0.5	7.6	39	98
10x0.5	8.3	43	106
14x0.5	9.1	61	145
16x0.5	9.7	70	164
20x0.5	10.8	87	198
25x0.5	12.3	109	251
2x0.75	5.0	13	35
3x0.75	5.3	20	46
4x0.75	5.8	26	57
5x0.75	6.5	33	76
7x0.75	7.2	46	95
9x0.75	8.6	59	130
10x0.75	9.4	65	141
14x0.75	10.4	91	196
16x0.75	11.1	104	222
18x0.75	11.7	117	244
20x0.75	12.5	130	271
25x0.75	13.9	163	333
2x1	5.4	17	43
3x1	5.6	26	54
4x1	6.2	35	70
5x1	6.9	43	92
7x1	7.7	61	116
9x1	9.1	78	158
10x1	10.0	87	171
14x1	11.1	122	237
16x1	11.8	139	269
18x1	12.5	156	296
20x1	13.2	174	329
25x1	14.8	217	404
2x1.5	6.4	26	61
3x1.5	6.8	39	81
4x1.5	7.6	52	104
5x1.5	8.4	65	137
7x1.5	9.3	91	171
9x1.5	11.1	117	235
10x1.5	12.3	130	259
14x1.5	13.5	182	352
16x1.5	14.3	208	398
20x1.5	15.9	260	479
25x1.5	17.9	325	596

2x2.5	7.5	43	89
3x2.5	7.9	65	117
4x2.5	8.9	87	154
5x2.5	9.8	108	201

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