



Applications

LIHH cables are used in the industrial applications for indoor use for signal transmission. They can be easily used with their flexible construction in narrow applications like: electronic control systems of computer or audio systems or in communication sector, electronic circuits, measurement devices, machine design, office equipment, etc.

LIHH cables have HFFR material in their construction and they don't burn easily and the flames go off by themselves. They have low smoke intensity and they don't emit poisonous and corrosive gases. They are used in buildings where there are important goods or human population.

Construction

Conductor	Stranded Electrolytic Annealed Copper (IEC 228 / VDE0295 / HD383 / BS 6360 Class 5, 0.34 mm ² : Column 3)
Insulation	HFFR (EN 50290-2 / HD 624.6 S1 / VDE 0207-HI2), Color Code : DIN 47100
Lay-up	All cores as layers
Separator	PES Tape
Outer Sheath	HFFR (EN 50290-2 / HD 624.7 S1 / VDE 0207-HM2) Outer Sheath Color : RAL7001 Grey

Reference Standards	VDE 0812
Flame Test	IEC 60332-1, VDE 0482-265-2-1
Smoke Emission	IEC 61034-2 / EN50268 (HD606) / BS7622
Corrosive Gas Measurement	IEC 60754-2 / EN50267 (HD602)

Technical and Electrical Properties (20°C)

			Cross Section	Conductor Resistance (Max. Ω/Km)	Capacitance (Core/Core nF / Km)
Operating Voltage	0.14 mm ² ...0.25 mm ²	250 V			
	0.34 mm ² ...1.50 mm ²	300 V / 500 V	0.14 mm ²	138.0	80
	2.50 mm ²	450 V / 750 V	0.22 mm ²	85.0	100
Test Voltage	0.14 mm ² ...0.25 mm ²	1200 V	0.25 mm ²	77.8	100
	0.34 mm ² ...1.00 mm ²	1500 V	0.34 mm ²	56.0	100
	1.50 mm ²	2500 V	0.50 mm ²	39.0	110
Insulation Resistance	Min. 200 M.Ωm x Km		0.75 mm ²	26.0	110
Inductance	Approx. 0.65 mH / Km		1.00 mm ²	19.5	120
Current Carrying Capacity	See Technical Data Table 4		1.50 mm ²	13.3	120
Temperature Range	Fixed	-30 °C... +70 °C	2.50 mm ²	7.98	140
	Flexible	-5 °C... +70 °C			
Minimum Bending Radius	Fixed	7.5 x Cable Diameter			
	Flexible	15 x Cable Diameter			

LIHH

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.14mm²				
20400102	2x0.14	3.3	2.6	13
20400103	3x0.14	3.5	3.9	16
20400104	4x0.14	3.7	5.2	19
20400105	5x0.14	4.0	6.5	24
20400107	7x0.14	4.4	9.1	30
20400109	9x0.14	5.1	11.6	39
20400110	10x0.14	5.4	12.9	43
20400114	14x0.14	6.0	18.1	52
20400120	20x0.14	7.1	25.8	74
20400125	25x0.14	7.9	32.2	85

0.22 mm²				
20400202	2x0.22	3.6	4.0	16
20400203	3x0.22	3.8	6.0	20
20400204	4x0.22	4.1	8.0	25
20400205	5x0.22	4.4	10.1	29
20400206	6x0.22	5.0	12.2	36
20400207	7x0.22	5.0	14.2	39
20400209	9x0.22	5.7	18.4	48
20400210	10x0.22	6.2	20.5	55
20400216	16x0.22	7.2	33.1	79
20400220	20x0.22	7.9	41.7	98
20400225	25x0.22	9.0	52.1	121

0.25 mm²				
20400302	2x0.25	3.7	4.6	17
20400303	3x0.25	4.0	6.8	22
20400304	4x0.25	4.3	9.1	27
20400305	5x0.25	4.7	11.4	34
20400306	6x0.25	5.2	13.7	39
20400307	7x0.25	5.2	16.0	44
20400309	9x0.25	6.0	20.6	54
20400310	10x0.25	6.4	22.8	61
20400316	16x0.25	7.6	37.0	89
20400320	20x0.25	8.5	46.9	108
20400325	25x0.25	9.5	57.2	131

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.34 mm²				
20400402	2x0.34	4.2	6.3	21
20400403	3x0.34	4.5	9.5	28
20400404	4x0.34	4.9	12.7	35
20400405	5x0.34	5.4	15.8	42
20400406	6x0.34	5.9	19.0	50
20400407	7x0.34	5.9	22.2	55
20400408	8x0.34	6.3	25.3	64
20400409	9x0.34	6.9	28.7	72
20400410	10x0.34	7.4	32.0	79
20400416	16x0.34	8.6	51.6	114
20400420	20x0.34	9.5	64.7	143
20400425	25x0.34	10.7	81.0	181

0.50 mm²				
20400502	2x0.50	4.7	8.3	27
20400503	3x0.50	5.0	12.6	35
20400504	4x0.50	5.3	16.8	43
20400505	5x0.50	5.9	20.9	52
20400506	6x0.50	6.5	25.1	63
20400507	7x0.50	6.5	29.4	70
20400508	8x0.50	7.3	33.8	80
20400509	9x0.50	7.7	38.0	88
20400510	10x0.50	8.3	42.2	97
20400512	12x0.50	8.7	51.1	114
20400516	16x0.50	10.0	68.1	156
20400520	20x0.50	11.0	86.0	182
20400525	25x0.50	12.0	108.0	232

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.75 mm²				
20400802	2x0.75	5.1	12.4	32
20400803	3x0.75	5.5	18.6	44
20400804	4x0.75	6.0	25.2	54
20400805	5x0.75	6.6	31.5	66
20400806	6x0.75	7.3	37.6	81
20400807	7x0.75	7.3	44.3	90
20400808	8x0.75	8.0	50.6	103
20400809	9x0.75	8.8	57.0	120
20400810	10x0.75	9.5	63.5	134
20400812	12x0.75	9.9	76.6	155
20400814	14x0.75	10.5	89.5	181
20400816	16x0.75	11.1	102.4	201
20400818	18x0.75	11.7	115.3	221
20400820	20x0.75	12.5	128.4	245
20400825	25x0.75	14.0	161.2	315

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
1.00 mm²				
20401002	2x1.00	5.6	16.6	41
20401003	3x1.00	6.0	24.8	54
20401004	4x1.00	6.6	33.1	69
20401005	5x1.00	7.2	41.6	84
20401006	6x1.00	7.9	50.1	100
20401007	7x1.00	7.9	58.5	111
20401008	8x1.00	8.6	66.9	128
20401009	9x1.00	9.5	75.6	148
20401010	10x1.00	10.2	84.3	167
20401012	12x1.00	10.5	102.2	194
20401014	14x1.00	11.3	119.2	226
20401016	16x1.00	12.1	136.2	252
20401018	18x1.00	12.7	154.0	283
20401020	20x1.00	13.6	171.9	318
20401025	25x1.00	15.0	214.9	386

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
1.50 mm²				
20401502	2x1.50	6.6	24.8	57
20401503	3x1.50	7.1	37.6	78
20401504	4x1.50	7.7	50.2	98
20401505	5x1.50	8.6	63.3	123
20401506	6x1.50	9.4	75.7	144
20401507	7x1.50	9.4	88.3	163
20401508	8x1.50	10.4	100.9	183
20401509	9x1.50	11.3	113.5	211
20401510	10x1.50	12.2	126.6	240
20401512	12x1.50	13.0	152.8	285
20401514	14x1.50	13.6	178.3	326
20401516	16x1.50	14.3	205.6	371
20401520	20x1.50	16.3	257.1	465
20401525	25x1.50	18.3	321.4	577

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
2.50 mm²				
20402502	2x2.50	7.9	41.2	86
20402503	3x2.50	8.5	61.9	118
20402504	4x2.50	9.4	83.3	155
20402505	5x2.50	10.6	104.1	192