

## DESIGN

### Conductor

Electrolytic Stranded Copper Wire

### Insulation

HFFR Insulation / Pes Tape

### Sheating Material

HFFR Outer Sheath – EN50290-2-27



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

## CHARACTERISTICS

<b>Flame Retardant</b>	IEC-EN-VDE 60332-1-2
<b>Reaction to Fire Performance:</b>	Cca,s1a, d2, a1
<b>Insulation Resistance</b>	0.22-0.34mm <sup>2</sup> 200 MΩ .km ≥ 0.50 mm <sup>2</sup> = 20 MΩ .km
<b>Min Bending Diameter</b>	10 x Diameter
<b>Conductor Standard No</b>	EN 60228
<b>Insulator colour No</b>	DIN 47100
<b>Outer sheath standard No</b>	EN 50290-2-27
<b>Outer sheath colour No</b>	RAL 7001
<b>Insulation standard No</b>	EN 50290-2-26
<b>Working Temperature</b>	-30°C + 80°C
<b>Test Voltage</b>	0.22-0.34mm <sup>2</sup> = 1200 V- ≥0.50mm <sup>2</sup> = 2000V
<b>Working Voltage</b>	0.22-0.34mm <sup>2</sup> = 250 V- ≥0.50mm <sup>2</sup> = 300/500 V

With their flexible design they can easily be used in narrow spaces, These cables are not suitable for outdoor use.

**OZ : Without Green/Yellow Earthing Core, Number Coded Cable**

**JZ : With Green/Yellow Earthing Core, Number Coded Cable**

**JB : With Green/Yellow Earthing Core, Colour Coded Cable**

## Resistance

Conductor Resistance	Mutual Capacitance	Current Carrying Capacity
0.22 mm <sup>2</sup> = 79 Ω/Km	0.22 mm <sup>2</sup> = 110 pf/m	0.22 mm <sup>2</sup> = 2.5 A
0.34 mm <sup>2</sup> = 56 Ω/Km	0.34 mm <sup>2</sup> = 110 pf/m	0.34 mm <sup>2</sup> = 4.5 A
0.50 mm <sup>2</sup> = 39 Ω/Km	0.50 mm <sup>2</sup> = 120 pf/m	0.50 mm <sup>2</sup> = 6A
0.75 mm <sup>2</sup> = 26 Ω/Km	0.75 mm <sup>2</sup> = 120 pf/m	0.75 mm <sup>2</sup> = 13A
1,0 mm <sup>2</sup> = 19.5 Ω/Km	1.0 mm <sup>2</sup> = 120 pf/m	1,0 mm <sup>2</sup> = 16 A
1,5 mm <sup>2</sup> = 13.3 Ω/Km	1.5 mm <sup>2</sup> = 120 pf/m	1.5 mm <sup>2</sup> = 20 A
2,5 mm <sup>2</sup> = 7,98 Ω/Km	2.5 mm <sup>2</sup> = 120 pf/m	2,5 mm <sup>2</sup> = 25 A

## DIMENSIONS – LIHH

Part Number	Cross Section (mm <sup>2</sup> )	Overall Diameter (mm)	Cable Weight (kg/km)
LH-001	2x0.22	3.5	15
LH-002	3x0.22	3.9	19
LH-003	4x0.22	4.2	26
LH-004	5x0.22	4.5	30
LH-005	6x0.22	4.9	36
LH-006	8x0.22	5.3	45
LH-007	10x0.22	6.1	54
LH-008	12x0.22	6.3	63
LH-009	14x0.22	7	78
LH-010	16x0.22	7.3	97
LH-011	18x0.22	7.6	100
LH-012	20x0.22	7.8	106
LH-013	2x0.34	3.9	20
LH-014	3x0.34	4.4	26
LH-015	4x0.34	4.7	33
LH-016	5x0.34	5.1	43
LH-017	6x0.34	5.5	48
LH-018	8x0.34	5.9	63
LH-019	10x0.34	7.1	84
LH-020	12x0.34	7.3	97
LH-021	14x0.34	7.9	105
LH-022	16x0.34	8.3	117
LH-023	18x0.34	8.6	128
LH-024	20x0.34	9	143
LH-025	2x0.50	5	29
LH-026	3x0.50	5.2	36
LH-027	4x0.50	5.6	44
LH-028	5x0.50	6.2	53
LH-029	6x0.50	6.7	67
LH-030	7x0.50	6.7	73
LH-031	8x0.50	7.3	88
LH-032	10x0.50	8.4	106
LH-033	12x0.50	8.7	127
LH-034	14x0.50	9.3	143
LH-035	16x0.50	9.8	160
LH-036	18x0.50	10.3	177
LH-037	20x0.50	10.8	193

## © DIMENSIONS – LIHH

<b>Part Number</b>	<b>Cross Section (mm<sup>2</sup>)</b>	<b>Overall Diameter (mm)</b>	<b>Cable Weight (kg/km)</b>
LH-038	2x0.75	5.2	34
LH-039	3x0.75	5.6	43
LH-040	4x0.75	6.1	61
LH-041	5x0.75	6.8	73
LH-042	6x0.75	7.6	87
LH-043	7x0.75	7.6	97
LH-044	8x0.75	8	114
LH-045	10x0.75	9.6	141
LH-046	12x0.75	9.9	165
LH-047	14x0.75	10.6	184
LH-048	16x0.75	11.2	207
LH-049	18x0.75	12.2	242
LH-050	20x0.75	12.6	264
LH-051	2x1	5.8	49
LH-052	3x1	6.1	64
LH-053	4x1	6.8	80
LH-054	5x1	7.3	98
LH-055	6x1	7.9	118
LH-056	7x1	7.9	122
LH-057	8x1	8.6	137
LH-058	10x1	10.3	173
LH-059	12x1	10.3	196
LH-060	14x1	11.1	225
LH-061	16x1	11.6	254
LH-062	18x1	12.6	295
LH-063	20x1	13,3	323
LH-064	2x1.5	6	60
LH-065	3x1.5	6.7	80
LH-066	4x1.5	7.3	101
LH-067	5x1.5	7.9	119
LH-068	6x1.5	8.5	141
LH-069	7x1.5	8.5	152
LH-070	8x1.5	9.4	176
LH-071	10x1.5	11.1	215
LH-072	12x1.5	11.7	261
LH-073	14x1.5	12.4	297
LH-074	16x1.5	13.1	335
LH-075	18x1.5	13.6	372
LH-076	20x1.5	13.4	409

\*\* The product and information presented in this document are for calculation only and subject to technical progress. Outer diameters are approximately \*\*