LIHCH – Signal and control cables.

DESIGN

Conductor
Electrolytic Stranded Copper Wire

Insulation
HFFR Insulation / Polyester Tape

Construction
Tinned copper wire braiding

Sheating Material
HFFR Outer Sheath – EN50290-2-22

APPLICATIONS

These screened cables are used as signal transmission cables for indoor applications. 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. Screening protects the cable from the outer electrical effects. These cables have HFFR material in their construction and they don't burn easily and if they do the flames 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

Flame Retardant	EN 60332-1-2
Reaction to Fire Performance:	B2ca,s2, d1, a1
Insulation Resistance	0.22-0.34mm² 200 MΩ .km ≥ 0.50 mm² = 20 MΩ .km
Min Bending Diameter	10 x Diameter
Conductor Standard No	EN 60228
Insulator colour No	DIN 47100
Outer sheath standard No	EN 50290-2-22
Outer sheath colour No	RAL 7032
Insulation standard No	EN 50290-2-21
Working Temperature	-30°C + 70°C
Test Voltage	0.22-0.34mm² = 1200 V- ≥0.50mm² = 2000V
Working Voltage	0.22-0.34mm² = 250 V- ≥0.50mm² = 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 mm2 = 79 Ω/Km	0.22 mm2 = 110 pf/m	0.22 mm2 = 2.5 A
0.34 mm2 = 56 Ω/Km	0.34 mm2 = 110 pf/m	0.34 mm2 = 4.5 A
0.50 mm2 = 39 Ω/Km	0.50 mm2 = 120 pf/m	0.50 mm2 = 6A
0.75 mm2 = 26 Ω/Km	0.75 mm2 = 120 pf/m	0.75 mm2 = 13A
1,0 mm2 = 19.5 Ω/Km	1.0 mm2 = 130 pf/m	1,0 mm2 = 16 A
1,5 mm2 = 13.3 Ω/Km	1.5 mm2 = 140 pf/m	1.5 mm2 = 20 A
2,5 mm2 = 7,98 Ω/Km	2.5 mm2 = 150 pf/m	2,5 mm2 = 25 A

DIMENSIONS – LIHCH

Part Number	Cross Section (mm^2)	Overall Diameter (mm)	Cable Weight (kg/km)
LCH-001	2x0.22	4,2	26
LCH-002	3x0.22	4,3	29
LCH-003	4x0.22	4,7	39
LCH-004	5x0.22	5	44
LCH-005	6x0.22	5,3	50
LCH-006	8x0.22	5,6	61
LCH-007	10x0.22	6,7	79
LCH-008	12x0.22	7,1	90
LCH-009	14x0.22	7,4	100
LCH-010	16x0.22	7,7	104
LCH-011	18x0.22	8	110
LCH-012	20x0.22	8,3	121
LCH-013	2x0.34	4,6	30
LCH-014	3x0.34	4,8	36
LCH-015	4x0.34	5,2	46
LCH-016	5x0.34	5,6	56
LCH-017	6x0.34	5,9	63
LCH-018	8x0.34	6,2	76
LCH-019	10x0.34	7,6	96
LCH-020	12x0.34	7,9	109
LCH-021	14x0.34	8,2	120
LCH-022	16x0.34	8,7	132
LCH-023	18x0.34	9,2	144
LCH-024	20x0.34	9,6	161
LCH-025	2x0.50	5,4	33
LCH-026	3x0.50	5,6	54
LCH-027	4x0.50	6,2	67
LCH-028	5x0.50	6,9	78
LCH-029	6x0.50	7,4	90
LCH-030	7x0.50	7,4	98
LCH-031	8x0.50	7,7	104
LCH-032	10x0.50	9,6	135
LCH-033	12x0.50	9,7	150
LCH-034	14x0.50	10,1	164
LCH-035	16x0.50	10,7	185
LCH-036	18x0.50	11,2	203
LCH-037	20x0.50	11,6	217

DIMENSIONS – LIHCH

Part Number	Cross Section (mm^2)	Overall Diameter (mm)	Cable Weight (kg/km)
LCH-038	2x0.75	5,8	56
LCH-039	3x0.75	6,1	67
LCH-040	4x0.75	6,7	81
LCH-041	5x0.75	7,4	99
LCH-042	6x0.75	8	109
LCH-043	7x0.75	8	115
LCH-044	8x0.75	8,4	128
LCH-045	10x0.75	10,2	162
LCH-046	12x0.75	10,5	184
LCH-047	14x0.75	11	206
LCH-048	16x0.75	11,6	230
LCH-049	18x0.75	12,6	267
LCH-050	20x0.75	13	285
LCH-051	2x1	6,2	64
LCH-052	3x1	6,7	80
LCH-053	4x1	7,2	95
LCH-054	5x1	7,9	114
LCH-055	6x1	8,5	131
LCH-056	7x1	8,5	140
LCH-057	8x1	9,2	160
LCH-058	10x1	10,9	195
LCH-059	12x1	11,3	222
LCH-060	14x1	12,2	262
LCH-061	16x1	12,4	291
LCH-062	18x1	13,6	326
LCH-063	20x1	14	350
LCH-064	2x1.5	6,8	76
LCH-065	3x1.5	7,1	93
LCH-066	4x1.5	7,7	111
LCH-067	5x1.5	8,5	136
LCH-068	6x1.5	8,7	158
LCH-069	7x1.5	8,7	170
LCH-070	8x1.5	9,8	194
LCH-071	10x1.5	12,2	248
LCH-072	12x1.5	12,5	283
LCH-073	14x1.5	13,1	321
LCH-074	16x1.5	13,9	363
LCH-075	18x1.5	14,5	402
LCH-076	20x1.5	15,5	437

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