



**Code:** LIHCH    **Standard:** TS 13755, VDE 0812, TSE K 353

- LI** : Bundle wire
- H** : HFFR (Halogen free flame retardant)
- C** : Braided Screen
- LIHCH-OB** : Cables without number, with different colored cores
- LIHCH-JB** : Cables without number, with different colored cores and cables with ground core (Yellow / Green)
- LIHCH-OZ** : White numbered core cables on insulated black
- LIHCH-JZ** : White numbered core cables on insulated black and cables with ground core (Yellow / Green)

### Technical Properties

- Operating Temperature : -5 °C / + 70 °C
- Storage Temperature : -30 °C / + 70 °C
- Min. bending radius (fixed) : 7,5 x D
- Min. bending radius (moved) : 15 x D

### Fire Performance Tests

- Vertical Flame Spread / EN 60332-1-2, IEC 60332-1-2, DIN EN 60332-1-2 (VDE 0482-332-1-2)
- Vertical Flame Spread - Category C / EN 60332-3-24, IEC 60332-3-24, DIN EN 60332-3-24 (VDE 0482-332-3-24)
- Determination of Halogen Acid Gas Amount / EN 60754-1, IEC 60754-1, DIN EN 60754-1 (VDE 0482-754-1)
- Acidity Determination and Conductivity / EN 60754-2, IEC 60754-2, DIN EN 60754-2 (VDE 0482-754-2)
- Smoke Density / EN 61034-2, IEC 61034-2, DIN EN 61034-2 (VDE 0482-1034-2)

### Construction

- 1- Flexible copper conductor / Class 5 (EN 60228, IEC 60228, DIN VDE 0295)
- 2- HFFR insulation (EN 50290-2-26)
- 3- Single twist in layers
- 4- Separator tape
- 5- Tinned Copper Wire Braid Screen
- 6- HFFR Sheath (EN 50290-2-27)

### Electrical Properties

Cross-Section (mm <sup>2</sup> )	Current Carrying Capacity (A)
0,5	6
0,75	13
1	16
1,5	20
2,5	25

### Applications

Appropriate for use in narrow space implementations thanks to its flexible structure, these cables can be used in instrument and control engineering, industrial electronics, computer and office engineering, indoor communication, audio and security systems in places with electromagnetic interference. It should be preferred in closed crowd places for its features such as keeping poisonous gas when burning, not transmitting flame and low smoke intensity.

Number of Cores and Cross-Section	Outer Diameter (Approx)	Copper Weight (Approx)	Cable Weight (Approx)	Conductor Resistance (max.)	Operating Voltage	Delivery Length
mm <sup>2</sup>	mm	kg/km	kg/km	Ω/km	(V)	m
2x0,50	5,0	14,4	32	38,9	500	100 / 500 / 1000
3x0,50	5,3	19,0	40	38,9	500	100 / 500 / 1000
4x0,50	5,8	24,0	49	38,9	500	100 / 500 / 1000
5x0,50	6,2	29,3	59	38,9	500	100 / 500 / 1000
6x0,50	6,8	34,5	70	38,9	500	100 / 500 / 1000
7x0,50	6,8	39,0	75	38,9	500	100 / 500 / 1000
8x0,50	7,5	44,3	91	38,9	500	100 / 500 / 1000
10x0,50	8,5	54,8	108	38,9	500	100 / 500 / 1000
12x0,50	8,8	64,7	119	38,9	500	100 / 500 / 1000

Number of Cores and Cross-Section	Outer Diameter (Approx)	Copper Weight (Approx)	Cable Weight (Approx)	Conductor Resistance (max.)	Operating Voltage	Delivery Length
mm <sup>2</sup>	mm	kg/km	kg/km	Ω/km	(V)	m
2x0,75	5,4	19,2	38	26,0	500	100 / 500 / 1000
3x0,75	5,7	26,3	49	26,0	500	100 / 500 / 1000
4x0,75	6,1	33,3	61	26,0	500	100 / 500 / 1000
5x0,75	6,7	41,1	74	26,0	500	100 / 500 / 1000
6x0,75	7,2	48,8	88	26,0	500	100 / 500 / 1000
7x0,75	7,2	55,6	95	26,0	500	100 / 500 / 1000
8x0,75	8,1	63,6	116	26,0	500	100 / 500 / 1000
10x0,75	9,1	78,5	138	26,0	500	100 / 500 / 1000
12x0,75	9,4	92,2	152	26,0	500	100 / 500 / 1000
2x1,0	5,8	24,3	45	19,5	500	100 / 500 / 1000
3x1,0	6,1	33,7	59	19,5	500	100 / 500 / 1000
4x1,0	6,7	43,5	74	19,5	500	100 / 500 / 1000
5x1,0	7,3	53,3	90	19,5	500	100 / 500 / 1000
6x1,0	7,9	62,9	107	19,5	500	100 / 500 / 1000
7x1,0	7,9	71,9	116	19,5	500	100 / 500 / 1000
8x1,0	8,8	81,6	141	19,5	500	100 / 500 / 1000
10x1,0	10,0	101,6	169	19,5	500	100 / 500 / 1000
12x1,0	10,3	119,5	188	19,5	500	100 / 500 / 1000
2x1,5	6,8	33,9	61	13,3	900	100 / 500 / 1000
3x1,5	7,2	47,7	82	13,3	900	100 / 500 / 1000
4x1,5	7,9	61,1	102	13,3	900	100 / 500 / 1000
5x1,5	8,6	75,8	127	13,3	900	100 / 500 / 1000
6x1,5	9,4	90,1	151	13,3	900	100 / 500 / 1000
7x1,5	9,4	103,3	164	13,3	900	100 / 500 / 1000
8x1,5	10,5	118,5	202	13,3	900	100 / 500 / 1000
10x1,5	12,2	147,2	249	13,3	900	100 / 500 / 1000
12x1,5	12,6	173,7	276	13,3	900	100 / 500 / 1000
2x2,5	7,5	49,2	81	7,98	900	100 / 500 / 1000
3x2,5	8,0	70,2	109	7,98	900	100 / 500 / 1000
4x2,5	8,7	90,7	138	7,98	900	100 / 500 / 1000
5x2,5	9,6	112,3	171	7,98	900	100 / 500 / 1000
6x2,5	10,5	134,3	205	7,98	900	100 / 500 / 1000
7x2,5	10,5	154,5	225	7,98	900	100 / 500 / 1000
8x2,5	12,0	176,4	281	7,98	900	100 / 500 / 1000
10x2,5	13,6	219,0	338	7,98	900	100 / 500 / 1000
12x2,5	14,1	259,4	377	7,98	900	100 / 500 / 1000