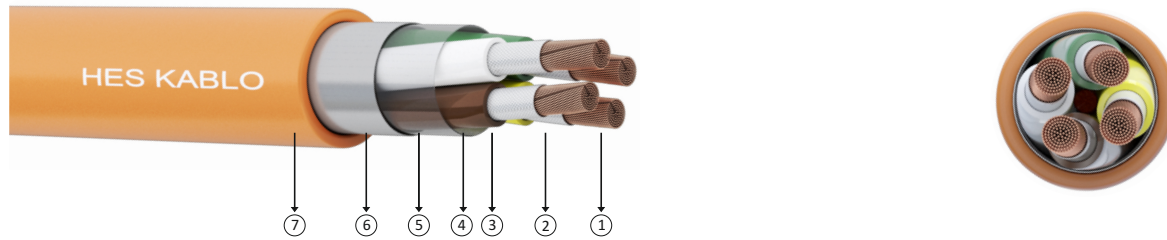


LIH(St)H FE-180



Code: LIH(St)H FE-180 **Standard:** TS 13734, VDE 0812, TSE K 178

LI : Bundle wire
H : HFFR (Halogen free flame retardant)
(St) : Aluminum foil
FE-... : Cable whose insulation continuity is determined according to the declared period. (FE-180 = 180 Minutes etc)

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

Electrical Properties

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

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)
 Circuit Integrity / IEC 60331-21, DIN IEC 60331-21 (VDE 0482-331-21)
 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- Mica Tape
- 3- HFFR insulation (EN 50290-2-26)
- 4- Single twist in layers
- 5- Separator tape
- 6- AL-PET Tape
- 7- HFFR Sheath (EN 50290-2-27)

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 and fire notification systems in places with electromagnetics 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 ²	mm	kg/km	kg/km	Ω/km	(V)	m
2x0,75	7,0	15,3	49	26,0	500	500 / 1000
3x0,75	7,4	22,0	63	26,0	500	500 / 1000
4x0,75	8,0	28,8	77	26,0	500	500 / 1000
5x0,75	8,7	35,5	94	26,0	500	500 / 1000
6x0,75	9,6	42,3	115	26,0	500	500 / 1000
7x0,75	9,6	49,0	123	26,0	500	500 / 1000
8x0,75	10,6	55,7	152	26,0	500	500 / 1000
10x0,75	12,2	69,2	188	26,0	500	500 / 1000
12x0,75	12,6	82,7	204	26,0	500	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 ²	mm	kg/km	kg/km	Ω/km	(V)	m
2x1,0	7,4	19,8	57	19,5	500	500 / 1000
3x1,0	7,8	28,8	73	19,5	500	500 / 1000
4x1,0	8,5	37,8	91	19,5	500	500 / 1000
5x1,0	9,4	46,8	116	19,5	500	500 / 1000
6x1,0	10,2	55,7	137	19,5	500	500 / 1000
7x1,0	10,2	64,7	146	19,5	500	500 / 1000
8x1,0	11,4	73,7	181	19,5	500	500 / 1000
10x1,0	13,1	91,7	223	19,5	500	500 / 1000
12x1,0	13,5	109,7	243	19,5	500	500 / 1000
2x1,5	8,4	28,1	74	13,3	900	500 / 1000
3x1,5	9,1	41,3	101	13,3	900	500 / 1000
4x1,5	9,9	54,5	126	13,3	900	500 / 1000
5x1,5	10,8	67,7	155	13,3	900	500 / 1000
6x1,5	11,9	80,8	192	13,3	900	500 / 1000
7x1,5	11,9	94,0	206	13,3	900	500 / 1000
8x1,5	13,3	107,2	255	13,3	900	500 / 1000
10x1,5	15,1	133,5	303	13,3	900	500 / 1000
12x1,5	15,6	159,8	332	13,3	900	500 / 1000
2x2,5	9,3	42,2	97	7,98	900	500 / 1000
3x2,5	9,9	62,4	129	7,98	900	500 / 1000
4x2,5	10,8	82,6	163	7,98	900	500 / 1000
5x2,5	12,0	102,8	209	7,98	900	500 / 1000
6x2,5	13,0	123,0	249	7,98	900	500 / 1000
7x2,5	13,0	143,2	269	7,98	900	500 / 1000
8x2,5	14,6	163,4	332	7,98	900	500 / 1000
10x2,5	16,7	203,7	405	7,98	900	500 / 1000
12x2,5	17,3	244,1	447	7,98	900	500 / 1000