

# HSLH Cable



## Overview

HSLH-JZ is a halogen-free flexible control cable designed for use in environments where fire safety and the protection of human life and sensitive equipment are critical priorities. Recommended for medium mechanical stresses in static or continuous motion applications without tensile stresses. Suitable for dry, wet or humid environment. It can be used in tool machinery, conveyor belts and & air-conditioners. Not recommended for high mechanical stresses and outdoor use.

## Cable structure

### Cores

Bare copper, fine wire conductors, according to DIN VDE 0295 and IEC 60228, cl.5

### Core insulation

Polyolefin LSZH (Low Smoke Zero Halogen)  
Cores stranded in layers

### Core coding

Black cores with white numbering according to DIN VDE 0293

All cables with 3 cores and above contain green/yellow earthing core in the outer layer

### Outer sheath

Special PVC of grey color RAL 7001

Self-extinguished and flame retardant according to DIN EN 60332-1-2, 60332-3-24 and 61034-2

## Technical data

### Specifications

Power and control cables made of special PVC, according to DIN VDE 0245, 0250, 0281

### Temperature range

-40°C to +80°C (Fixed); -5°C to +70°C (Moving)

### No

U<sub>0</sub>/U 300/500 V

### Insulation resistant

20 MΩ/km minimum

### Minimum bending radius

4 x Overall Diameter

(Fixed);

15 x Overall Diameter

(Moving)

No. cores x cross-sec mm <sup>2</sup>	Approximately		
	Outer diameter Ø mm	Copper weight kg/km	Cable weight kg/km
2x0.5	5.4	9.6	45
3G0.5	5.7	14.4	60
4G0.5	6.3	19.0	70
5G0.5	6.8	24.0	90
7G0.5	8.2	33.6	125
8G0.5	9.0	38.0	140
10G0.5	10.0	48.0	160
12G0.5	10.1	58.0	180
16G0.5	11.5	76.0	215
18G0.5	12.4	86.0	280
20G0.5	13.0	96.0	310

No. cores x cross-sec mm <sup>2</sup>	Approximately		
	Outer diameter Ø mm	Copper weight kg/km	Cable weight kg/km
25G0.5	15.0	120.0	330
30G0.5	15.6	144.0	390
34G0.5	17.0	163.0	420
37G0.5	17.0	178.0	480
41G0.5	18.5	197.0	510
42G0.5	18.5	202.0	530
50G0.5	20.5	240.0	580
61G0.5	22.6	293.0	980
65G0.5	22.8	312.0	1020



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No. cores x cross-sec mm <sup>2</sup>	Approximately		
	Outer diameter Ø mm	Copper weight kg/km	Cable weight kg/km
2x0.75	6.0	14.4	60
3G0.75	6.4	21.6	75
4G0.75	7.0	29.0	100
5G0.75	7.6	36.0	125
7G0.75	9.2	50.0	170
8G0.75	10.2	58.0	190
10G0.75	11.3	72.0	215
12Gx0.75	11.6	86.0	250
16Gx0.75	13.2	115.0	330
18Gx0.75	22.8	130.0	360
25G0.75	17.2	180.0	698
30G0.75	18.0	216.0	720
34G0.75	19.5	245.0	770
37G0.75	19.5	260.0	795
41G0.75	21.2	296.0	800
42G0.75	21.2	302.0	840
50G0.75	23.4	360.0	990
61G0.75	25.9	439.0	1280
65G0.75	26.9	468.0	1330
2x1.5	7.2	29.0	100
3G1.5	7.9	43.0	120
4G1.5	8.6	58.0	155
5G1.5	9.6	72.0	200
7G1.5	11.6	101.0	208
8G1.5	12.9	115.0	340
10G1.5	14.2	144.0	360
12G1.5	14.5	173.0	375
16G1.5	16.6	230.0	440
18G1.5	17.7	259.0	590
20G1.5	18.6	288.0	680
25G1.5	21.5	360.0	801
34G1.5	24.3	490.0	1050
37G1.5	24.3	533.0	1140
50G1.5	29.7	720.0	1410
61G1.5	32.6	878.0	1630
65G1.5	33.4	936.0	1810
2x2.5	8.0	48.0	150
3G2.5	8.5	72.0	180
4G2.5	9.5	96.0	236
5G2.5	10.7	120.0	296
7G2.5	13.0	168.0	363
8G2.5	14.0	192.0	378
10G2.5	15.8	240.0	444
12G2.5	16.3	288.0	571

No. cores x cross-sec mm <sup>2</sup>	Approximately		
	Outer diameter Ø mm	Copper weight kg/km	Cable weight kg/km
2x1	6.3	19.2	66
3G1	6.7	29.0	90
4G1	7.3	38.4	120
5G1	8.0	48.0	146
7G1	10.0	67.0	210
8G1	11.0	77.0	225
10G1	12.3	96.0	270
12G1	12.6	115.0	303
16G1	14.1	154.0	406
18G1	15.0	173.0	425
20G1	16.0	192.0	505
25G1	18.3	240.0	600
34G1	20.8	326.0	776
37G1	20.8	355.0	833
41G1	22.7	394.0	925
42G1	22.7	403.0	950
50G1	25.0	480.0	1030
61G1	27.6	586.0	1140
65G1	28.1	628.0	1304
2x6	12.0	115.0	266
3G6	12.7	173.0	399
4G6	14.1	230.0	590
5G6	15.8	288.0	715
7G6	17.6	403.0	963
2x10	15.0	192.0	490
3G10	16.2	288.0	750
4G10	18.0	384.0	908
5G10	19.8	480.0	1120
7G10	22.5	672.0	1460
2x16	17.3	307.0	665
3G16	18.7	461.0	998
4G16	20.6	614.0	1338
5G16	23.5	768.0	1685
7G16	26.0	1075.0	1869
3G25	24.5	720.0	1245
4G25	27.7	960.0	1661
5G25	30.8	1200.0	2099
3G35	29.8	1008.0	1664
4G35	33.7	1344.0	2210
5G35	37.7	1680.0	2765