

HSLH Control Cable-LSZH Cable

1. Product Overview

HSLH is a high-performance, halogen-free, flame-retardant industrial control cable. Designed for automation systems, machinery, and production lines, this cable features excellent flexibility, oil resistance, and safety properties, making it the ideal choice for environments where personnel and equipment safety are paramount.

2. Technical Specifications

Feature	Specification
Cable Type	HSLH (Control Cable)
Standard	Based on DIN VDE 0285-525-51
Voltage Rating	300 / 500V
Conductor	Flexible Copper (Class 5)
Insulation	Special Halogen-Free Compound
Core Identification	Black cores with white numbering + Green/Yellow earth (JZ)
Outer Sheath	Special Halogen-Free Compound (Grey)
Flame Retardancy	IEC 60332-1-2
Halogen-Free	IEC 60754-1
Smoke Density	IEC 61034-2
Max. Operating Temp.	+70°C (fixed) / +5°C to +70°C (flexing)

3. Recommended Applications

- Industrial automation and robotics
- Machine tool manufacturing and production lines
- Conveyor systems and assembly lines
- Control, measuring, and signal technology
- Public facilities with high fire safety requirements

4. Professional Support

Heron Cable provides factory-direct pricing, custom core configurations, and technical support for large-scale export projects.

5.Specification Details:

Nominal Cross-Section (n×mm2)	Max. Conductor Resistance (at 20°C, Ω/km)	Approx. Overall Diameter (mm)	Copper Index (kg/km)	Approx. Cable Weight (kg/km)
2 x 0.5	39.0	4.8	9.6	36
3 G 0.5	39.0	5.1	14.4	43
4 G 0.5	39.0	5.7	19.2	52
5 G 0.5	39.0	6.2	24.0	66
7 G 0.5	39.0	6.8	33.6	82
12 G 0.5	39.0	9.0	58.0	136
2 x 0.75	26.0	5.4	14.4	45
3 G 0.75	26.0	5.7	21.6	56
4 G 0.75	26.0	6.2	29.0	68
5 G 0.75	26.0	6.9	36.0	85
7 G 0.75	26.0	7.5	50.0	110

Nominal Cross-Section (n×mm ²)	Max. Conductor Resistance (at 20°C, Ω/km)	Approx. Overall Diameter (mm)	Copper Index (kg/km)	Approx. Cable Weight (kg/km)
12 G 0.75	26.0	10.0	86.0	180
18 G 0.75	26.0	12.0	130.0	262
25 G 0.75	26.0	14.3	180.0	360
2 x 1.0	19.5	5.8	19.2	56
3 G 1.0	19.5	6.1	29.0	69
4 G 1.0	19.5	6.6	38.0	84
5 G 1.0	19.5	7.3	48.0	104
7 G 1.0	19.5	8.1	67.0	135
12 G 1.0	19.5	10.7	115.0	225
18 G 1.0	19.5	12.8	173.0	328
2 x 1.5	13.3	6.4	29.0	74
3 G 1.5	13.3	6.8	43.0	90

Nominal Cross-Section (n×mm ²)	Max. Conductor Resistance (at 20°C, Ω/km)	Approx. Overall Diameter (mm)	Copper Index (kg/km)	Approx. Cable Weight (kg/km)
4 G 1.5	13.3	7.4	58.0	115
5 G 1.5	13.3	8.3	72.0	142
7 G 1.5	13.3	9.2	101.0	185
12 G 1.5	13.3	12.2	173.0	310
18 G 1.5	13.3	14.5	259.0	450
25 G 1.5	13.3	17.1	360.0	635
3 G 2.5	7.98	8.3	72.0	145
4 G 2.5	7.98	9.2	96.0	185
5 G 2.5	7.98	10.1	120.0	230
7 G 2.5	7.98	11.2	168.0	305
12 G 2.5	7.98	14.9	288.0	520
4 G 4.0	4.95	10.9	154.0	285

Nominal Cross-Section (n×mm ²)	Max. Conductor Resistance (at 20°C, Ω/km)	Approx. Overall Diameter (mm)	Copper Index (kg/km)	Approx. Cable Weight (kg/km)
5 G 4.0	4.95	12.3	192.0	350
4 G 6.0	3.30	13.2	230.0	415
5 G 6.0	3.30	14.7	288.0	505
4 G 10.0	1.91	16.5	384.0	685
5 G 10.0	1.91	18.3	480.0	850
4 G 16.0	1.21	19.8	614.0	1,050
4 G 25.0	0.780	24.2	960.0	1,580
4 G 35.0	0.554	27.5	1,344.0	2,150