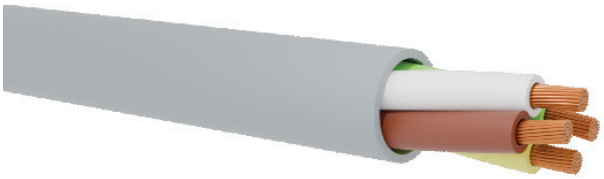
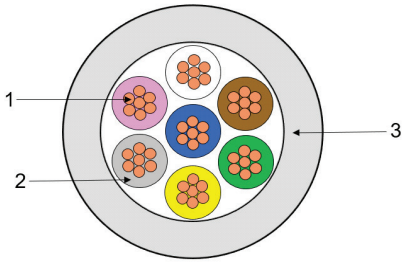
LIHH

LSZH control command cable, flexible and unshielded





1. Bare Copper Conductor Class 5 (IEC 60228)
2. LSZH Insulation, color code DIN 47100
3. LSZH Sheath


300/500 V


LSZH




Fixed Installation
≈ 7.5 × Ø extérieur



Fixed installation





APPLICATION

A **LIHH** cable is a control and signal transmission cable used primarily in applications where low current intensity is required.

- **Industrial automation: Signal transmission between sensors, actuators and programmable logic controllers (PLC). Wiring of electrical panels and control cabinets.**
- **Instrumentation and electronics: Connection of small electronic equipment. Applications requiring flexible and space-saving wiring.**
- **Communication systems: Connection of measuring, control and instrumentation devices. Low-speed data transmission in industrial environments.**
- **Security and home automation systems: Wiring of alarms, intercoms and video surveillance systems. Applications in building technical management (BTM).**

COMPLIANCE

Electrical and Construction Standards:

- DIN VDE 0812 / 0814
- IEC 60228 Class 5
- EN 50525-3-31 (specific for unshielded cables, halogen-free)

Safety and fire resistance standards:

- IEC 60332-1-2 – Non-propagation of flame on a single conductor
- IEC 60332-3 – Non-flame propagating cables in bundles (cable in conduits or cable groups)
- EN 50575 – Fire reaction requirements for construction cables (CPR) - B2ca s1 d1 a1
- IEC 60754-1 – Low emission of acidic gases (halogen-free)
- IEC 60754-2 – Low smoke emission
- IEC 61034-2 – Limited smoke density during combustion

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LSZH control command cable, flexible and unshielded

STRUCTURE

Conductors: Bare copper, multi-strand (IEC 60228, Class 5)

Conductor insulation: LSZH, color code DIN 47100

Color code: DIN 47100

Conductor assembly: Conductors twisted in layers

Outer sheath: LSZH Grey RAL 7001 according to EN50290-2-22 - B2ca s1 d1 a1

Marking: Nexkern LIHH X x Ymm² 300/500V EN50575 B2ca E02WWYY CE xxxxxxM

TECHNICAL PERFORMANCE

Rated voltage: 300/500V

Conductor resistance: According to IEC 60228 Class 5

Test Voltage: 1.5 kV

Mutual capacitance (cond.-cond.): Approximately 100 - 200 pF/m (depends on configuration)

Insulation resistance: >100 MΩ·km (at 20°C)

Bending radius:
Fixed installation: ≈ 7.5 × Ø outer
Mobile installation: ≈ 15 × Ø outer

Operating temperatures:
Fixed installation: -30°C to +70°C
Mobile installation: -5°C to +70°C

Items	Construction				Designation	Ø external diameter mm	Weight kg/km
NKLIHH2X025B2	2	X	0,25	mm²	LIHH 2X0,25 mm² LSZH B2ca	3,9	21
NKLIHH3X025B2	3	X	0,25	mm²	LIHH 3X0,25 mm² LSZH B2ca	4,1	25
NKLIHH4X025B2	4	X	0,25	mm²	LIHH 4X0,25 mm² LSZH B2ca	4,4	31
NKLIHH5X025B2	5	X	0,25	mm²	LIHH 5X0,25 mm² LSZH B2ca	4,8	35
NKLIHH7X025B2	7	X	0,25	mm²	LIHH 7X0,25 mm² LSZH B2ca	5,2	45
NKLIHH8X025B2	8	X	0,25	mm²	LIHH 8X0,25 mm² LSZH B2ca	5,6	50
NKLIHH10X025B2	10	X	0,25	mm²	LIHH 10X0,25 mm² LSZH B2ca	6,4	59
NKLIHH12X025B2	12	X	0,25	mm²	LIHH 12X0,25 mm² LSZH B2ca	6,6	68
NKLIHH19X025B2	19	X	0,25	mm²	LIHH 19X0,25 mm² LSZH B2ca	7,9	105
NKLIHH27X025B2	27	X	0,25	mm²	LIHH 27X0,25 mm² LSZH B2ca	9,3	145
NKLIHH37X025B2	37	X	0,25	mm²	LIHH 37X0,25 mm² LSZH B2ca	10,4	185
NKLIHH2X034B2	2	X	0,34	mm²	LIHH 2X0,34 mm² LSZH B2ca	4,1	24
NKLIHH3X034B2	3	X	0,34	mm²	LIHH 3X0,34 mm² LSZH B2ca	4,3	29
NKLIHH4X034B2	4	X	0,34	mm²	LIHH 4X0,34 mm² LSZH B2ca	4,7	35
NKLIHH5X034B2	5	X	0,34	mm²	LIHH 5X0,34 mm² LSZH B2ca	5,1	41
NKLIHH7X034B2	7	X	0,34	mm²	LIHH 7X0,34 mm² LSZH B2ca	5,5	52
NKLIHH8X034B2	8	X	0,34	mm²	LIHH 8X0,34 mm² LSZH B2ca	5,9	58
NKLIHH10X034B2	10	X	0,34	mm²	LIHH 10X0,34 mm² LSZH B2ca	6,8	70
NKLIHH12X034B2	12	X	0,34	mm²	LIHH 12X0,34 mm² LSZH B2ca	7,0	81
NKLIHH19X034B2	19	X	0,34	mm²	LIHH 19X0,34 mm² LSZH B2ca	8,4	135
NKLIHH27X034B2	27	X	0,34	mm²	LIHH 27X0,34 mm² LSZH B2ca	9,9	175
NKLIHH37X034B2	37	X	0,34	mm²	LIHH 37X0,34 mm² LSZH B2ca	11,3	235
NKLIHH2X050B2	2	X	0,5	mm²	LIHH 2X0,50 mm² LSZH B2ca	4,8	30
NKLIHH3X050B2	3	X	0,5	mm²	LIHH 3X0,50 mm² LSZH B2ca	5,1	38
NKLIHH4X050B2	4	X	0,5	mm²	LIHH 4X0,50 mm² LSZH B2ca	5,5	46

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Items	Construction				Designation	Ø external diameter mm	Weight kg/ km
NKLIHH5X050B2	5	X	0,5	mm²	LIHH 5X0,50 mm² LSZH B2ca	6,0	56
NKLIHH7X050B2	7	X	0,5	mm²	LIHH 7X0,50 mm² LSZH B2ca	6,5	71
NKLIHH8X050B2	8	X	0,5	mm²	LIHH 8X0,50 mm² LSZH B2ca	7,1	79
NKLIHH10X050B2	10	X	0,5	mm²	LIHH 10X0,50 mm² LSZH B2ca	8,4	101
NKLIHH12X050B2	12	X	0,5	mm²	LIHH 12X0,50 mm² LSZH B2ca	8,7	117
NKLIHH19X050B2	19	X	0,5	mm²	LIHH 19X0,50 mm² LSZH B2ca	10,6	185
NKLIHH27X050B2	27	X	0,5	mm²	LIHH 27X0,50 mm² LSZH B2ca	13,0	272
NKLIHH37X050B2	37	X	0,5	mm²	LIHH 37X0,50 mm² LSZH B2ca	16,0	390
NKLIHH2X075B2	2	X	0,75	mm²	LIHH 2X0,75 mm² LSZH B2ca	5,2	40
NKLIHH3X075B2	3	X	0,75	mm²	LIHH 3X0,75 mm² LSZH B2ca	5,5	50
NKLIHH4X075B2	4	X	0,75	mm²	LIHH 4X0,75 mm² LSZH B2ca	6,0	61
NKLIHH5X075B2	5	X	0,75	mm²	LIHH 5X0,75 mm² LSZH B2ca	6,6	73
NKLIHH7X075B2	7	X	0,75	mm²	LIHH 7X0,75 mm² LSZH B2ca	7,1	93
NKLIHH8X075B2	8	X	0,75	mm²	LIHH 8X0,75 mm² LSZH B2ca	7,7	105
NKLIHH10X075B2	10	X	0,75	mm²	LIHH 10X0,75 mm² LSZH B2ca	9,2	132
NKLIHH12X075B2	12	X	0,75	mm²	LIHH 12X0,75 mm² LSZH B2ca	9,5	154
NKLIHH19X075B2	19	X	0,75	mm²	LIHH 19X0,75 mm² LSZH B2ca	11,3	235
NKLIHH27X075B2	27	X	0,75	mm²	LIHH 27X0,75 mm² LSZH B2ca	13,7	335
NKLIHH37X075B2	37	X	0,75	mm²	LIHH 37X0,75 mm² LSZH B2ca	15,3	445

PACKAGING:

Couronnes thermofilmées : 50m, 100m

Tourets contraplaqués ou bois : 500m, 1000m, 3000m, 5000m

ADDITIONAL VERSIONS:

CPR **Dca s2 d2 a2**

CPR **Cca s1 d1 a1**

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