



### Application

- Due to its flexible construction, could be used in narrow spaces.
- At instrumentation and control engineering.
- At industrial electronics.
- As a measurement and control cable in machinery.
- In production and assembly lines.
- Wet, dry and moist places.
- For applications with medium level mechanical stress.
- In places where human life, valuable materials and equipments need to be protected.
- Fuel oil pumps.

### Cable Construction

- 1 - Conductor : Stranded electrolytic annealed copper conductor (Class 5) (IEC 60228, EN 60228, DIN VDE 0295)
- 2 - Insulation : Halogen-free (DIN VDE 0207, EN 50363-3, TS EN 50290-2-26 T12), Black insulation, white number coded (DIN VDE 0293, TS EN 50334)
- 3 - Stranding : In layers
- 4 - Wrapping : Polyester tape
- 5 - Screen : Tinned copper braiding
- 4 - Outer Jacket: UV resistant halogen-free outer jacket (TS EN 50290-2-27). RAL 7001 (Grey)

### Technical Characteristics

Cross Section	Conductor Resistance $\Omega/\text{km}$ (20 °C)	Insulation Resistance $\text{M}\Omega/\text{km}$	Current Carrying Capacity A	Test Voltage V (DC, 1 minute)	Operating Voltage V DC
0.50 mm <sup>2</sup>	39.0	20	9	2500	450/750
0.75 mm <sup>2</sup>	26.0	20	12	2500	450/750
1.00 mm <sup>2</sup>	19.5	20	15	2500	450/750
1.5 mm <sup>2</sup>	13.3	20	18	2500	450/750
2.5 mm <sup>2</sup>	7.98	20	26	2500	450/750
4.0 mm <sup>2</sup>	4.95	20	34	2500	450/750
6.0 mm <sup>2</sup>	3.30	20	44	2500	450/750
10.0 mm <sup>2</sup>	1.91	20	61	2500	450/750
16.0 mm <sup>2</sup>	1.21	20	82	2500	450/750

### Mechanical Characteristics

Bending Radius	Temperature Range Operating
7.5xD mm	-30°C~+70°C

### Standards

Smoke Density Test	Corrosive Gas Test	Halogen-free Test	Flame Retardancy Test
IEC 61034-2, VDE 0482-1034-2, EN 61034-2	IEC 60754-2, VDE 0482-267-2-3, EN 50267-2-3	IEC 60754-1, VDE 0482-267-2-1, EN 50267-2-1	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2

#### Notes

Electromagnetic compatibility (EMC)  
 Color code could be JZ, OZ, JB, OB according to customer demand.  
 For cables with two cores, Yellow/Green earthing wire is not included.  
 Reference Standard: DIN EN 50525-2-51, VDE 0285-525-2-51

## NHSLCH-JZ

Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.611.3.3.3.0050.0.0002	2	0.5	6.5	25.4	64	100/500/1000
3.611.3.3.3.0050.0.0003	3	0.5	7.0	30.0	76	100/500/1000
3.611.3.3.3.0050.0.0004	4	0.5	7.5	36.3	89	100/500/1000
3.611.3.3.3.0050.0.0005	5	0.5	8.3	42.4	105	100/500/1000
3.611.3.3.3.0050.0.0006	6	0.5	9.1	51.5	120	100/500/1000
3.611.3.3.3.0050.0.0007	7	0.5	9.1	55.9	131	100/500/1000
3.611.3.3.3.0050.0.0008	8	0.5	9.8	60.5	149	100/500/1000
3.611.3.3.3.0050.0.0009	9	0.5	11.6	69.8	170	100/500/1000
3.611.3.3.3.0050.0.0010	10	0.5	11.6	74.2	173	100/500/1000
3.611.3.3.3.0050.0.0012	12	0.5	12.0	83.6	193	100/500/1000
3.611.3.3.3.0050.0.0014	14	0.5	12.7	96.8	221	100/500/1000
3.611.3.3.3.0050.0.0016	16	0.5	13.4	108.7	247	100/500/1000
3.611.3.3.3.0050.0.0018	18	0.5	14.1	118.7	275	100/500/1000
3.611.3.3.3.0050.0.0020	20	0.5	15.0	139.2	306	100/500/1000
3.611.3.3.3.0050.0.0024	24	0.5	16.8	164.1	368	100/500/1000
3.611.3.3.3.0050.0.0025	25	0.5	16.8	168.5	387	100/500/1000
3.611.3.3.3.0050.0.0027	27	0.5	17.2	178.2	397	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.611.3.3.3.0075.0.0002	2	0.75	6.9	30.0	69	100/500/1000
3.611.3.3.3.0075.0.0003	3	0.75	7.3	37.5	83	100/500/1000
3.611.3.3.3.0075.0.0004	4	0.75	8.0	45.5	99	100/500/1000
3.611.3.3.3.0075.0.0005	5	0.75	8.7	56.4	123	100/500/1000
3.611.3.3.3.0075.0.0006	6	0.75	9.5	64.7	141	100/500/1000
3.611.3.3.3.0075.0.0007	7	0.75	9.5	71.3	147	100/500/1000
3.611.3.3.3.0075.0.0008	8	0.75	10.4	79.4	171	100/500/1000
3.611.3.3.3.0075.0.0009	9	0.75	12.3	94.1	203	100/500/1000
3.611.3.3.3.0075.0.0010	10	0.75	12.3	100.7	209	100/500/1000
3.611.3.3.3.0075.0.0012	12	0.75	12.7	114.5	233	100/500/1000
3.611.3.3.3.0075.0.0014	14	0.75	13.4	130.7	265	100/500/1000
3.611.3.3.3.0075.0.0016	16	0.75	14.1	145.1	292	100/500/1000
3.611.3.3.3.0075.0.0018	18	0.75	15.0	170.0	346	100/500/1000
3.611.3.3.3.0075.0.0020	20	0.75	15.9	184.9	365	100/500/1000
3.611.3.3.3.0075.0.0024	24	0.75	17.9	219.3	443	100/500/1000
3.611.3.3.3.0075.0.0025	25	0.75	17.9	225.9	466	100/500/1000
3.611.3.3.3.0075.0.0027	27	0.75	18.3	240.1	480	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.611.3.3.3.0100.0.0002	2	1	7.3	34.2	77	100/500/1000
3.611.3.3.3.0100.0.0003	3	1	7.7	43.6	94	100/500/1000
3.611.3.3.3.0100.0.0004	4	1	8.5	53.6	113	100/500/1000
3.611.3.3.3.0100.0.0005	5	1	9.3	66.3	143	100/500/1000
3.611.3.3.3.0100.0.0006	6	1	10.2	75.0	163	100/500/1000
3.611.3.3.3.0100.0.0007	7	1	10.2	83.3	169	100/500/1000
3.611.3.3.3.0100.0.0008	8	1	11.2	94.4	199	100/500/1000

## NHSLCH-JZ

3.611.3.3.3.0100.0.0009	9	1	13.1	112.2	233	100/500/1000
3.611.3.3.3.0100.0.0010	10	1	13.1	120.4	240	100/500/1000
3.611.3.3.3.0100.0.0012	12	1	13.6	137.7	273	100/500/1000
3.611.3.3.3.0100.0.0014	14	1	14.3	162.5	311	100/500/1000
3.611.3.3.3.0100.0.0016	16	1	15.2	183.6	350	100/500/1000
3.611.3.3.3.0100.0.0018	18	1	16.1	201.8	393	100/500/1000
3.611.3.3.3.0100.0.0020	20	1	17.2	224.4	432	100/500/1000
3.611.3.3.3.0100.0.0024	24	1	19.3	262.2	520	100/500/1000
3.611.3.3.3.0100.0.0025	25	1	19.3	270.4	547	100/500/1000
3.611.3.3.3.0100.0.0027	27	1	19.7	288.0	564	100/500/1000

Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.611.3.3.3.0150.0.0002	2	1.5	7.7	44.5	91	100/500/1000
3.611.3.3.3.0150.0.0003	3	1.5	8.2	58.9	114	100/500/1000
3.611.3.3.3.0150.0.0004	4	1.5	9.1	76.5	142	100/500/1000
3.611.3.3.3.0150.0.0005	5	1.5	9.9	89.6	171	100/500/1000
3.611.3.3.3.0150.0.0006	6	1.5	10.8	105.3	198	100/500/1000
3.611.3.3.3.0150.0.0007	7	1.5	10.8	118.1	209	100/500/1000
3.611.3.3.3.0150.0.0008	8	1.5	11.8	133.4	244	100/500/1000
3.611.3.3.3.0150.0.0009	9	1.5	14.0	155.0	286	100/500/1000
3.611.3.3.3.0150.0.0010	10	1.5	14.0	167.9	297	100/500/1000
3.611.3.3.3.0150.0.0012	12	1.5	14.6	201.6	346	100/500/1000
3.611.3.3.3.0150.0.0014	14	1.5	15.3	231.9	391	100/500/1000
3.611.3.3.3.0150.0.0016	16	1.5	16.2	259.4	437	100/500/1000
3.611.3.3.3.0150.0.0018	18	1.5	17.3	291.1	500	100/500/1000
3.611.3.3.3.0150.0.0020	20	1.5	18.4	319.4	545	100/500/1000
3.611.3.3.3.0150.0.0024	24	1.5	20.7	376.1	655	100/500/1000
3.611.3.3.3.0150.0.0025	25	1.5	20.7	388.9	688	100/500/1000
3.611.3.3.3.0150.0.0027	27	1.5	21.2	415.8	725	100/500/1000

Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.611.3.3.3.0250.0.0002	2	2.5	9.3	67.8	134	100/500/1000
3.611.3.3.3.0250.0.0003	3	2.5	9.9	89.6	166	100/500/1000
3.611.3.3.3.0250.0.0004	4	2.5	10.8	113.8	204	100/500/1000
3.611.3.3.3.0250.0.0005	5	2.5	12.0	137.9	256	100/500/1000
3.611.3.3.3.0250.0.0006	6	2.5	13.2	166.6	300	100/500/1000
3.611.3.3.3.0250.0.0007	7	2.5	13.2	188.0	317	100/500/1000
3.611.3.3.3.0250.0.0008	8	2.5	14.5	218.6	380	100/500/1000
3.611.3.3.3.0250.0.0009	9	2.5	17.2	252.4	446	100/500/1000
3.611.3.3.3.0250.0.0010	10	2.5	17.2	273.8	463	100/500/1000
3.611.3.3.3.0250.0.0012	12	2.5	18.0	318.2	535	100/500/1000
3.611.3.3.3.0250.0.0014	14	2.5	18.9	363.5	602	100/500/1000
3.611.3.3.3.0250.0.0016	16	2.5	20.1	409.2	679	100/500/1000
3.611.3.3.3.0250.0.0018	18	2.5	21.6	455.0	781	100/500/1000
3.611.3.3.3.0250.0.0020	20	2.5	23.0	501.2	851	100/500/1000
3.611.3.3.3.0250.0.0024	24	2.5	25.7	593.9	1019	100/500/1000
3.611.3.3.3.0250.0.0025	25	2.5	25.7	612.7	1056	100/500/1000
3.611.3.3.3.0250.0.0027	27	2.5	26.5	659.8	1125	100/500/1000

## NHSLCH-JZ

Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.611.3.3.3.0400.0.0002	2	4	10.7	95.4	180	100/500/1000
3.611.3.3.3.0400.0.0003	3	4	11.5	132.9	233	100/500/1000
3.611.3.3.3.0400.0.0004	4	4	12.6	172.3	290	100/500/1000
3.611.3.3.3.0400.0.0005	5	4	13.9	210.7	365	100/500/1000
3.611.3.3.3.0400.0.0006	6	4	15.3	257.6	431	100/500/1000
3.611.3.3.3.0400.0.0007	7	4	15.3	291.9	458	100/500/1000
3.611.3.3.3.0400.0.0008	8	4	17.0	331.7	544	100/500/1000
3.611.3.3.3.0400.0.0009	9	4	20.4	375.2	644	100/500/1000
3.611.3.3.3.0400.0.0010	10	4	20.4	409.5	671	100/500/1000
3.611.3.3.3.0400.0.0012	12	4	21.1	480.0	766	100/500/1000
3.611.3.3.3.0400.0.0014	14	4	22.4	551.9	875	100/500/1000
3.611.3.3.3.0400.0.0016	16	4	23.7	660.7	1036	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.611.3.3.3.0600.0.0002	2	6	12.5	137.8	251	100/500/1000
3.611.3.3.3.0600.0.0003	3	6	13.4	192.5	326	100/500/1000
3.611.3.3.3.0600.0.0004	4	6	14.8	256.5	398	100/500/1000
3.611.3.3.3.0600.0.0005	5	6	16.3	311.0	505	100/500/1000
3.611.3.3.3.0600.0.0006	6	6	18.2	370.3	615	100/500/1000
3.611.3.3.3.0600.0.0007	7	6	18.2	421.7	656	100/500/1000
3.611.3.3.3.0600.0.0008	8	6	20.0	477.4	768	100/500/1000
3.611.3.3.3.0600.0.0009	9	6	24.2	538.7	898	100/500/1000
3.611.3.3.3.0600.0.0010	10	6	24.2	590.1	954	100/500/1000
3.611.3.3.3.0600.0.0012	12	6	25.2	695.3	1105	100/500/1000
3.611.3.3.3.0600.0.0014	14	6	26.7	813.7	1270	100/500/1000
3.611.3.3.3.0600.0.0016	16	6	28.4	949.7	1462	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.611.3.3.3.1000.0.0002	2	10	15.1	229.5	387	100/500/1000
3.611.3.3.3.1000.0.0003	3	10	16.2	320.6	506	100/500/1000
3.611.3.3.3.1000.0.0004	4	10	18.2	417.5	646	100/500/1000
3.611.3.3.3.1000.0.0005	5	10	20.4	511.5	806	100/500/1000
3.611.3.3.3.1000.0.0006	6	10	22.4	605.7	943	100/500/1000
3.611.3.3.3.1000.0.0007	7	10	22.4	694.7	1035	100/500/1000
3.611.3.3.3.1000.0.0008	8	10	24.8	789.3	1202	100/500/1000
3.611.3.3.3.1000.0.0009	9	10	29.6	891.0	1402	100/500/1000
3.611.3.3.3.1000.0.0010	10	10	29.6	980.0	1494	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.611.3.3.3.1600.0.0002	2	16	18.0	319.6	540	100/500/1000
3.611.3.3.3.1600.0.0003	3	16	19.4	485.3	744	100/500/1000
3.611.3.3.3.1600.0.0004	4	16	21.7	630.7	945	100/500/1000
3.611.3.3.3.1600.0.0005	5	16	24.2	777.1	1171	100/500/1000
3.611.3.3.3.1600.0.0006	6	16	26.9	962.8	1422	100/500/1000
3.611.3.3.3.1600.0.0007	7	16	26.9	1.103.4	1570	100/500/1000
3.611.3.3.3.1600.0.0008	8	16	29.4	1.252.3	1794	100/500/1000
3.611.3.3.3.1600.0.0009	9	16	34.5	1.431.3	2049	100/500/1000
3.611.3.3.3.1600.0.0010	10	16	34.5	1.571.6	2196	100/500/1000