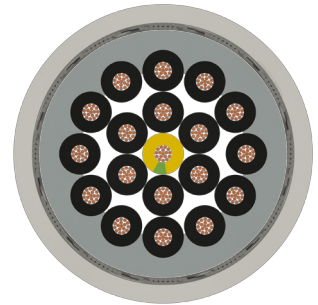
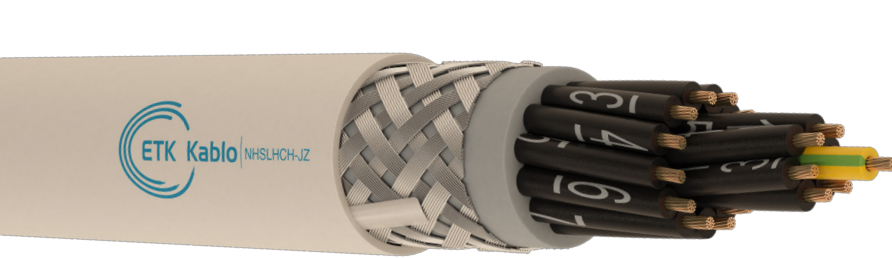


Control Cables

NHSLHCH-JZ

RoHS REACH 



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 TI2), Black insulation, white number coded (DIN VDE 0293, TS EN 50334)
- 3 - Stranding : In layers
- 4 - Inner Jacket : UV resistant halogen-free inner jacket (TS EN 50290-2-27). RAL 7001 (Grey)
- 5 - Screen : Tinned copper braiding
- 6 - Outer Jacket : UV resistant halogen-free outer jacket (TS EN 50290-2-27). RAL 7001 (Grey)

Technical Characteristics

Cross Section	Conductor Resistance Ω/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 ²	39.0	20	9	2500	450/750
0.75 mm ²	26.0	20	12	2500	450/750
1.00 mm ²	19.5	20	15	2500	450/750
1.5 mm ²	13.3	20	18	2500	450/750
2.5 mm ²	7.98	20	26	2500	450/750
4.0 mm ²	4.95	20	34	2500	450/750
6.0 mm ²	3.30	20	44	2500	450/750
10.0 mm ²	1.91	20	61	2500	450/750
16.0 mm ²	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 compatability (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

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Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.612.3.3.3.0050.0.0002	2	0.5	7.9	30.5	91	100/500/1000
3.612.3.3.3.0050.0.0003	3	0.5	8.3	36.5	104	100/500/1000
3.612.3.3.3.0050.0.0004	4	0.5	9.1	46.5	127	100/500/1000
3.612.3.3.3.0050.0.0005	5	0.5	9.9	53.7	147	100/500/1000
3.612.3.3.3.0050.0.0006	6	0.5	10.6	54.7	161	100/500/1000
3.612.3.3.3.0050.0.0007	7	0.5	10.6	59.1	168	100/500/1000
3.612.3.3.3.0050.0.0008	8	0.5	11.5	67.9	197	100/500/1000
3.612.3.3.3.0050.0.0009	9	0.5	13.3	85.8	240	100/500/1000
3.612.3.3.3.0050.0.0010	10	0.5	13.3	90.2	243	100/500/1000
3.612.3.3.3.0050.0.0012	12	0.5	13.8	99.8	268	100/500/1000
3.612.3.3.3.0050.0.0014	14	0.5	14.5	112.7	298	100/500/1000
3.612.3.3.3.0050.0.0016	16	0.5	15.3	123.2	327	100/500/1000
3.612.3.3.3.0050.0.0018	18	0.5	16.0	137.4	366	100/500/1000
3.612.3.3.3.0050.0.0020	20	0.5	16.9	167.6	406	100/500/1000
3.612.3.3.3.0050.0.0024	24	0.5	18.7	196.2	480	100/500/1000
3.612.3.3.3.0050.0.0025	25	0.5	18.7	200.6	499	100/500/1000
3.612.3.3.3.0050.0.0027	27	0.5	19.1	210.4	511	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.612.3.3.3.0075.0.0002	2	0.75	8.2	36.4	100	100/500/1000
3.612.3.3.3.0075.0.0003	3	0.75	8.7	48.3	122	100/500/1000
3.612.3.3.3.0075.0.0004	4	0.75	9.5	57.6	142	100/500/1000
3.612.3.3.3.0075.0.0005	5	0.75	10.3	59.8	165	100/500/1000
3.612.3.3.3.0075.0.0006	6	0.75	11.2	71.9	191	100/500/1000
3.612.3.3.3.0075.0.0007	7	0.75	11.2	78.5	196	100/500/1000
3.612.3.3.3.0075.0.0008	8	0.75	12.1	87.8	228	100/500/1000
3.612.3.3.3.0075.0.0009	9	0.75	14.1	106.8	276	100/500/1000
3.612.3.3.3.0075.0.0010	10	0.75	14.1	113.4	282	100/500/1000
3.612.3.3.3.0075.0.0012	12	0.75	14.5	130.5	311	100/500/1000
3.612.3.3.3.0075.0.0014	14	0.75	15.3	145.2	345	100/500/1000
3.612.3.3.3.0075.0.0016	16	0.75	16.1	163.9	383	100/500/1000
3.612.3.3.3.0075.0.0018	18	0.75	16.9	198.4	439	100/500/1000
3.612.3.3.3.0075.0.0020	20	0.75	17.9	213.6	474	100/500/1000
3.612.3.3.3.0075.0.0024	24	0.75	19.8	252.1	562	100/500/1000
3.612.3.3.3.0075.0.0025	25	0.75	19.8	258.7	584	100/500/1000
3.612.3.3.3.0075.0.0027	27	0.75	20.3	273.0	605	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.612.3.3.3.0100.0.0002	2	1	8.7	45.0	116	100/500/1000
3.612.3.3.3.0100.0.0003	3	1	9.3	55.7	138	100/500/1000
3.612.3.3.3.0100.0.0004	4	1	10.0	59.6	154	100/500/1000
3.612.3.3.3.0100.0.0005	5	1	10.9	69.8	188	100/500/1000
3.612.3.3.3.0100.0.0006	6	1	12.0	84.3	220	100/500/1000
3.612.3.3.3.0100.0.0007	7	1	12.0	92.5	226	100/500/1000
3.612.3.3.3.0100.0.0008	8	1	12.9	104.2	261	100/500/1000
3.612.3.3.3.0100.0.0009	9	1	15.0	126.6	315	100/500/1000

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3.612.3.3.3.0100.0.0010	10	1	15.0	134.8	322	100/500/1000
3.612.3.3.3.0100.0.0012	12	1	15.5	152.3	354	100/500/1000
3.612.3.3.3.0100.0.0014	14	1	16.3	194.0	415	100/500/1000
3.612.3.3.3.0100.0.0016	16	1	17.1	212.0	451	100/500/1000
3.612.3.3.3.0100.0.0018	18	1	18.2	237.6	514	100/500/1000
3.612.3.3.3.0100.0.0020	20	1	19.1	256.5	547	100/500/1000
3.612.3.3.3.0100.0.0024	24	1	21.1	295.3	640	100/500/1000
3.612.3.3.3.0100.0.0025	25	1	21.1	303.5	667	100/500/1000
3.612.3.3.3.0100.0.0027	27	1	21.5	331.2	695	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.612.3.3.3.0150.0.0002	2	1.5	9.2	56.6	135	100/500/1000
3.612.3.3.3.0150.0.0003	3	1.5	9.8	70.2	159	100/500/1000
3.612.3.3.3.0150.0.0004	4	1.5	10.6	79.7	182	100/500/1000
3.612.3.3.3.0150.0.0005	5	1.5	11.6	98.7	223	100/500/1000
3.612.3.3.3.0150.0.0006	6	1.5	12.7	114.9	262	100/500/1000
3.612.3.3.3.0150.0.0007	7	1.5	12.7	127.8	272	100/500/1000
3.612.3.3.3.0150.0.0008	8	1.5	13.6	149.5	315	100/500/1000
3.612.3.3.3.0150.0.0009	9	1.5	15.8	169.8	370	100/500/1000
3.612.3.3.3.0150.0.0010	10	1.5	15.8	182.7	380	100/500/1000
3.612.3.3.3.0150.0.0012	12	1.5	16.5	233.1	448	100/500/1000
3.612.3.3.3.0150.0.0014	14	1.5	17.4	260.6	501	100/500/1000
3.612.3.3.3.0150.0.0016	16	1.5	18.3	295.2	559	100/500/1000
3.612.3.3.3.0150.0.0018	18	1.5	19.2	323.3	615	100/500/1000
3.612.3.3.3.0150.0.0020	20	1.5	20.4	352.3	671	100/500/1000
3.612.3.3.3.0150.0.0024	24	1.5	22.6	420.7	798	100/500/1000
3.612.3.3.3.0150.0.0025	25	1.5	22.6	433.6	831	100/500/1000
3.612.3.3.3.0150.0.0027	27	1.5	23.1	461.0	859	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.612.3.3.3.0250.0.0002	2	2.5	10.9	71.4	179	100/500/1000
3.612.3.3.3.0250.0.0003	3	2.5	11.6	98.7	221	100/500/1000
3.612.3.3.3.0250.0.0004	4	2.5	12.7	123.5	267	100/500/1000
3.612.3.3.3.0250.0.0005	5	2.5	13.8	154.2	331	100/500/1000
3.612.3.3.3.0250.0.0006	6	2.5	15.1	181.0	382	100/500/1000
3.612.3.3.3.0250.0.0007	7	2.5	15.1	202.4	399	100/500/1000
3.612.3.3.3.0250.0.0008	8	2.5	16.4	250.0	481	100/500/1000
3.612.3.3.3.0250.0.0009	9	2.5	19.1	284.6	561	100/500/1000
3.612.3.3.3.0250.0.0010	10	2.5	19.1	306.0	578	100/500/1000
3.612.3.3.3.0250.0.0012	12	2.5	19.9	351.1	654	100/500/1000
3.612.3.3.3.0250.0.0014	14	2.5	20.9	396.5	730	100/500/1000
3.612.3.3.3.0250.0.0016	16	2.5	22.1	453.5	824	100/500/1000
3.612.3.3.3.0250.0.0018	18	2.5	23.3	500.4	917	100/500/1000
3.612.3.3.3.0250.0.0020	20	2.5	24.8	548.5	1000	100/500/1000
3.612.3.3.3.0250.0.0024	24	2.5	27.4	644.4	1178	100/500/1000
3.612.3.3.3.0250.0.0025	25	2.5	27.4	663.2	1215	100/500/1000
3.612.3.3.3.0250.0.0027	27	2.5	28.0	710.8	1274	100/500/1000

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Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.612.3.3.3.0400.0.0002	2	4	12.4	104.0	239	100/500/1000
3.612.3.3.3.0400.0.0003	3	4	13.2	148.9	302	100/500/1000
3.612.3.3.3.0400.0.0004	4	4	14.5	188.3	368	100/500/1000
3.612.3.3.3.0400.0.0005	5	4	15.8	225.4	447	100/500/1000
3.612.3.3.3.0400.0.0006	6	4	17.4	286.4	542	100/500/1000
3.612.3.3.3.0400.0.0007	7	4	17.4	320.7	569	100/500/1000
3.612.3.3.3.0400.0.0008	8	4	18.9	363.8	658	100/500/1000
3.612.3.3.3.0400.0.0009	9	4	22.3	419.6	785	100/500/1000
3.612.3.3.3.0400.0.0010	10	4	22.3	453.9	812	100/500/1000
3.612.3.3.3.0400.0.0012	12	4	23.0	525.0	911	100/500/1000
3.612.3.3.3.0400.0.0014	14	4	24.3	598.4	1027	100/500/1000
3.612.3.3.3.0400.0.0016	16	4	25.6	671.7	1143	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.612.3.3.3.0600.0.0002	2	6	14.3	153.7	328	100/500/1000
3.612.3.3.3.0600.0.0003	3	6	15.2	207.1	406	100/500/1000
3.612.3.3.3.0600.0.0004	4	6	16.7	284.9	497	100/500/1000
3.612.3.3.3.0600.0.0005	5	6	18.4	346.9	639	100/500/1000
3.612.3.3.3.0600.0.0006	6	6	20.2	403.2	740	100/500/1000
3.612.3.3.3.0600.0.0007	7	6	20.2	454.6	780	100/500/1000
3.612.3.3.3.0600.0.0008	8	6	22.0	521.6	912	100/500/1000
3.612.3.3.3.0600.0.0009	9	6	25.8	587.0	1042	100/500/1000
3.612.3.3.3.0600.0.0010	10	6	25.8	638.4	1098	100/500/1000
3.612.3.3.3.0600.0.0012	12	6	26.9	745.3	1261	100/500/1000
3.612.3.3.3.0600.0.0014	14	6	28.2	853.1	1410	100/500/1000
3.612.3.3.3.0600.0.0016	16	6	29.7	961.9	1575	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.612.3.3.3.1000.0.0002	2	10	17.0	257.9	488	100/500/1000
3.612.3.3.3.1000.0.0003	3	10	18.3	356.4	605	100/500/1000
3.612.3.3.3.1000.0.0004	4	10	20.1	450.4	766	100/500/1000
3.612.3.3.3.1000.0.0005	5	10	22.2	555.8	941	100/500/1000
3.612.3.3.3.1000.0.0006	6	10	24.4	652.6	1102	100/500/1000
3.612.3.3.3.1000.0.0007	7	10	24.4	741.7	1193	100/500/1000
3.612.3.3.3.1000.0.0008	8	10	26.7	839.0	1368	100/500/1000
3.612.3.3.3.1000.0.0009	9	10	31.3	962.9	1598	100/500/1000
3.612.3.3.3.1000.0.0010	10	10	31.3	1051.9	1689	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.612.3.3.3.1600.0.0002	2	16	19.9	366.1	670	100/500/1000
3.612.3.3.3.1600.0.0003	3	16	21.1	518.1	829	100/500/1000
3.612.3.3.3.1600.0.0004	4	16	23.4	675.8	1082	100/500/1000
3.612.3.3.3.1600.0.0005	5	16	25.8	825.1	1314	100/500/1000
3.612.3.3.3.1600.0.0006	6	16	28.3	974.9	1536	100/500/1000
3.612.3.3.3.1600.0.0007	7	16	28.3	1115.1	1684	100/500/1000
3.612.3.3.3.1600.0.0008	8	16	30.8	1264.6	1918	100/500/1000
3.612.3.3.3.1600.0.0009	9	16	36.2	1447.1	2220	100/500/1000
3.612.3.3.3.1600.0.0010	10	16	36.2	1587.3	2368	100/500/1000