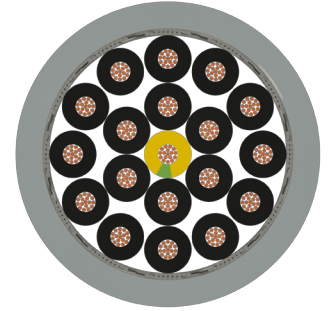
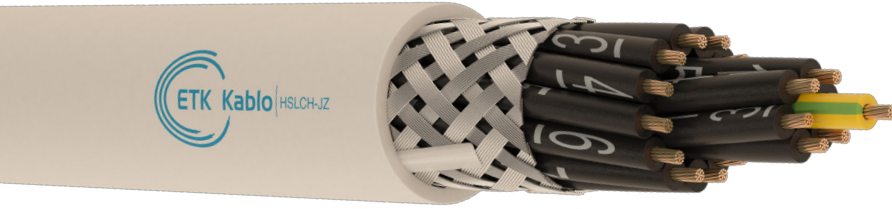


Control Cables

HSLCH-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 low level mechanical stress.
- In places where human life, valuable materials and equipments need to be protected.

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
- 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	2000	300/500
0.75 mm ²	26.0	20	12	2000	300/500
1.00 mm ²	19.5	20	15	2000	300/500
1.5 mm ²	13.3	20	18	2000	300/500
2.5 mm ²	7.98	20	26	2000	300/500
4.0 mm ²	4.95	20	34	2000	300/500
6.0 mm ²	3.30	20	44	2000	300/500
10.0 mm ²	1.91	20	61	2000	300/500
16.0 mm ²	1.21	20	82	2000	300/500

Mechanical Characteristics

Bending Radius	Temperature Range Operating
10xD 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

HSLCH-JZ

Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.603.2.3.3.0050.1.0002	2	0.5	5.3	18.0	45	100/500/1000
3.603.2.3.3.0050.0.0003	3	0.5	5.6	22.4	51	100/500/1000
3.603.2.3.3.0050.0.0004	4	0.5	6.0	28.2	62	100/500/1000
3.603.3.2.2.0050.0.0005	5	0.5	6.5	33.0	71	100/500/1000
3.603.3.2.2.0050.0.0006	6	0.5	7.2	41.6	87	100/500/1000
3.603.3.2.2.0050.0.0007	7	0.5	7.2	46.0	91	100/500/1000
3.603.3.2.2.0050.0.0008	8	0.5	7.7	51.5	104	100/500/1000
3.603.3.2.2.0050.0.0009	9	0.5	9.0	56.0	120	100/500/1000
3.603.3.2.2.0050.0.0010	10	0.5	9.0	60.4	123	100/500/1000
3.603.3.2.2.0050.0.0012	12	0.5	9.3	69.8	138	100/500/1000
3.603.3.2.2.0050.0.0014	14	0.5	9.7	79.3	153	100/500/1000
3.603.3.2.2.0050.0.0016	16	0.5	10.3	89.1	172	100/500/1000
3.603.3.2.2.0050.0.0018	18	0.5	10.9	103.5	195	100/500/1000
3.603.3.2.2.0050.0.0020	20	0.5	11.5	113.6	217	100/500/1000
3.603.3.2.2.0050.0.0024	24	0.5	12.8	135.0	251	100/500/1000
3.603.3.2.2.0050.0.0025	25	0.5	12.8	139.4	262	100/500/1000
3.603.3.2.2.0050.0.0027	27	0.5	13.0	148.5	271	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.603.2.3.3.0075.1.0002	2	0.75	5.7	22.8	53	100/500/1000
3.603.2.3.3.0075.0.0003	3	0.75	6.0	30.4	64	100/500/1000
3.603.2.3.3.0075.0.0004	4	0.75	6.5	37.2	75	100/500/1000
3.603.3.2.2.0075.0.0005	5	0.75	7.2	48.2	93	100/500/1000
3.603.3.2.2.0075.0.0006	6	0.75	7.9	55.4	109	100/500/1000
3.603.3.2.2.0075.0.0007	7	0.75	7.9	62.0	114	100/500/1000
3.603.3.2.2.0075.0.0008	8	0.75	8.4	68.9	130	100/500/1000
3.603.3.2.2.0075.0.0009	9	0.75	9.8	76.6	148	100/500/1000
3.603.3.2.2.0075.0.0010	10	0.75	9.8	83.2	153	100/500/1000
3.603.3.2.2.0075.0.0012	12	0.75	10.2	97.1	176	100/500/1000
3.603.3.2.2.0075.0.0014	14	0.75	10.8	115.8	201	100/500/1000
3.603.3.2.2.0075.0.0016	16	0.75	11.4	130.1	225	100/500/1000
3.603.3.2.2.0075.0.0018	18	0.75	12.0	144.7	250	100/500/1000
3.603.3.2.2.0075.0.0020	20	0.75	12.7	159.8	279	100/500/1000
3.603.3.2.2.0075.0.0024	24	0.75	14.0	186.4	319	100/500/1000
3.603.3.2.2.0075.0.0025	25	0.75	14.1	195.9	337	100/500/1000
3.603.3.2.2.0075.0.0027	27	0.75	14.5	211.5	355	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.603.2.3.3.0100.1.0002	2	1	6.1	27.1	60	100/500/1000
3.603.2.3.3.0100.0.0003	3	1	6.5	35.6	73	100/500/1000
3.603.2.3.3.0100.0.0004	4	1	7.1	48.3	92	100/500/1000
3.603.3.2.2.0100.0.0005	5	1	7.7	57.0	108	100/500/1000
3.603.3.2.2.0100.0.0006	6	1	8.4	65.4	126	100/500/1000
3.603.3.2.2.0100.0.0007	7	1	8.4	73.7	132	100/500/1000
3.603.3.2.2.0100.0.0008	8	1	9.2	82.1	153	100/500/1000
3.603.3.2.2.0100.0.0009	9	1	10.8	97.9	182	100/500/1000
3.603.3.2.2.0100.0.0010	10	1	10.8	106.1	188	100/500/1000
3.603.3.2.2.0100.0.0012	12	1	11.2	123.4	215	100/500/1000

HSLCH-JZ

3.603.3.2.2.0100.0.0014	14	1	11.7	141.3	241	100/500/1000
3.603.3.2.2.0100.0.0016	16	1	12.5	159.5	270	100/500/1000
3.603.3.2.2.0100.0.0018	18	1	13.1	178.3	299	100/500/1000
3.603.3.2.2.0100.0.0020	20	1	13.9	195.6	335	100/500/1000
3.603.3.2.2.0100.0.0024	24	1	15.3	227.9	382	100/500/1000
3.603.3.2.2.0100.0.0025	25	1	15.4	240.9	406	100/500/1000
3.603.3.2.2.0100.0.0027	27	1	15.8	257.9	425	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.603.2.3.3.0150.1.0002	2	1.5	6.7	36.5	75	100/500/1000
3.603.2.3.3.0150.0.0003	3	1.5	7.3	53.9	98	100/500/1000
3.603.2.3.3.0150.0.0004	4	1.5	7.8	66.8	117	100/500/1000
3.603.3.2.2.0150.0.0005	5	1.5	8.6	80.3	141	100/500/1000
3.603.3.2.2.0150.0.0006	6	1.5	9.4	93.5	165	100/500/1000
3.603.3.2.2.0150.0.0007	7	1.5	9.4	106.4	176	100/500/1000
3.603.3.2.2.0150.0.0008	8	1.5	10.2	120.6	202	100/500/1000
3.603.3.2.2.0150.0.0009	9	1.5	12.1	141.4	240	100/500/1000
3.603.3.2.2.0150.0.0010	10	1.5	12.1	154.4	250	100/500/1000
3.603.3.2.2.0150.0.0012	12	1.5	12.5	181.6	285	100/500/1000
3.603.3.2.2.0150.0.0014	14	1.5	13.2	207.9	324	100/500/1000
3.603.3.2.2.0150.0.0016	16	1.5	14.0	235.9	365	100/500/1000
3.603.3.2.2.0150.0.0018	18	1.5	14.7	264.3	408	100/500/1000
3.603.3.2.2.0150.0.0020	20	1.5	15.6	291.3	454	100/500/1000
3.603.3.2.2.0150.0.0024	24	1.5	17.4	344.2	531	100/500/1000
3.603.3.2.2.0150.0.0025	25	1.5	17.5	361.6	561	100/500/1000
3.603.3.2.2.0150.0.0027	27	1.5	17.8	387.7	585	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.603.2.3.3.0250.1.0002	2	2.5	8.1	56.9	111	100/500/1000
3.603.2.3.3.0250.0.0003	3	2.5	8.6	80.4	141	100/500/1000
3.603.2.3.3.0250.0.0004	4	2.5	9.5	102.2	173	100/500/1000
3.603.3.2.2.0250.0.0005	5	2.5	10.5	125.8	211	100/500/1000
3.603.3.2.2.0250.0.0006	6	2.5	11.5	153.1	254	100/500/1000
3.603.3.2.2.0250.0.0007	7	2.5	11.5	174.5	271	100/500/1000
3.603.3.2.2.0250.0.0008	8	2.5	12.5	197.8	316	100/500/1000
3.603.3.2.2.0250.0.0009	9	2.5	14.8	224.5	366	100/500/1000
3.603.3.2.2.0250.0.0010	10	2.5	14.8	245.9	383	100/500/1000
3.603.3.2.2.0250.0.0012	12	2.5	15.3	291.7	439	100/500/1000
3.603.3.2.2.0250.0.0014	14	2.5	16.1	335.6	500	100/500/1000
3.603.3.2.2.0250.0.0016	16	2.5	17.2	383.3	570	100/500/1000
3.603.3.2.2.0250.0.0018	18	2.5	18.3	431.0	644	100/500/1000
3.603.3.2.2.0250.0.0020	20	2.5	19.5	475.7	725	100/500/1000
3.603.3.2.2.0250.0.0024	24	2.5	21.7	565.2	842	100/500/1000
3.603.3.2.2.0250.0.0025	25	2.5	21.9	591.4	900	100/500/1000
3.603.3.2.2.0250.0.0027	27	2.5	22.4	642.5	946	100/500/1000

HSLCH-JZ

Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.603.2.3.3.0400.1.0002	2	4	9.2	85.2	158	100/500/1000
3.603.3.2.2.0400.0.0003	3	4	9.8	120.7	194	100/500/1000
3.603.3.2.2.0400.0.0004	4	4	10.8	160.6	244	100/500/1000
3.603.3.2.2.0400.0.0005	5	4	11.9	197.3	299	100/500/1000
3.603.3.2.2.0400.0.0006	6	4	13.1	235.5	357	100/500/1000
3.603.3.2.2.0400.0.0007	7	4	13.1	269.8	384	100/500/1000
3.603.3.2.2.0400.0.0008	8	4	14.3	308.7	449	100/500/1000
3.603.3.2.2.0400.0.0009	9	4	17.1	354.9	531	100/500/1000
3.603.3.2.2.0400.0.0010	10	4	17.1	389.2	558	100/500/1000
3.603.3.2.2.0400.0.0012	12	4	17.7	462.3	643	100/500/1000
3.603.3.2.2.0400.0.0014	14	4	18.8	532.5	738	100/500/1000
3.603.3.2.2.0400.0.0016	16	4	20.0	603.1	834	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.603.2.3.3.0600.1.0002	2	6	11.0	126.6	227	100/500/1000
3.603.3.2.2.0600.0.0003	3	6	11.8	179.2	281	100/500/1000
3.603.3.2.2.0600.0.0004	4	6	12.9	233.7	351	100/500/1000
3.603.3.2.2.0600.0.0005	5	6	14.3	288.2	432	100/500/1000
3.603.3.2.2.0600.0.0006	6	6	15.8	343.7	518	100/500/1000
3.603.3.2.2.0600.0.0007	7	6	15.8	395.1	558	100/500/1000
3.603.3.2.2.0600.0.0008	8	6	17.3	452.3	658	100/500/1000
3.603.3.2.2.0600.0.0009	9	6	20.9	518.8	781	100/500/1000
3.603.3.2.2.0600.0.0010	10	6	20.9	570.3	821	100/500/1000
3.603.3.2.2.0600.0.0012	12	6	21.8	679.8	960	100/500/1000
3.603.3.2.2.0600.0.0014	14	6	23.1	785.1	1100	100/500/1000
3.603.3.2.2.0600.0.0016	16	6	24.6	891.7	1243	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.603.3.2.2.1000.1.0002	2	10	13.2	206.3	343	100/500/1000
3.603.3.2.2.1000.0.0003	3	10	14.1	298.1	433	100/500/1000
3.603.3.2.2.1000.0.0004	4	10	15.7	390.8	549	100/500/1000
3.603.3.2.2.1000.0.0005	5	10	17.4	485.8	684	100/500/1000
3.603.3.2.2.1000.0.0006	6	10	19.4	581.0	830	100/500/1000
3.603.3.2.2.1000.0.0007	7	10	19.4	670.0	899	100/500/1000
3.603.3.2.2.1000.0.0008	8	10	21.2	756.3	1033	100/500/1000
3.603.3.2.2.1000.0.0009	9	10	25.7	859.1	1222	100/500/1000
3.603.3.2.2.1000.0.0010	10	10	25.7	948.1	1301	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.603.3.2.2.1600.1.0002	2	16	17.5	319.1	548	100/500/1000
3.603.3.2.2.1600.0.0003	3	16	18.8	461.3	710	100/500/1000
3.603.3.2.2.1600.0.0004	4	16	21.0	610.3	911	100/500/1000
3.603.3.2.2.1600.0.0005	5	16	23.5	755.1	1140	100/500/1000
3.603.3.2.2.1600.0.0006	6	16	26.1	900.2	1375	100/500/1000
3.603.3.2.2.1600.0.0007	7	16	26.1	1.040.4	1484	100/500/1000
3.603.3.2.2.1600.0.0008	8	16	27.5	1.185.8	1640	100/500/1000
3.603.3.2.2.1600.0.0009	9	16	33.7	1.337.6	1947	100/500/1000
3.603.3.2.2.1600.0.0010	10	16	33.7	1.477.8	2089	100/500/1000