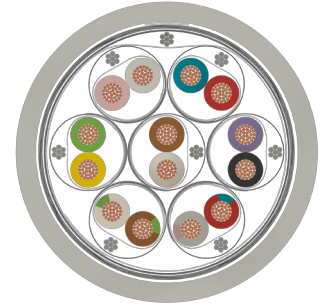
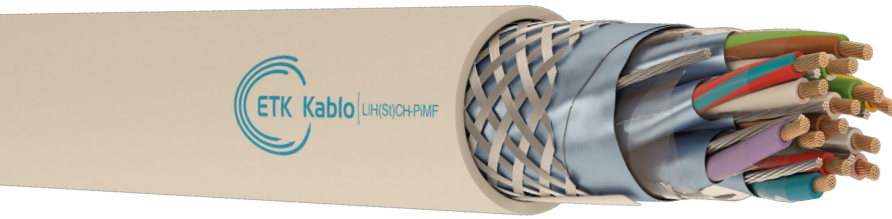


Electronic Control Cables

Signal Cables

LIH(S)tCH-PiMF



Application

- Feeder cable for frequency controlled motors with electromagnetic interference.
- At instrumentation and control engineering.
- At industrial electronics.
- Computer and office devices.
- Indoor communication systems.
- Indoor sound systems.
- In places where human life, valuable materials and equipments need to be protected.

Cable Construction

- 1 - Conductor : Stranded electrolytic copper conductor (Class 5) (IEC 60228, EN 60228, DIN VDE 0295)
- 2 - Insulation : Halogen-free (TS IEC 60189-2, EN 50290-2-26) (DIN 47100)
- 3 - Stranding : Screened pairs are stranded in layers.
- 4 - Individual Wrapping : Polyester tape
- 5 - Individual Screen : Tinned copper earthing wire, Al/PET tape
- 6 - Wrapping : Polyester tape
- 7 - Screen : Tinned copper earthing wire, Al/PET tape
- 8 - Outer Jacket : UV resistant halogen-free outer jacket. RAL 7035 (Grey)

Technical Characteristics

Cross Section	Conductor Resistance Ω/km (20 °C)	Insulation Resistance $M \Omega/\text{km}$ (20 °C)	Mutual Capacitance pF/m	Current Carrying Capacity A	Impedance Ω	Inductance mH/km	Operating Voltage $V \text{ DC}$	Test Voltage $V \text{ (DC, 1 minute)}$
0.14 mm ²	138	200	110	2	78	0.67	250	1200
0.22 mm ²	85	200	110	2.5	78	0.67	250	1200
0.25 mm ²	77.8	200	110	4.5	78	0.67	250	1200
0.34 mm ²	56	200	110	6	78	0.67	250	1200
0.50 mm ²	39	20	120	9	78	0.67	300/500	2000
0.75 mm ²	26	20	120	12	78	0.67	300/500	2000
1.00 mm ²	19.5	20	130	15	78	0.67	300/500	2000
1.5 mm ²	13.3	20	140	18	78	0.67	300/500	2000
2.5 mm ²	7.98	20	150	26	78	0.67	300/500	2000
4.0 mm ²	4.95	20	150	34	78	0.67	300/500	2000
6.0 mm ²	3.3	20	150	44	78	0.67	300/500	2000
10 mm ²	1.91	20	150	61	78	0.67	300/500	2000
16 mm ²	1.21	20	150	82	78	0.67	300/500	2000

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	Flame Propagation 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	IEC 60332-3-24, VDE 0482-332-3-24, EN 60332-3-24

Notes

Electromagnetic compatibility (EMC)
Color code could be JZ, OZ, JB, OB according to customer demand.
Reference Standard: DIN VDE 0812

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Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.550.2.3.3.0022.0.0002	2	0.22	7.2	26.6	53	100/500/1000
3.550.2.3.3.0022.0.0003	3	0.22	7.7	33.8	66	100/500/1000
3.550.2.3.3.0022.0.0004	4	0.22	8.6	42	83	100/500/1000
3.550.2.3.3.0022.0.0005	5	0.22	9.4	49.4	96	100/500/1000
3.550.2.3.3.0022.0.0006	6	0.22	11	57.9	113	100/500/1000
3.550.2.3.3.0022.0.0007	7	0.22	11	64.3	125	100/500/1000
3.550.2.3.3.0022.0.0008	8	0.22	12	72.1	139	100/500/1000
3.550.2.3.3.0022.0.0009	9	0.22	13	81.8	159	100/500/1000
3.550.2.3.3.0022.0.0010	10	0.22	14	88.3	172	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.550.2.3.3.0025.0.0002	2	0.25	7.6	28.4	56	100/500/1000
3.550.2.3.3.0025.0.0003	3	0.25	8.1	36.2	71	100/500/1000
3.550.2.3.3.0025.0.0004	4	0.25	9.2	44.5	89	100/500/1000
3.550.2.3.3.0025.0.0005	5	0.25	9.9	53.3	104	100/500/1000
3.550.2.3.3.0025.0.0006	6	0.25	11	62.3	122	100/500/1000
3.550.2.3.3.0025.0.0007	7	0.25	11	69.3	135	100/500/1000
3.550.2.3.3.0025.0.0008	8	0.25	12	77.6	151	100/500/1000
3.550.2.3.3.0025.0.0009	9	0.25	14	88.7	174	100/500/1000
3.550.2.3.3.0025.0.0010	10	0.25	14	95.7	188	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.550.2.3.3.0034.0.0002	2	0.34	8.6	33.2	67	100/500/1000
3.550.2.3.3.0034.0.0003	3	0.34	9.2	43.2	85	100/500/1000
3.550.2.3.3.0034.0.0004	4	0.34	11	53.8	105	100/500/1000
3.550.2.3.3.0034.0.0005	5	0.34	12	64	126	100/500/1000
3.550.2.3.3.0034.0.0006	6	0.34	13	75	145	100/500/1000
3.550.2.3.3.0034.0.0007	7	0.34	13	83.9	161	100/500/1000
3.550.2.3.3.0034.0.0008	8	0.34	14	94.6	180	100/500/1000
3.550.2.3.3.0034.0.0009	9	0.34	16	113.7	216	100/500/1000
3.550.2.3.3.0034.0.0010	10	0.34	16	122.6	233	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.550.2.3.3.0050.0.0002	2	0.5	9.8	48.4	90	100/500/1000
3.550.2.3.3.0050.0.0003	3	0.5	11	63.1	115	100/500/1000
3.550.2.3.3.0050.0.0004	4	0.5	12	78.2	144	100/500/1000
3.550.2.3.3.0050.0.0005	5	0.5	13	94.6	170	100/500/1000
3.550.2.3.3.0050.0.0006	6	0.5	14	110.7	199	100/500/1000
3.550.2.3.3.0050.0.0007	7	0.5	14	124.4	221	100/500/1000
3.550.2.3.3.0050.0.0008	8	0.5	16	145.9	252	100/500/1000
3.550.2.3.3.0050.0.0009	9	0.5	18	165.5	293	100/500/1000
3.550.2.3.3.0050.0.0010	10	0.5	18	179.2	312	100/500/1000

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Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.550.2.3.3.0075.0.0002	2	0.75	11	58.3	107	100/500/1000
3.550.2.3.3.0075.0.0003	3	0.75	12	77.7	137	100/500/1000
3.550.2.3.3.0075.0.0004	4	0.75	13	98.4	176	100/500/1000
3.550.2.3.3.0075.0.0005	5	0.75	14	119	207	100/500/1000
3.550.2.3.3.0075.0.0006	6	0.75	16	145	248	100/500/1000
3.550.2.3.3.0075.0.0007	7	0.75	16	163.1	275	100/500/1000
3.550.2.3.3.0075.0.0008	8	0.75	17	182.7	307	100/500/1000
3.550.2.3.3.0075.0.0009	9	0.75	20	207.5	357	100/500/1000
3.550.2.3.3.0075.0.0010	10	0.75	20	225.6	381	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.550.2.3.3.0100.0.0002	2	1	12	66.2	122	100/500/1000
3.550.2.3.3.0100.0.0003	3	1	13	89	157	100/500/1000
3.550.2.3.3.0100.0.0004	4	1	14	113.8	199	100/500/1000
3.550.2.3.3.0100.0.0005	5	1	15	143.1	241	100/500/1000
3.550.2.3.3.0100.0.0006	6	1	17	166.1	281	100/500/1000
3.550.2.3.3.0100.0.0007	7	1	17	187.6	313	100/500/1000
3.550.2.3.3.0100.0.0008	8	1	18	213.4	352	100/500/1000
3.550.2.3.3.0100.0.0009	9	1	18	246.8	408	100/500/1000
3.550.2.3.3.0100.0.0010	10	1	21	268.3	441	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.550.2.3.3.0150.0.0002	2	1.5	13	87.1	148	100/500/1000
3.550.2.3.3.0150.0.0003	3	1.5	14	118.5	192	100/500/1000
3.550.2.3.3.0150.0.0004	4	1.5	15	156.4	248	100/500/1000
3.550.2.3.3.0150.0.0005	5	1.5	16	190.5	296	100/500/1000
3.550.2.3.3.0150.0.0006	6	1.5	18	225.6	348	100/500/1000
3.550.2.3.3.0150.0.0007	7	1.5	18	256.4	389	100/500/1000
3.550.2.3.3.0150.0.0008	8	1.5	20	289.3	437	100/500/1000
3.550.2.3.3.0150.0.0009	9	1.5	23	332.8	510	100/500/1000
3.550.2.3.3.0150.0.0010	10	1.5	23	363.5	547	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.550.2.3.3.0250.0.0002	2	2.5	13	131.9	218	100/500/1000
3.550.2.3.3.0250.0.0003	3	2.5	14	181	286	100/500/1000
3.550.2.3.3.0250.0.0004	4	2.5	15	233.4	365	100/500/1000
3.550.2.3.3.0250.0.0005	5	2.5	16	284	435	100/500/1000
3.550.2.3.3.0250.0.0006	6	2.5	18	342.2	518	100/500/1000
3.550.2.3.3.0250.0.0007	7	2.5	18	390.1	581	100/500/1000
3.550.2.3.3.0250.0.0008	8	2.5	20	441.6	654	100/500/1000
3.550.2.3.3.0250.0.0009	9	2.5	23	503.8	758	100/500/1000
3.550.2.3.3.0250.0.0010	10	2.5	23	551.8	816	100/500/1000