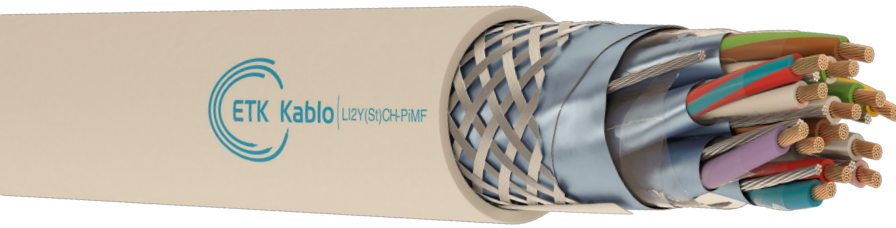


Electronic Control Cables

Signal Cables

LI2Y(St)CH-PiMF



Application

- Feeder cable for frequency controlled motors with electromagnetic interference.
- At instrumentation and control engineering.
- At industrial electronics.
- Computer and office devices.
- Automation systems.
- In data transmission systems for high frequency transmission.
- 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 : Solid polyethylene (EN 50290-2-23, BS 6234 Type 03 - ASTM D 1248) (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 Ω/km (20 °C)	Mutual Capacitance pF/m	Current Carrying Capacity A	Impedance Ω	Inductance mH/km	Operating Voltage V DC	Test Voltage V (DC, 1 minute)
0.14 mm ²	138	5000	110	2	78	0.67	250	1200
0.22 mm ²	85	5000	110	2.5	78	0.67	250	1200
0.25 mm ²	77.8	5000	110	4.5	78	0.67	250	1200
0.34 mm ²	56	5000	110	6	78	0.67	250	1200
0.50 mm ²	39	5000	120	9	78	0.67	300/500	2000
0.75 mm ²	26	5000	120	12	78	0.67	300/500	2000
1.00 mm ²	19.5	5000	130	15	78	0.67	300/500	2000
1.5 mm ²	13.3	5000	140	18	78	0.67	300/500	2000
2.5 mm ²	7.98	5000	150	26	78	0.67	300/500	2000
4.0 mm ²	4.95	5000	150	34	78	0.67	300/500	2000
6.0 mm ²	3.3	5000	150	44	78	0.67	300/500	2000
10 mm ²	1.91	5000	150	61	78	0.67	300/500	2000
16 mm ²	1.21	5000	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

LI2Y(S)tCH-PiMF

Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.550.21.3.0022.0.0002	2	0.22	7.2	26.6	52	100/500/1000
3.550.21.3.0022.0.0003	3	0.22	7.7	33.8	64	100/500/1000
3.550.21.3.0022.0.0004	4	0.22	8.6	42	81	100/500/1000
3.550.21.3.0022.0.0005	5	0.22	9.4	49.4	94	100/500/1000
3.550.21.3.0022.0.0006	6	0.22	11	57.9	110	100/500/1000
3.550.21.3.0022.0.0007	7	0.22	11	64.3	122	100/500/1000
3.550.21.3.0022.0.0008	8	0.22	12	72.1	135	100/500/1000
3.550.21.3.0022.0.0009	9	0.22	13	81.8	155	100/500/1000
3.550.21.3.0022.0.0010	10	0.22	14	88.3	167	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)
3.550.21.3.0025.0.0002	2	0.25	7.6	28.4	55	100/500/1000
3.550.21.3.0025.0.0003	3	0.25	8.1	36.2	69	100/500/1000
3.550.21.3.0025.0.0004	4	0.25	9.2	44.5	87	100/500/1000
3.550.21.3.0025.0.0005	5	0.25	9.9	53.3	102	100/500/1000
3.550.21.3.0025.0.0006	6	0.25	11	62.3	119	100/500/1000
3.550.21.3.0025.0.0007	7	0.25	11	69.3	132	100/500/1000
3.550.21.3.0025.0.0008	8	0.25	12	77.6	146	100/500/1000
3.550.21.3.0025.0.0009	9	0.25	14	88.7	169	100/500/1000
3.550.21.3.0025.0.0010	10	0.25	14	95.7	182	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)
3.550.21.3.0034.0.0002	2	0.34	8.6	33.2	66	100/500/1000
3.550.21.3.0034.0.0003	3	0.34	9.2	43.2	83	100/500/1000
3.550.21.3.0034.0.0004	4	0.34	11	53.8	103	100/500/1000
3.550.21.3.0034.0.0005	5	0.34	12	64	123	100/500/1000
3.550.21.3.0034.0.0006	6	0.34	13	75	141	100/500/1000
3.550.21.3.0034.0.0007	7	0.34	13	83.9	156	100/500/1000
3.550.21.3.0034.0.0008	8	0.34	14	94.6	175	100/500/1000
3.550.21.3.0034.0.0009	9	0.34	16	113.7	210	100/500/1000
3.550.21.3.0034.0.0010	10	0.34	16	122.6	226	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)
3.550.21.3.0050.0.0002	2	0.5	9.8	48.4	88	100/500/1000
3.550.21.3.0050.0.0003	3	0.5	11	63.1	112	100/500/1000
3.550.21.3.0050.0.0004	4	0.5	12	78.2	140	100/500/1000
3.550.21.3.0050.0.0005	5	0.5	13	94.6	165	100/500/1000
3.550.21.3.0050.0.0006	6	0.5	14	110.7	193	100/500/1000
3.550.21.3.0050.0.0007	7	0.5	14	124.4	214	100/500/1000
3.550.21.3.0050.0.0008	8	0.5	16	145.9	245	100/500/1000
3.550.21.3.0050.0.0009	9	0.5	18	165.5	285	100/500/1000
3.550.21.3.0050.0.0010	10	0.5	18	179.2	303	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)
3.550.2.1.3.0075.0.0002	2	0.75	11	58.3	105	100/500/1000
3.550.2.1.3.0075.0.0003	3	0.75	12	77.7	134	100/500/1000
3.550.2.1.3.0075.0.0004	4	0.75	13	98.4	172	100/500/1000
3.550.2.1.3.0075.0.0005	5	0.75	14	119	202	100/500/1000
3.550.2.1.3.0075.0.0006	6	0.75	16	145	242	100/500/1000
3.550.2.1.3.0075.0.0007	7	0.75	16	163.1	268	100/500/1000
3.550.2.1.3.0075.0.0008	8	0.75	17	182.7	299	100/500/1000
3.550.2.1.3.0075.0.0009	9	0.75	20	207.5	348	100/500/1000
3.550.2.1.3.0075.0.0010	10	0.75	20	225.6	370	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)
3.550.2.1.3.0100.0.0002	2	1	12	66.2	119	100/500/1000
3.550.2.1.3.0100.0.0003	3	1	13	89	153	100/500/1000
3.550.2.1.3.0100.0.0004	4	1	14	113.8	194	100/500/1000
3.550.2.1.3.0100.0.0005	5	1	15	143.1	235	100/500/1000
3.550.2.1.3.0100.0.0006	6	1	17	166.1	273	100/500/1000
3.550.2.1.3.0100.0.0007	7	1	17	187.6	304	100/500/1000
3.550.2.1.3.0100.0.0008	8	1	18	213.4	342	100/500/1000
3.550.2.1.3.0100.0.0009	9	1	18	246.8	397	100/500/1000
3.550.2.1.3.0100.0.0010	10	1	21	268.3	428	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)
3.550.2.1.3.0150.0.0002	2	1.5	13	87.1	145	100/500/1000
3.550.2.1.3.0150.0.0003	3	1.5	14	118.5	188	100/500/1000
3.550.2.1.3.0150.0.0004	4	1.5	15	156.4	243	100/500/1000
3.550.2.1.3.0150.0.0005	5	1.5	16	190.5	289	100/500/1000
3.550.2.1.3.0150.0.0006	6	1.5	18	225.6	341	100/500/1000
3.550.2.1.3.0150.0.0007	7	1.5	18	256.4	380	100/500/1000
3.550.2.1.3.0150.0.0008	8	1.5	20	289.3	427	100/500/1000
3.550.2.1.3.0150.0.0009	9	1.5	23	332.8	498	100/500/1000
3.550.2.1.3.0150.0.0010	10	1.5	23	363.5	534	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)
3.550.2.1.3.0250.0.0002	2	2.5	13	131.9	214	100/500/1000
3.550.2.1.3.0250.0.0003	3	2.5	14	181	280	100/500/1000
3.550.2.1.3.0250.0.0004	4	2.5	15	233.4	356	100/500/1000
3.550.2.1.3.0250.0.0005	5	2.5	16	284	424	100/500/1000
3.550.2.1.3.0250.0.0006	6	2.5	18	342.2	505	100/500/1000
3.550.2.1.3.0250.0.0007	7	2.5	18	390.1	566	100/500/1000
3.550.2.1.3.0250.0.0008	8	2.5	20	441.6	637	100/500/1000
3.550.2.1.3.0250.0.0009	9	2.5	23	503.8	739	100/500/1000
3.550.2.1.3.0250.0.0010	10	2.5	23	551.8	794	100/500/1000