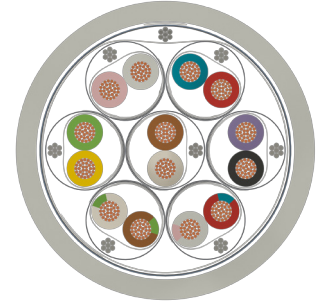
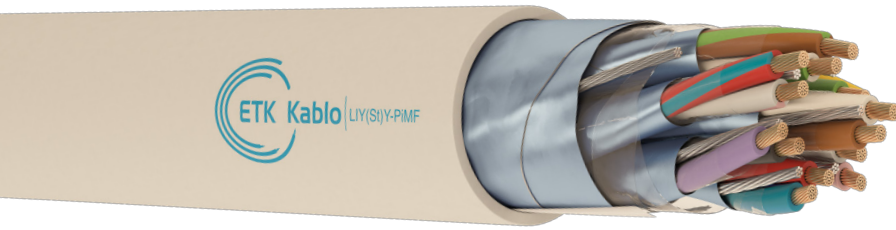


# Electronic Control Cables

## Signal Cables

### LIY(St)Y-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.

#### Cable Construction

- 1 - Conductor : Stranded electrolytic copper conductor (Class 5) (IEC 60228, EN 60228, DIN VDE 0295)
- 2 - Insulation : PVC (TS IEC 60189-2, EN 50290-2-21) (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 PVC outer jacket. RAL 7035 (Grey)

#### Technical Characteristics

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

Flame Retardancy Test
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.  
Reference Standard: DIN VDE 0812

## LIY(St)Y-PiMF

Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.551.2.2.2.0022.0.0002	2	0.22	7	15.1	43	100/500/1000
3.551.2.2.2.0022.0.0003	3	0.22	7.5	21.5	56	100/500/1000
3.551.2.2.2.0022.0.0004	4	0.22	8.4	28	72	100/500/1000
3.551.2.2.2.0022.0.0005	5	0.22	9.1	34.4	85	100/500/1000
3.551.2.2.2.0022.0.0006	6	0.22	10	40.9	101	100/500/1000
3.551.2.2.2.0022.0.0007	7	0.22	10.1	47.3	113	100/500/1000
3.551.2.2.2.0022.0.0008	8	0.22	10.9	53.8	127	100/500/1000
3.551.2.2.2.0022.0.0009	9	0.22	12.8	60.2	145	100/500/1000
3.551.2.2.2.0022.0.0010	10	0.22	12.9	66.7	158	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.551.2.2.2.0025.0.0002	2	0.25	7.3	16.1	46	100/500/1000
3.551.2.2.2.0025.0.0003	3	0.25	7.9	23.1	61	100/500/1000
3.551.2.2.2.0025.0.0004	4	0.25	8.8	30.1	78	100/500/1000
3.551.2.2.2.0025.0.0005	5	0.25	9.6	37.1	93	100/500/1000
3.551.2.2.2.0025.0.0006	6	0.25	10.6	44.1	110	100/500/1000
3.551.2.2.2.0025.0.0007	7	0.25	10.7	51.1	123	100/500/1000
3.551.2.2.2.0025.0.0008	8	0.25	11.5	58.1	138	100/500/1000
3.551.2.2.2.0025.0.0009	9	0.25	13.5	65.1	158	100/500/1000
3.551.2.2.2.0025.0.0010	10	0.25	13.6	72	173	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.551.2.2.2.0034.0.0002	2	0.34	8.2	19.9	57	100/500/1000
3.551.2.2.2.0034.0.0003	3	0.34	8.8	28.7	75	100/500/1000
3.551.2.2.2.0034.0.0004	4	0.34	9.7	37.6	94	100/500/1000
3.551.2.2.2.0034.0.0005	5	0.34	10.7	46.5	114	100/500/1000
3.551.2.2.2.0034.0.0006	6	0.34	11.6	55.3	132	100/500/1000
3.551.2.2.2.0034.0.0007	7	0.34	11.7	64.2	149	100/500/1000
3.551.2.2.2.0034.0.0008	8	0.34	12.7	73.1	167	100/500/1000
3.551.2.2.2.0034.0.0009	9	0.34	15	81.9	195	100/500/1000
3.551.2.2.2.0034.0.0010	10	0.34	15.1	90.8	213	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.551.2.2.2.0050.0.0002	2	0.5	9.4	32.3	78	100/500/1000
3.551.2.2.2.0050.0.0003	3	0.5	10.1	46	102	100/500/1000
3.551.2.2.2.0050.0.0004	4	0.5	11.2	59.7	131	100/500/1000
3.551.2.2.2.0050.0.0005	5	0.5	12.3	73.4	156	100/500/1000
3.551.2.2.2.0050.0.0006	6	0.5	13.5	87.1	184	100/500/1000
3.551.2.2.2.0050.0.0007	7	0.5	13.6	100.9	207	100/500/1000
3.551.2.2.2.0050.0.0008	8	0.5	14.8	114.6	232	100/500/1000
3.551.2.2.2.0050.0.0009	9	0.5	17.4	128.3	270	100/500/1000
3.551.2.2.2.0050.0.0010	10	0.5	17.4	142	289	100/500/1000

## LIY(St)Y-PiMF

Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.551.2.2.2.0075.0.0002	2	0.75	10.3	41.1	93	100/500/1000
3.551.2.2.2.0075.0.0003	3	0.75	11.1	59.2	123	100/500/1000
3.551.2.2.2.0075.0.0004	4	0.75	12.3	77.4	162	100/500/1000
3.551.2.2.2.0075.0.0005	5	0.75	13.5	95.5	193	100/500/1000
3.551.2.2.2.0075.0.0006	6	0.75	14.8	113.7	228	100/500/1000
3.551.2.2.2.0075.0.0007	7	0.75	14.9	131.8	256	100/500/1000
3.551.2.2.2.0075.0.0008	8	0.75	16.2	150	288	100/500/1000
3.551.2.2.2.0075.0.0009	9	0.75	19.1	168.1	333	100/500/1000
3.551.2.2.2.0075.0.0010	10	0.75	19.1	186.2	358	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.551.2.2.2.0100.0.0002	2	1	11.1	47.7	108	100/500/1000
3.551.2.2.2.0100.0.0003	3	1	11.9	69.2	144	100/500/1000
3.551.2.2.2.0100.0.0004	4	1	13.2	90.7	185	100/500/1000
3.551.2.2.2.0100.0.0005	5	1	14.5	112.1	221	100/500/1000
3.551.2.2.2.0100.0.0006	6	1	15.9	133.6	261	100/500/1000
3.551.2.2.2.0100.0.0007	7	1	16	155	294	100/500/1000
3.551.2.2.2.0100.0.0008	8	1	17.4	176.5	331	100/500/1000
3.551.2.2.2.0100.0.0009	9	1	20.4	198	378	100/500/1000
3.551.2.2.2.0100.0.0010	10	1	20.5	219.4	412	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.551.2.2.2.0150.0.0002	2	1.5	12.2	66.3	137	100/500/1000
3.551.2.2.2.0150.0.0003	3	1.5	13.1	97	183	100/500/1000
3.551.2.2.2.0150.0.0004	4	1.5	14.6	127.7	236	100/500/1000
3.551.2.2.2.0150.0.0005	5	1.5	16	158.4	284	100/500/1000
3.551.2.2.2.0150.0.0006	6	1.5	17.6	189.1	336	100/500/1000
3.551.2.2.2.0150.0.0007	7	1.5	17.7	219.8	380	100/500/1000
3.551.2.2.2.0150.0.0008	8	1.5	19.2	250.6	429	100/500/1000
3.551.2.2.2.0150.0.0009	9	1.5	22.8	281.3	494	100/500/1000
3.551.2.2.2.0150.0.0010	10	1.5	22.8	312	534	100/500/1000
Part Number	Pair Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.551.2.2.2.0250.0.0002	2	2.5	14.6	100.7	196	100/500/1000
3.551.2.2.2.0250.0.0003	3	2.5	15.7	148.7	266	100/500/1000
3.551.2.2.2.0250.0.0004	4	2.5	17.4	196.6	343	100/500/1000
3.551.2.2.2.0250.0.0005	5	2.5	19.1	244.6	414	100/500/1000
3.551.2.2.2.0250.0.0006	6	2.5	21	292.5	491	100/500/1000
3.551.2.2.2.0250.0.0007	7	2.5	21.1	340.4	557	100/500/1000
3.551.2.2.2.0250.0.0008	8	2.5	23	388.4	629	100/500/1000
3.551.2.2.2.0250.0.0009	9	2.5	27.5	503.8	787	100/500/1000
3.551.2.2.2.0250.0.0010	10	2.5	27.3	484.3	784	100/500/1000