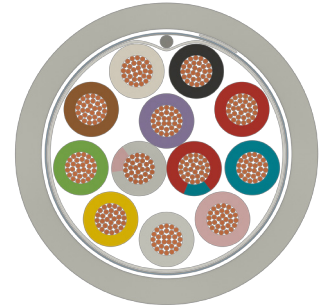
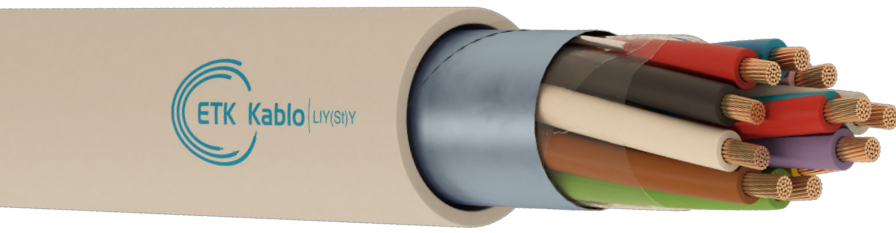


# Electronic Control Cables

## Signal Cables

### LIY(St)Y



#### 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 : In layers
- 4 - Wrapping : Polyester tape
- 5 - Screen : Tinned copper earthing wire, Al/PET tape
- 6 - 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

Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.540.3.2.2.0022.0.0002	2	0.22	4	6.4	19	100/500/1000
3.540.3.2.2.0022.0.0003	3	0.22	4.2	8.6	23	100/500/1000
3.540.3.2.2.0022.0.0004	4	0.22	4.5	10.7	28	100/500/1000
3.540.3.2.2.0022.0.0005	5	0.22	4.9	12.8	33	100/500/1000
3.540.3.2.2.0022.0.0006	6	0.22	5.3	15	38	100/500/1000
3.540.3.2.2.0022.0.0007	7	0.22	5.3	17.1	41	100/500/1000
3.540.3.2.2.0022.0.0008	8	0.22	5.8	19.2	47	100/500/1000
3.540.3.2.2.0022.0.0009	9	0.22	6.2	21.3	53	100/500/1000
3.540.3.2.2.0022.0.0010	10	0.22	6.7	23.5	58	100/500/1000
3.540.3.2.2.0022.0.0012	12	0.22	6.9	27.7	66	100/500/1000
3.540.3.2.2.0022.0.0014	14	0.22	7.3	32	75	100/500/1000
3.540.3.2.2.0022.0.0016	16	0.22	7.7	36.3	85	100/500/1000
3.540.3.2.2.0022.0.0018	18	0.22	8.1	40.6	93	100/500/1000
3.540.3.2.2.0022.0.0019	19	0.22	8.1	42.7	97	100/500/1000
3.540.3.2.2.0022.0.0020	20	0.22	8.6	44.8	104	100/500/1000
3.540.3.2.2.0022.0.0021	21	0.22	8.6	47	107	100/500/1000
3.540.3.2.2.0022.0.0024	24	0.22	9.5	53.4	123	100/500/1000
3.540.3.2.2.0022.0.0025	25	0.22	9.5	55.5	127	100/500/1000
3.540.3.2.2.0022.0.0027	27	0.22	9.7	59.8	134	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.540.3.2.2.0025.0.0002	2	0.25	4.2	7	21	100/500/1000
3.540.3.2.2.0025.0.0003	3	0.25	4.4	9.4	25	100/500/1000
3.540.3.2.2.0025.0.0004	4	0.25	4.7	11.8	30	100/500/1000
3.540.3.2.2.0025.0.0005	5	0.25	5.2	14.2	37	100/500/1000
3.540.3.2.2.0025.0.0006	6	0.25	5.6	16.6	42	100/500/1000
3.540.3.2.2.0025.0.0007	7	0.25	5.3	19	42	100/500/1000
3.540.3.2.2.0025.0.0008	8	0.25	6.1	21.3	52	100/500/1000
3.540.3.2.2.0025.0.0009	9	0.25	6.6	23.7	59	100/500/1000
3.540.3.2.2.0025.0.0010	10	0.25	7.1	26.1	65	100/500/1000
3.540.3.2.2.0025.0.0012	12	0.25	7.3	30.9	73	100/500/1000
3.540.3.2.2.0025.0.0014	14	0.25	7.7	35.7	84	100/500/1000
3.540.3.2.2.0025.0.0016	16	0.25	8.2	40.6	95	100/500/1000
3.540.3.2.2.0025.0.0018	18	0.25	8.6	45.4	105	100/500/1000
3.540.3.2.2.0025.0.0019	19	0.25	8.6	47.8	108	100/500/1000
3.540.3.2.2.0025.0.0020	20	0.25	9.1	50.2	116	100/500/1000
3.540.3.2.2.0025.0.0021	21	0.25	9.1	52.6	119	100/500/1000
3.540.3.2.2.0025.0.0024	24	0.25	10.1	59.8	138	100/500/1000
3.540.3.2.2.0025.0.0025	25	0.25	10.1	62.2	142	100/500/1000
3.540.3.2.2.0025.0.0027	27	0.25	10.3	67	151	100/500/1000

## LIY(St)Y

Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.540.3.2.2.0034.0.0002	2	0.34	4.8	8.8	27	100/500/1000
3.540.3.2.2.0034.0.0003	3	0.34	5	12.2	33	100/500/1000
3.540.3.2.2.0034.0.0004	4	0.34	5.4	15.5	40	100/500/1000
3.540.3.2.2.0034.0.0005	5	0.34	5.9	18.8	48	100/500/1000
3.540.3.2.2.0034.0.0006	6	0.34	6.4	22.2	55	100/500/1000
3.540.3.2.2.0034.0.0007	7	0.34	6.4	25.5	60	100/500/1000
3.540.3.2.2.0034.0.0008	8	0.34	7	28.8	69	100/500/1000
3.540.3.2.2.0034.0.0009	9	0.34	8	32.1	78	100/500/1000
3.540.3.2.2.0034.0.0010	10	0.34	8.1	35.5	86	100/500/1000
3.540.3.2.2.0034.0.0012	12	0.34	8.3	42.2	97	100/500/1000
3.540.3.2.2.0034.0.0014	14	0.34	8.8	48.8	111	100/500/1000
3.540.3.2.2.0034.0.0016	16	0.34	9.2	55.5	124	100/500/1000
3.540.3.2.2.0034.0.0018	18	0.34	9.8	62.2	138	100/500/1000
3.540.3.2.2.0034.0.0019	19	0.34	9.8	65.5	144	100/500/1000
3.540.3.2.2.0034.0.0020	20	0.34	10.4	68.8	154	100/500/1000
3.540.3.2.2.0034.0.0021	21	0.34	10.4	72.2	159	100/500/1000
3.540.3.2.2.0034.0.0024	24	0.34	11.6	82.2	186	100/500/1000
3.540.3.2.2.0034.0.0025	25	0.34	11.6	85.5	191	100/500/1000
3.540.3.2.2.0034.0.0027	27	0.34	11.8	92.2	202	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.540.3.2.2.0050.0.0002	2	0.5	5.3	11	33	100/500/1000
3.540.3.2.2.0050.0.0003	3	0.5	5.6	15.4	41	100/500/1000
3.540.3.2.2.0050.0.0004	4	0.5	6	19.8	49	100/500/1000
3.540.3.2.2.0050.0.0005	5	0.5	6.5	24.2	60	100/500/1000
3.540.3.2.2.0050.0.0006	6	0.5	7.1	28.6	72	100/500/1000
3.540.3.2.2.0050.0.0007	7	0.5	7.1	33	75	100/500/1000
3.540.3.2.2.0050.0.0008	8	0.5	7.8	37.4	92	100/500/1000
3.540.3.2.2.0050.0.0009	9	0.5	8.9	41.8	103	100/500/1000
3.540.3.2.2.0050.0.0010	10	0.5	9	46.2	107	100/500/1000
3.540.3.2.2.0050.0.0012	12	0.5	9.4	55	124	100/500/1000
3.540.3.2.2.0050.0.0014	14	0.5	9.9	63.8	142	100/500/1000
3.540.3.2.2.0050.0.0016	16	0.5	10.4	72.6	158	100/500/1000
3.540.3.2.2.0050.0.0018	18	0.5	10.9	81.4	178	100/500/1000
3.540.3.2.2.0050.0.0019	19	0.5	10.9	85.8	181	100/500/1000
3.540.3.2.2.0050.0.0020	20	0.5	11.6	90.2	199	100/500/1000
3.540.3.2.2.0050.0.0021	21	0.5	11.6	94.6	200	100/500/1000
3.540.3.2.2.0050.0.0024	24	0.5	12.7	107.8	227	100/500/1000
3.540.3.2.2.0050.0.0025	25	0.5	12.9	112.2	247	100/500/1000
3.540.3.2.2.0050.0.0027	27	0.5	13.1	121	255	100/500/1000

## LIY(St)Y

Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.540.3.2.2.0075.0.0002	2	0.75	5.9	17.7	44	100/500/1000
3.540.3.2.2.0075.0.0003	3	0.75	6.2	24.3	54	100/500/1000
3.540.3.2.2.0075.0.0004	4	0.75	6.8	30.9	67	100/500/1000
3.540.3.2.2.0075.0.0005	5	0.75	7.5	37.4	83	100/500/1000
3.540.3.2.2.0075.0.0006	6	0.75	8	44	97	100/500/1000
3.540.3.2.2.0075.0.0007	7	0.75	8	50.6	102	100/500/1000
3.540.3.2.2.0075.0.0008	8	0.75	8.8	57.2	122	100/500/1000
3.540.3.2.2.0075.0.0009	9	0.75	10.1	63.8	138	100/500/1000
3.540.3.2.2.0075.0.0010	10	0.75	10.1	70.4	144	100/500/1000
3.540.3.2.2.0075.0.0012	12	0.75	10.5	83.7	166	100/500/1000
3.540.3.2.2.0075.0.0014	14	0.75	11.1	96.9	190	100/500/1000
3.540.3.2.2.0075.0.0016	16	0.75	11.7	110.1	211	100/500/1000
3.540.3.2.2.0075.0.0018	18	0.75	12.3	123.3	241	100/500/1000
3.540.3.2.2.0075.0.0019	19	0.75	12.3	129.9	245	100/500/1000
3.540.3.2.2.0075.0.0020	20	0.75	13	136.5	265	100/500/1000
3.540.3.2.2.0075.0.0021	21	0.75	13	143.1	268	100/500/1000
3.540.3.2.2.0075.0.0024	24	0.75	14.4	162.9	310	100/500/1000
3.540.3.2.2.0075.0.0025	25	0.75	14.4	169.5	328	100/500/1000
3.540.3.2.2.0075.0.0027	27	0.75	14.7	182.7	339	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.540.3.2.2.0100.0.0002	2	1	6.3	21	50	100/500/1000
3.540.3.2.2.0100.0.0003	3	1	6.7	29.2	63	100/500/1000
3.540.3.2.2.0100.0.0004	4	1	7.3	37.4	78	100/500/1000
3.540.3.2.2.0100.0.0005	5	1	8	45.7	97	100/500/1000
3.540.3.2.2.0100.0.0006	6	1	8.6	53.9	114	100/500/1000
3.540.3.2.2.0100.0.0007	7	1	8.6	62.2	120	100/500/1000
3.540.3.2.2.0100.0.0008	8	1	9.5	70.4	144	100/500/1000
3.540.3.2.2.0100.0.0009	9	1	10.9	78.7	163	100/500/1000
3.540.3.2.2.0100.0.0010	10	1	10.9	87	170	100/500/1000
3.540.3.2.2.0100.0.0012	12	1	11.4	103.5	197	100/500/1000
3.540.3.2.2.0100.0.0014	14	1	12	120	225	100/500/1000
3.540.3.2.2.0100.0.0016	16	1	12.6	136.5	252	100/500/1000
3.540.3.2.2.0100.0.0018	18	1	13.3	153	287	100/500/1000
3.540.3.2.2.0100.0.0019	19	1	13.3	161.2	293	100/500/1000
3.540.3.2.2.0100.0.0020	20	1	14	169.5	317	100/500/1000
3.540.3.2.2.0100.0.0021	21	1	14	177.7	320	100/500/1000
3.540.3.2.2.0100.0.0024	24	1	15.5	202.5	366	100/500/1000
3.540.3.2.2.0100.0.0025	25	1	15.5	210.7	388	100/500/1000
3.540.3.2.2.0100.0.0027	27	1	15.8	227.2	402	100/500/1000

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Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.540.3.2.2.0150.0.0002	2	1.5	7	30.2	64	100/500/1000
3.540.3.2.2.0150.0.0003	3	1.5	7.4	43	82	100/500/1000
3.540.3.2.2.0150.0.0004	4	1.5	8.1	55.9	103	100/500/1000
3.540.3.2.2.0150.0.0005	5	1.5	8.9	68.7	129	100/500/1000
3.540.3.2.2.0150.0.0006	6	1.5	9.6	81.6	151	100/500/1000
3.540.3.2.2.0150.0.0007	7	1.5	9.6	94.4	161	100/500/1000
3.540.3.2.2.0150.0.0008	8	1.5	10.6	107.3	193	100/500/1000
3.540.3.2.2.0150.0.0009	9	1.5	12.2	120.2	219	100/500/1000
3.540.3.2.2.0150.0.0010	10	1.5	12.2	133	229	100/500/1000
3.540.3.2.2.0150.0.0012	12	1.5	12.7	158.7	267	100/500/1000
3.540.3.2.2.0150.0.0014	14	1.5	13.4	184.5	306	100/500/1000
3.540.3.2.2.0150.0.0016	16	1.5	14.1	210.2	343	100/500/1000
3.540.3.2.2.0150.0.0018	18	1.5	14.9	235.9	391	100/500/1000
3.540.3.2.2.0150.0.0019	19	1.5	14.9	248.8	401	100/500/1000
3.540.3.2.2.0150.0.0020	20	1.5	15.7	261.6	433	100/500/1000
3.540.3.2.2.0150.0.0021	21	1.5	15.7	274.5	438	100/500/1000
3.540.3.2.2.0150.0.0024	24	1.5	17.5	313	506	100/500/1000
3.540.3.2.2.0150.0.0025	25	1.5	17.5	325.9	535	100/500/1000
3.540.3.2.2.0150.0.0027	27	1.5	17.9	351.6	558	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.540.3.2.2.0250.0.0002	2	2.5	8.2	47.3	90	100/500/1000
3.540.3.2.2.0250.0.0003	3	2.5	8.7	68.8	119	100/500/1000
3.540.3.2.2.0250.0.0004	4	2.5	9.6	90.2	151	100/500/1000
3.540.3.2.2.0250.0.0005	5	2.5	10.5	111.6	190	100/500/1000
3.540.3.2.2.0250.0.0006	6	2.5	11.4	133	226	100/500/1000
3.540.3.2.2.0250.0.0007	7	2.5	11.4	154.4	242	100/500/1000
3.540.3.2.2.0250.0.0008	8	2.5	12.6	175.9	290	100/500/1000
3.540.3.2.2.0250.0.0009	9	2.5	14.6	197.3	328	100/500/1000
3.540.3.2.2.0250.0.0010	10	2.5	14.6	218.7	344	100/500/1000
3.540.3.2.2.0250.0.0012	12	2.5	15.2	261.6	404	100/500/1000
3.540.3.2.2.0250.0.0014	14	2.5	16.1	304.5	465	100/500/1000
3.540.3.2.2.0250.0.0016	16	2.5	16.9	347.3	523	100/500/1000
3.540.3.2.2.0250.0.0018	18	2.5	17.9	390.2	597	100/500/1000
3.540.3.2.2.0250.0.0019	19	2.5	17.9	411.6	612	100/500/1000
3.540.3.2.2.0250.0.0020	20	2.5	18.9	433.1	663	100/500/1000
3.540.3.2.2.0250.0.0021	21	2.5	18.9	454.5	672	100/500/1000
3.540.3.2.2.0250.0.0024	24	2.5	21.1	518.8	774	100/500/1000
3.540.3.2.2.0250.0.0025	25	2.5	21.1	540.2	823	100/500/1000
3.540.3.2.2.0250.0.0027	27	2.5	21.6	583.1	857	100/500/1000