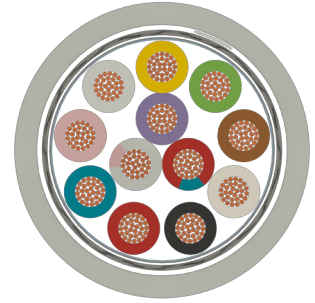
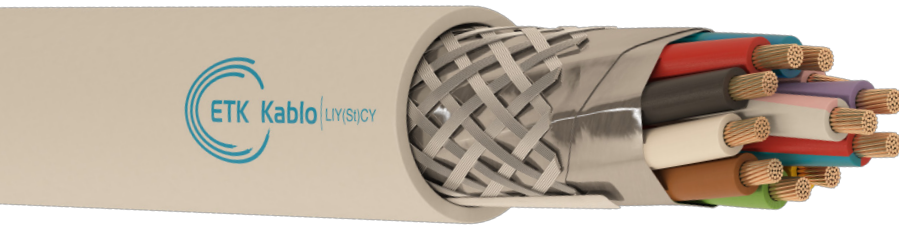


Electronic Control Cables

Signal Cables

LIY(St)CY



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 : Al/PET tape, tinned copper braiding
- 6 - Outer Jacket : UV resistant PVC 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	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

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)CY

Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.522.2.2.2.0022.0.0002	2	0.22	3.8	8.3	20	100/500/1000
3.522.2.2.2.0022.0.0003	3	0.22	4	10.4	24	100/500/1000
3.522.2.2.2.0022.0.0004	4	0.22	4.4	12.8	29	100/500/1000
3.522.2.2.2.0022.0.0005	5	0.22	4.7	16.1	35	100/500/1000
3.522.2.2.2.0022.0.0006	6	0.22	5.2	18.4	41	100/500/1000
3.522.2.2.2.0022.0.0007	7	0.22	5.2	20.5	44	100/500/1000
3.522.2.2.2.0022.0.0008	8	0.22	5.6	23	49	100/500/1000
3.522.2.2.2.0022.0.0009	9	0.22	5.9	26.2	55	100/500/1000
3.522.2.2.2.0022.0.0010	10	0.22	6.5	28.4	61	100/500/1000
3.522.2.2.2.0022.0.0012	12	0.22	6.9	33.5	73	100/500/1000
3.522.2.2.2.0022.0.0014	14	0.22	7.1	38.4	79	100/500/1000
3.522.2.2.2.0022.0.0016	16	0.22	7.4	42.9	87	100/500/1000
3.522.2.2.2.0022.0.0018	18	0.22	7.8	47.3	96	100/500/1000
3.522.2.2.2.0022.0.0019	19	0.22	7.8	49.4	99	100/500/1000
3.522.2.2.2.0022.0.0020	20	0.22	8.2	52.3	105	100/500/1000
3.522.2.2.2.0022.0.0021	21	0.22	8.2	54.5	108	100/500/1000
3.522.2.2.2.0022.0.0024	24	0.22	9.1	62.4	125	100/500/1000
3.522.2.2.2.0022.0.0025	25	0.22	9.1	64.5	128	100/500/1000
3.522.2.2.2.0022.0.0027	27	0.22	9.3	69.4	136	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)
3.522.2.2.2.0034.0.0002	2	0.34	4.6	11.7	29	100/500/1000
3.522.2.2.2.0034.0.0003	3	0.34	4.8	15.4	35	100/500/1000
3.522.2.2.2.0034.0.0004	4	0.34	5.3	18.9	43	100/500/1000
3.522.2.2.2.0034.0.0005	5	0.34	5.8	22.6	52	100/500/1000
3.522.2.2.2.0034.0.0006	6	0.34	6.3	26.9	59	100/500/1000
3.522.2.2.2.0034.0.0007	7	0.34	6.3	30.2	65	100/500/1000
3.522.2.2.2.0034.0.0008	8	0.34	6.8	33.6	72	100/500/1000
3.522.2.2.2.0034.0.0009	9	0.34	7.3	38.1	81	100/500/1000
3.522.2.2.2.0034.0.0010	10	0.34	7.9	41.7	89	100/500/1000
3.522.2.2.2.0034.0.0012	12	0.34	8.1	48.9	101	100/500/1000
3.522.2.2.2.0034.0.0014	14	0.34	8.7	56.1	118	100/500/1000
3.522.2.2.2.0034.0.0016	16	0.34	9.1	64.1	131	100/500/1000
3.522.2.2.2.0034.0.0018	18	0.34	9.7	71	147	100/500/1000
3.522.2.2.2.0034.0.0019	19	0.34	9.7	74.4	152	100/500/1000
3.522.2.2.2.0034.0.0020	20	0.34	10.2	78	159	100/500/1000
3.522.2.2.2.0034.0.0021	21	0.34	10.2	81.4	165	100/500/1000
3.522.2.2.2.0034.0.0024	24	0.34	11.4	93	192	100/500/1000
3.522.2.2.2.0034.0.0025	25	0.34	11.4	96.4	198	100/500/1000
3.522.2.2.2.0034.0.0027	27	0.34	11.6	103.2	209	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)
3.522.2.2.2.0050.0.0002	2	0.5	5	14.2	34	100/500/1000
3.522.2.2.2.0050.0.0003	3	0.5	5.3	18.6	41	100/500/1000
3.522.2.2.2.0050.0.0004	4	0.5	5.8	23.7	52	100/500/1000
3.522.3.2.2.0050.0.0005	5	0.5	6.4	29.1	64	100/500/1000
3.522.3.2.2.0050.0.0006	6	0.5	6.9	34.8	76	100/500/1000
3.522.3.2.2.0050.0.0007	7	0.5	6.9	39.2	79	100/500/1000

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3.522.3.2.2.0050.0.0008	8	0.5	7.5	43.9	94	100/500/1000
3.522.3.2.2.0050.0.0009	9	0.5	8.8	50.9	110	100/500/1000
3.522.3.2.2.0050.0.0010	10	0.5	8.8	55.4	113	100/500/1000
3.522.3.2.2.0050.0.0012	12	0.5	9.2	64.7	131	100/500/1000
3.522.3.2.2.0050.0.0014	14	0.5	9.7	73.7	149	100/500/1000
3.522.3.2.2.0050.0.0016	16	0.5	10.2	83.3	166	100/500/1000
3.522.3.2.2.0050.0.0018	18	0.5	10.8	92.5	188	100/500/1000
3.522.3.2.2.0050.0.0019	19	0.5	10.8	96.9	192	100/500/1000
3.522.3.2.2.0050.0.0020	20	0.5	11.4	102.5	208	100/500/1000
3.522.3.2.2.0050.0.0021	21	0.5	11.4	106.9	209	100/500/1000
3.522.3.2.2.0050.0.0024	24	0.5	12.7	120.9	242	100/500/1000
3.522.3.2.2.0050.0.0025	25	0.5	12.7	125.3	256	100/500/1000
3.522.3.2.2.0050.0.0027	27	0.5	13	134.4	264	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)
3.522.2.2.2.0075.0.0002	2	0.75	5.6	19.2	43	100/500/1000
3.522.2.2.2.0075.0.0003	3	0.75	5.9	25.9	54	100/500/1000
3.522.2.2.2.0075.0.0004	4	0.75	6.5	33.6	67	100/500/1000
3.522.3.2.2.0075.0.0005	5	0.75	7.1	41.4	84	100/500/1000
3.522.3.2.2.0075.0.0006	6	0.75	7.7	48.5	98	100/500/1000
3.522.3.2.2.0075.0.0007	7	0.75	7.7	55.2	103	100/500/1000
3.522.3.2.2.0075.0.0008	8	0.75	8.5	62.7	125	100/500/1000
3.522.3.2.2.0075.0.0009	9	0.75	9.8	70.5	142	100/500/1000
3.522.3.2.2.0075.0.0010	10	0.75	9.8	77.7	147	100/500/1000
3.522.3.2.2.0075.0.0012	12	0.75	10.2	91.5	170	100/500/1000
3.522.3.2.2.0075.0.0014	14	0.75	10.8	105.6	195	100/500/1000
3.522.3.2.2.0075.0.0016	16	0.75	11.3	120.1	217	100/500/1000
3.522.3.2.2.0075.0.0018	18	0.75	12	136.1	249	100/500/1000
3.522.3.2.2.0075.0.0019	19	0.75	12	142.7	254	100/500/1000
3.522.3.2.2.0075.0.0020	20	0.75	12.7	150.7	275	100/500/1000
3.522.3.2.2.0075.0.0021	21	0.75	12.7	157.4	277	100/500/1000
3.522.3.2.2.0075.0.0024	24	0.75	14	174.8	313	100/500/1000
3.522.3.2.2.0075.0.0025	25	0.75	14	181.5	331	100/500/1000
3.522.3.2.2.0075.0.0027	27	0.75	14.4	197.7	349	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)
3.522.2.2.2.0100.0.0002	2	1	6	23.5	50	100/500/1000
3.522.2.2.2.0100.0.0003	3	1	6.3	32	63	100/500/1000
3.522.3.2.2.0100.0.0004	4	1	7	41.3	79	100/500/1000
3.522.3.2.2.0100.0.0005	5	1	7.7	49.9	98	100/500/1000
3.522.3.2.2.0100.0.0006	6	1	8.3	59.8	116	100/500/1000
3.522.3.2.2.0100.0.0007	7	1	8.3	68.1	123	100/500/1000
3.522.3.2.2.0100.0.0008	8	1	9.2	77.5	148	100/500/1000
3.522.3.2.2.0100.0.0009	9	1	10.6	86.7	168	100/500/1000
3.522.3.2.2.0100.0.0010	10	1	10.6	94.9	174	100/500/1000
3.522.3.2.2.0100.0.0012	12	1	11	112.4	202	100/500/1000
3.522.3.2.2.0100.0.0014	14	1	11.7	132.6	234	100/500/1000
3.522.3.2.2.0100.0.0016	16	1	12.3	150.7	261	100/500/1000
3.522.3.2.2.0100.0.0018	18	1	13	164.3	293	100/500/1000

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3.522.3.2.2.0100.0.0019	19	1	13	172.5	299	100/500/1000
3.522.3.2.2.0100.0.0020	20	1	13.7	183.4	326	100/500/1000
3.522.3.2.2.0100.0.0021	21	1	13.7	191.7	329	100/500/1000
3.522.3.2.2.0100.0.0024	24	1	15.2	219.3	377	100/500/1000
3.522.3.2.2.0100.0.0025	25	1	15.2	227.6	400	100/500/1000
3.522.3.2.2.0100.0.0027	27	1	15.5	244.4	414	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)
3.522.2.2.2.0150.0.0002	2	1.5	6.7	32.8	64	100/500/1000
3.522.2.2.2.0150.0.0003	3	1.5	7.1	46.2	83	100/500/1000
3.522.2.2.2.0150.0.0004	4	1.5	7.8	60.2	105	100/500/1000
3.522.3.2.2.0150.0.0005	5	1.5	8.6	74.6	131	100/500/1000
3.522.3.2.2.0150.0.0006	6	1.5	9.3	88.7	155	100/500/1000
3.522.3.2.2.0150.0.0007	7	1.5	9.3	101.6	165	100/500/1000
3.522.3.2.2.0150.0.0008	8	1.5	10.2	115.2	197	100/500/1000
3.522.3.2.2.0150.0.0009	9	1.5	11.9	129.4	224	100/500/1000
3.522.3.2.2.0150.0.0010	10	1.5	11.9	142.3	234	100/500/1000
3.522.3.2.2.0150.0.0012	12	1.5	12.4	171.8	276	100/500/1000
3.522.3.2.2.0150.0.0014	14	1.5	13.1	199	316	100/500/1000
3.522.3.2.2.0150.0.0016	16	1.5	13.8	224.2	352	100/500/1000
3.522.3.2.2.0150.0.0018	18	1.5	14.6	251.1	401	100/500/1000
3.522.3.2.2.0150.0.0019	19	1.5	14.6	264	411	100/500/1000
3.522.3.2.2.0150.0.0020	20	1.5	15.4	278.5	445	100/500/1000
3.522.3.2.2.0150.0.0021	21	1.5	15.4	289.7	448	100/500/1000
3.522.3.2.2.0150.0.0024	24	1.5	17.2	331.1	518	100/500/1000
3.522.3.2.2.0150.0.0025	25	1.5	17.2	344	548	100/500/1000
3.522.3.2.2.0150.0.0027	27	1.5	17.6	370.1	570	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)
3.522.2.2.2.0250.0.0002	2	2.5	7.8	52.8	90	100/500/1000
3.522.2.2.2.0250.0.0003	3	2.5	8.3	74.7	119	100/500/1000
3.522.2.2.2.0250.0.0004	4	2.5	9.2	97.3	155	100/500/1000
3.522.3.2.2.0250.0.0005	5	2.5	10.3	120.3	197	100/500/1000
3.522.3.2.2.0250.0.0006	6	2.5	11.2	145.8	238	100/500/1000
3.522.3.2.2.0250.0.0007	7	2.5	11.2	167.4	254	100/500/1000
3.522.3.2.2.0250.0.0008	8	2.5	12.4	190.3	304	100/500/1000
3.522.3.2.2.0250.0.0009	9	2.5	14.5	212.6	346	100/500/1000
3.522.3.2.2.0250.0.0010	10	2.5	14.5	234.1	362	100/500/1000
3.522.3.2.2.0250.0.0012	12	2.5	15.1	277.4	422	100/500/1000
3.522.3.2.2.0250.0.0014	14	2.5	15.9	322.1	485	100/500/1000
3.522.3.2.2.0250.0.0016	16	2.5	16.8	365.8	545	100/500/1000
3.522.3.2.2.0250.0.0018	18	2.5	17.8	411.2	621	100/500/1000
3.522.3.2.2.0250.0.0019	19	2.5	17.8	432.8	636	100/500/1000
3.522.3.2.2.0250.0.0020	20	2.5	18.8	455.5	689	100/500/1000
3.522.3.2.2.0250.0.0021	21	2.5	18.8	477	697	100/500/1000
3.522.3.2.2.0250.0.0024	24	2.5	20.9	548.3	802	100/500/1000
3.522.3.2.2.0250.0.0025	25	2.5	20.9	569.9	851	100/500/1000
3.522.3.2.2.0250.0.0027	27	2.5	21.4	616.8	889	100/500/1000