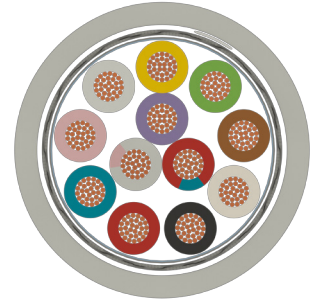
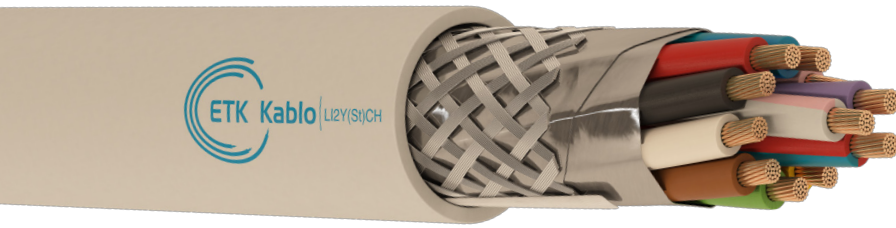


Electronic Control Cables

Signal Cables

LI2Y(St)CH

RoHS REACH 



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 : Solid polyethylene (EN 50290-2-23, BS 6234 Type 03 - ASTM D 1248) (DIN 47100)
- 3 - Stranding : In layers
- 4 - Wrapping : Polyester tape
- 5 - Screen : Al/PET tape, tinned copper braiding
- 6 - 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

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Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.522.31.3.0022.0.0002	2	0.22	3.8	9.7	20	100/500/1000
3.522.31.3.0022.0.0003	3	0.22	4	11.8	23	100/500/1000
3.522.31.3.0022.0.0004	4	0.22	4.4	14	28	100/500/1000
3.522.31.3.0022.0.0005	5	0.22	4.8	16.2	32	100/500/1000
3.522.31.3.0022.0.0006	6	0.22	5.2	18.4	37	100/500/1000
3.522.31.3.0022.0.0007	7	0.22	5.2	20.5	40	100/500/1000
3.522.31.3.0022.0.0008	8	0.22	5.6	23.9	46	100/500/1000
3.522.31.3.0022.0.0009	9	0.22	6	26.3	50	100/500/1000
3.522.31.3.0022.0.0010	10	0.22	6.5	28.4	56	100/500/1000
3.522.31.3.0022.0.0012	12	0.22	6.8	33.7	65	100/500/1000
3.522.31.3.0022.0.0014	14	0.22	7.1	38.4	72	100/500/1000
3.522.31.3.0022.0.0016	16	0.22	7.5	42.9	79	100/500/1000
3.522.31.3.0022.0.0018	18	0.22	7.8	47.4	86	100/500/1000
3.522.31.3.0022.0.0019	19	0.22	7.8	49.5	89	100/500/1000
3.522.31.3.0022.0.0020	20	0.22	8.2	52.4	94	100/500/1000
3.522.31.3.0022.0.0021	21	0.22	8.2	54.5	97	100/500/1000
3.522.31.3.0022.0.0024	24	0.22	9.1	62.5	112	100/500/1000
3.522.31.3.0022.0.0025	25	0.22	9.1	64.6	115	100/500/1000
3.522.31.3.0022.0.0027	27	0.22	9.3	69.4	122	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.522.31.3.0034.0.0002	2	0.34	4.6	13.4	28	100/500/1000
3.522.31.3.0034.0.0003	3	0.34	4.9	16.7	33	100/500/1000
3.522.31.3.0034.0.0004	4	0.34	5.4	20	40	100/500/1000
3.522.31.3.0034.0.0005	5	0.34	5.9	24.7	49	100/500/1000
3.522.31.3.0034.0.0006	6	0.34	6.3	28	55	100/500/1000
3.522.31.3.0034.0.0007	7	0.34	6.3	31.3	60	100/500/1000
3.522.31.3.0034.0.0008	8	0.34	6.8	36	67	100/500/1000
3.522.31.3.0034.0.0009	9	0.34	7.4	39.3	75	100/500/1000
3.522.31.3.0034.0.0010	10	0.34	7.9	44	83	100/500/1000
3.522.31.3.0034.0.0012	12	0.34	8.2	50.6	93	100/500/1000
3.522.31.3.0034.0.0014	14	0.34	8.8	57.3	107	100/500/1000
3.522.31.3.0034.0.0016	16	0.34	9.2	63.9	118	100/500/1000
3.522.31.3.0034.0.0018	18	0.34	9.7	70.6	131	100/500/1000
3.522.31.3.0034.0.0019	19	0.34	9.7	73.9	136	100/500/1000
3.522.31.3.0034.0.0020	20	0.34	11	77.3	142	100/500/1000
3.522.31.3.0034.0.0021	21	0.34	11	80.6	147	100/500/1000
3.522.31.3.0034.0.0024	24	0.34	12	95.2	175	100/500/1000
3.522.31.3.0034.0.0025	25	0.34	12	98.6	179	100/500/1000
3.522.31.3.0034.0.0027	27	0.34	12	105.2	189	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.522.31.3.0050.0.0002	2	0.5	5	15.6	32	100/500/1000
3.522.31.3.0050.0.0003	3	0.5	5.3	20.1	39	100/500/1000
3.522.31.3.0050.0.0004	4	0.5	5.8	24.6	48	100/500/1000
3.522.31.3.0050.0.0005	5	0.5	6.4	29.1	58	100/500/1000
3.522.31.3.0050.0.0006	6	0.5	6.9	34.8	68	100/500/1000
3.522.31.3.0050.0.0007	7	0.5	6.9	39.3	72	100/500/1000
3.522.31.3.0050.0.0008	8	0.5	7.6	44	84	100/500/1000

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3.522.31.3.0050.0.0009	9	0.5	8.8	51	99	100/500/1000
3.522.31.3.0050.0.0010	10	0.5	8.8	55.4	103	100/500/1000
3.522.31.3.0050.0.0012	12	0.5	9.2	64.7	118	100/500/1000
3.522.31.3.0050.0.0014	14	0.5	9.7	73.8	134	100/500/1000
3.522.31.3.0050.0.0016	16	0.5	11	83.3	149	100/500/1000
3.522.31.3.0050.0.0018	18	0.5	11	92.5	168	100/500/1000
3.522.31.3.0050.0.0019	19	0.5	11	96.9	172	100/500/1000
3.522.31.3.0050.0.0020	20	0.5	12	102.5	185	100/500/1000
3.522.31.3.0050.0.0021	21	0.5	12	106.9	187	100/500/1000
3.522.31.3.0050.0.0024	24	0.5	13	123.5	220	100/500/1000
3.522.31.3.0050.0.0025	25	0.5	13	127.9	230	100/500/1000
3.522.31.3.0050.0.0027	27	0.5	13	136.8	238	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.522.31.3.0075.0.0002	2	0.75	5.6	20.1	41	100/500/1000
3.522.31.3.0075.0.0003	3	0.75	6	26.8	50	100/500/1000
3.522.31.3.0075.0.0004	4	0.75	6.5	33.6	62	100/500/1000
3.522.31.3.0075.0.0005	5	0.75	7.2	41.4	77	100/500/1000
3.522.31.3.0075.0.0006	6	0.75	7.7	48.6	89	100/500/1000
3.522.31.3.0075.0.0007	7	0.75	7.7	55.2	95	100/500/1000
3.522.31.3.0075.0.0008	8	0.75	8.5	62.8	113	100/500/1000
3.522.31.3.0075.0.0009	9	0.75	9.8	70.6	128	100/500/1000
3.522.31.3.0075.0.0010	10	0.75	9.8	77.7	134	100/500/1000
3.522.31.3.0075.0.0012	12	0.75	11	91.6	155	100/500/1000
3.522.31.3.0075.0.0014	14	0.75	11	105.7	177	100/500/1000
3.522.31.3.0075.0.0016	16	0.75	12	120.1	197	100/500/1000
3.522.31.3.0075.0.0018	18	0.75	13	136.1	225	100/500/1000
3.522.31.3.0075.0.0019	19	0.75	13	142.8	230	100/500/1000
3.522.31.3.0075.0.0020	20	0.75	13	150.8	248	100/500/1000
3.522.31.3.0075.0.0021	21	0.75	13	157.4	251	100/500/1000
3.522.31.3.0075.0.0024	24	0.75	14	177.8	286	100/500/1000
3.522.31.3.0075.0.0025	25	0.75	14	184.4	300	100/500/1000
3.522.31.3.0075.0.0027	27	0.75	15	197.8	316	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.522.31.3.0100.0.0002	2	1	6	23.5	47	100/500/1000
3.522.31.3.0100.0.0003	3	1	6.4	32	58	100/500/1000
3.522.31.3.0100.0.0004	4	1	7	41.4	73	100/500/1000
3.522.31.3.0100.0.0005	5	1	7.7	50	89	100/500/1000
3.522.31.3.0100.0.0006	6	1	8.3	59.8	105	100/500/1000
3.522.31.3.0100.0.0007	7	1	8.3	68.1	112	100/500/1000
3.522.31.3.0100.0.0008	8	1	9.2	77.6	134	100/500/1000
3.522.31.3.0100.0.0009	9	1	11	86.7	152	100/500/1000
3.522.31.3.0100.0.0010	10	1	11	95	159	100/500/1000
3.522.31.3.0100.0.0012	12	1	12	112.4	184	100/500/1000
3.522.31.3.0100.0.0014	14	1	12	132.6	213	100/500/1000
3.522.31.3.0100.0.0016	16	1	13	150.7	238	100/500/1000
3.522.31.3.0100.0.0018	18	1	13	166.6	267	100/500/1000
3.522.31.3.0100.0.0019	19	1	13	174.9	273	100/500/1000
3.522.31.3.0100.0.0020	20	1	14	183.5	293	100/500/1000
3.522.31.3.0100.0.0021	21	1	14	191.8	298	100/500/1000
3.522.31.3.0100.0.0024	24	1	16	219.3	342	100/500/1000
3.522.31.3.0100.0.0025	25	1	16	227.6	359	100/500/1000
3.522.31.3.0100.0.0027	27	1	16	244.5	374	100/500/1000

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Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.522.3.1.3.0150.0.0002	2	1.5	6.5	34.1	60	100/500/1000
3.522.3.1.3.0150.0.0003	3	1.5	6.9	47	76	100/500/1000
3.522.3.1.3.0150.0.0004	4	1.5	7.6	60.2	95	100/500/1000
3.522.3.1.3.0150.0.0005	5	1.5	8.4	74.7	117	100/500/1000
3.522.3.1.3.0150.0.0006	6	1.5	9	88.8	138	100/500/1000
3.522.3.1.3.0150.0.0007	7	1.5	9	101.7	148	100/500/1000
3.522.3.1.3.0150.0.0008	8	1.5	10	115.2	176	100/500/1000
3.522.3.1.3.0150.0.0009	9	1.5	12	129.4	200	100/500/1000
3.522.3.1.3.0150.0.0010	10	1.5	12	142.3	210	100/500/1000
3.522.3.1.3.0150.0.0012	12	1.5	13	171.8	247	100/500/1000
3.522.3.1.3.0150.0.0014	14	1.5	13	199.1	283	100/500/1000
3.522.3.1.3.0150.0.0016	16	1.5	14	224.2	315	100/500/1000
3.522.3.1.3.0150.0.0018	18	1.5	15	251.1	356	100/500/1000
3.522.3.1.3.0150.0.0019	19	1.5	15	264.1	367	100/500/1000
3.522.3.1.3.0150.0.0020	20	1.5	15	278.5	394	100/500/1000
3.522.3.1.3.0150.0.0021	21	1.5	15	291.4	401	100/500/1000
3.522.3.1.3.0150.0.0024	24	1.5	17	331.1	462	100/500/1000
3.522.3.1.3.0150.0.0025	25	1.5	17	344.1	485	100/500/1000
3.522.3.1.3.0150.0.0027	27	1.5	17	370.1	508	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)
3.522.3.1.3.0250.0.0002	2	2.5	7.8	52.8	85	100/500/1000
3.522.3.1.3.0250.0.0003	3	2.5	8.3	74.7	111	100/500/1000
3.522.3.1.3.0250.0.0004	4	2.5	9.3	97.4	143	100/500/1000
3.522.3.1.3.0250.0.0005	5	2.5	11	120.3	181	100/500/1000
3.522.3.1.3.0250.0.0006	6	2.5	12	145.9	218	100/500/1000
3.522.3.1.3.0250.0.0007	7	2.5	12	167.4	235	100/500/1000
3.522.3.1.3.0250.0.0008	8	2.5	13	190.4	278	100/500/1000
3.522.3.1.3.0250.0.0009	9	2.5	15	212.6	317	100/500/1000
3.522.3.1.3.0250.0.0010	10	2.5	15	234.1	334	100/500/1000
3.522.3.1.3.0250.0.0012	12	2.5	16	277.5	389	100/500/1000
3.522.3.1.3.0250.0.0014	14	2.5	16	322.2	447	100/500/1000
3.522.3.1.3.0250.0.0016	16	2.5	17	365.8	501	100/500/1000
3.522.3.1.3.0250.0.0018	18	2.5	18	411.3	568	100/500/1000
3.522.3.1.3.0250.0.0019	19	2.5	18	432.8	585	100/500/1000
3.522.3.1.3.0250.0.0020	20	2.5	19	455.5	629	100/500/1000
3.522.3.1.3.0250.0.0021	21	2.5	19	477.1	641	100/500/1000
3.522.3.1.3.0250.0.0024	24	2.5	21	548.4	738	100/500/1000
3.522.3.1.3.0250.0.0025	25	2.5	21	569.9	776	100/500/1000
3.522.3.1.3.0250.0.0027	27	2.5	22	616.9	817	100/500/1000