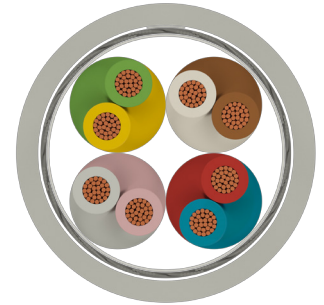
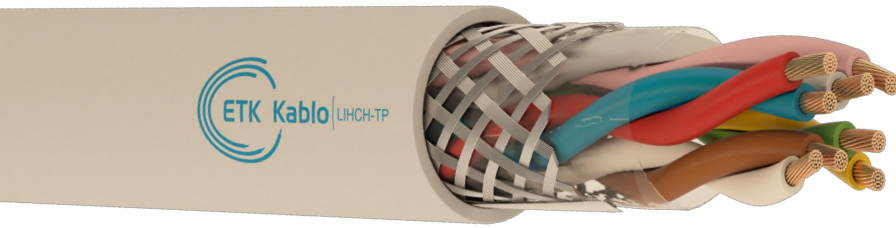


Electronic Control Cables

Signal Cables

LIHCH-TP



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.
- Suitable for indoor and outdoor applications.
- Suitable for dry and wet conditions.

Cable Construction

- 1 - Conductor : Stranded electrolytic copper conductor (Class 5) (IEC 60228, EN 60228, DIN VDE 0295)
- 2 - Insulation : Halogen-free (TS IEC 60189-2, EN 50290-2-26) (DIN 47100)
- 3 - Stranding : Insulations are stranded into pairs and all pairs are stranded together.
- 4 - Wrapping : Polyester tape
- 5 - Screen : 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 $M \Omega/\text{km}$ (20 °C)	Mutual Capacitance pF/m	Current Carrying Capacity A	Impedance Ω	Inductance mH/km	Operating Voltage $V \text{ DC}$	Test Voltage $V \text{ (DC, 1 minute)}$
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

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	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.533.2.3.3.0022.0.0002	2	0.22	4.9	15.1	32	100/500/1000
3.533.2.3.3.0022.0.0003	3	0.22	5.7	20.8	44	100/500/1000
3.533.2.3.3.0022.0.0004	4	0.22	6.9	26.5	57	100/500/1000
3.533.2.3.3.0022.0.0005	5	0.22	7.4	32.3	66	100/500/1000
3.533.2.3.3.0022.0.0006	6	0.22	8.2	36.7	77	100/500/1000
3.533.2.3.3.0022.0.0007	7	0.22	8.3	42	86	100/500/1000
3.533.2.3.3.0022.0.0008	8	0.22	9	50.3	100	100/500/1000
3.533.2.3.3.0022.0.0009	9	0.22	10.5	54.6	112	100/500/1000
3.533.2.3.3.0022.0.0010	10	0.22	10.6	59	121	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)
3.533.2.3.3.0025.0.0002	2	0.25	5.2	21.2	39	100/500/1000
3.533.2.3.3.0025.0.0003	3	0.25	6.1	22.9	48	100/500/1000
3.533.2.3.3.0025.0.0004	4	0.25	7.4	36.2	70	100/500/1000
3.533.2.3.3.0025.0.0005	5	0.25	8	35	75	100/500/1000
3.533.2.3.3.0025.0.0006	6	0.25	8.8	41	88	100/500/1000
3.533.2.3.3.0025.0.0007	7	0.25	8.9	46.7	98	100/500/1000
3.533.2.3.3.0025.0.0008	8	0.25	9.7	55.3	113	100/500/1000
3.533.2.3.3.0025.0.0009	9	0.25	11.4	59.6	126	100/500/1000
3.533.2.3.3.0025.0.0010	10	0.25	11.5	64.5	137	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)
3.533.2.3.3.0034.0.0002	2	0.34	5.8	21.5	43	100/500/1000
3.533.2.3.3.0034.0.0003	3	0.34	6.8	30.7	60	100/500/1000
3.533.2.3.3.0034.0.0004	4	0.34	8.3	38.2	79	100/500/1000
3.533.2.3.3.0034.0.0005	5	0.34	9	46.3	93	100/500/1000
3.533.2.3.3.0034.0.0006	6	0.34	9.9	56.3	112	100/500/1000
3.533.2.3.3.0034.0.0007	7	0.34	10	63.1	124	100/500/1000
3.533.2.3.3.0034.0.0008	8	0.34	10.9	70.4	139	100/500/1000
3.533.2.3.3.0034.0.0009	9	0.34	12.8	77.3	157	100/500/1000
3.533.2.3.3.0034.0.0010	10	0.34	12.9	84.9	171	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)
3.533.2.3.3.0050.0.0002	2	0.5	6.4	27.9	61	100/500/1000
3.533.2.3.3.0050.0.0003	3	0.5	7.5	37.3	71	100/500/1000
3.533.2.3.3.0050.0.0004	4	0.5	9.2	51.8	99	100/500/1000
3.533.2.3.3.0050.0.0005	5	0.5	10.1	60.6	115	100/500/1000
3.533.2.3.3.0050.0.0006	6	0.5	11	69.3	134	100/500/1000
3.533.2.3.3.0050.0.0007	7	0.5	11.1	78.3	150	100/500/1000
3.533.2.3.3.0050.0.0008	8	0.5	12.1	88.7	168	100/500/1000
3.533.2.3.3.0050.0.0009	9	0.5	14.2	98.8	191	100/500/1000
3.533.2.3.3.0050.0.0010	10	0.5	14.3	108	208	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)
3.533.2.3.3.0075.0.0002	2	0.75	7	37.1	74	100/500/1000
3.533.2.3.3.0075.0.0003	3	0.75	8.2	51.9	90	100/500/1000
3.533.2.3.3.0075.0.0004	4	0.75	10.1	70.4	123	100/500/1000
3.533.2.3.3.0075.0.0005	5	0.75	11	82.7	143	100/500/1000
3.533.2.3.3.0075.0.0006	6	0.75	12.1	96.7	168	100/500/1000
3.533.2.3.3.0075.0.0007	7	0.75	12.2	111.1	190	100/500/1000
3.533.2.3.3.0075.0.0008	8	0.75	13.3	125.8	214	100/500/1000
3.533.2.3.3.0075.0.0009	9	0.75	15.6	140.7	243	100/500/1000
3.533.2.3.3.0075.0.0010	10	0.75	15.7	154.5	265	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)
3.533.2.3.3.0100.0.0002	2	1	7.6	44.5	87	100/500/1000
3.533.2.3.3.0100.0.0003	3	1	8.9	66	108	100/500/1000
3.533.2.3.3.0100.0.0004	4	1	10.9	82.7	142	100/500/1000
3.533.2.3.3.0100.0.0005	5	1	12	100.1	169	100/500/1000
3.533.2.3.3.0100.0.0006	6	1	13.2	118.8	200	100/500/1000
3.533.2.3.3.0100.0.0007	7	1	13.3	137.1	227	100/500/1000
3.533.2.3.3.0100.0.0008	8	1	14.5	154.4	254	100/500/1000
3.533.2.3.3.0100.0.0009	9	1	17.1	177.5	294	100/500/1000
3.533.2.3.3.0100.0.0010	10	1	17.2	196.8	322	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)
3.533.2.3.3.0150.0.0002	2	1.5	8.4	63.8	114	100/500/1000
3.533.2.3.3.0150.0.0003	3	1.5	10.9	95	146	100/500/1000
3.533.2.3.3.0150.0.0004	4	1.5	12.2	120.4	187	100/500/1000
3.533.2.3.3.0150.0.0005	5	1.5	13.4	148.5	225	100/500/1000
3.533.2.3.3.0150.0.0006	6	1.5	14.8	176.2	268	100/500/1000
3.533.2.3.3.0150.0.0007	7	1.5	14.9	202.9	304	100/500/1000
3.533.2.3.3.0150.0.0008	8	1.5	16.3	235.4	347	100/500/1000
3.533.2.3.3.0150.0.0009	9	1.5	19.3	264.1	395	100/500/1000
3.533.2.3.3.0150.0.0010	10	1.5	19.4	290.8	432	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)
3.533.2.3.3.0250.0.0002	2	2.5	10.8	102.5	187	100/500/1000
3.533.2.3.3.0250.0.0003	3	2.5	13.9	148.6	240	100/500/1000
3.533.2.3.3.0250.0.0004	4	2.5	15.5	198.4	312	100/500/1000
3.533.2.3.3.0250.0.0005	5	2.5	17.1	246.5	377	100/500/1000
3.533.2.3.3.0250.0.0006	6	2.5	18.8	291	444	100/500/1000
3.533.2.3.3.0250.0.0007	7	2.5	18.9	338.3	503	100/500/1000
3.533.2.3.3.0250.0.0008	8	2.5	20.6	383.1	567	100/500/1000
3.533.2.3.3.0250.0.0009	9	2.5	24.4	430.6	652	100/500/1000
3.533.2.3.3.0250.0.0010	10	2.5	24.4	475.2	704	100/500/1000