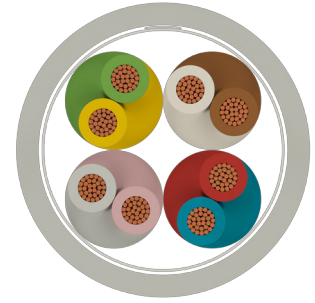


Electronic Control Cables

Signal Cables

LIHH-TP



Application

- . In crowded indoor environments.
- . 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 : 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 - 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	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

Color code could be JZ, OZ, JB, OB according to customer demand.
Reference Standard: DIN VDE 0812

LIHH-TP

Part Number	Pair Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.513.2.3.3.0050.0.0001	1	0.5	4.9	8.8	28	100/500/1000
3.513.2.3.3.0050.0.0002	2	0.5	6.4	17.7	47	100/500/1000
3.513.2.3.3.0050.0.0003	3	0.5	7.5	26.5	65	100/500/1000
3.513.2.3.3.0050.0.0004	4	0.5	9.2	35.4	88	100/500/1000
3.513.2.3.3.0050.0.0005	5	0.5	9.6	44.2	102	100/500/1000
3.513.2.3.3.0050.0.0006	6	0.5	10.2	53.1	120	100/500/1000
3.513.2.3.3.0050.0.0007	7	0.5	11.1	61.9	139	100/500/1000
3.513.2.3.3.0050.0.0008	8	0.5	11.6	70.8	154	100/500/1000
3.513.2.3.3.0050.0.0009	9	0.5	12.3	79.6	173	100/500/1000
3.513.2.3.3.0050.0.0010	10	0.5	12.8	88.5	188	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)
3.513.2.3.3.0075.0.0001	1	0.75	5.4	13.3	36	100/500/1000
3.513.2.3.3.0075.0.0002	2	0.75	7.2	26.5	62	100/500/1000
3.513.2.3.3.0075.0.0003	3	0.75	8.4	39.8	86	100/500/1000
3.513.2.3.3.0075.0.0004	4	0.75	10.3	53.1	116	100/500/1000
3.513.2.3.3.0075.0.0005	5	0.75	10.7	66.3	136	100/500/1000
3.513.2.3.3.0075.0.0006	6	0.75	11.4	79.6	159	100/500/1000
3.513.2.3.3.0075.0.0007	7	0.75	12.4	92.9	185	100/500/1000
3.513.2.3.3.0075.0.0008	8	0.75	12.9	106.2	205	100/500/1000
3.513.2.3.3.0075.0.0009	9	0.75	13.7	119.4	230	100/500/1000
3.513.2.3.3.0075.0.0010	10	0.75	14.3	132.7	251	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)
3.513.2.3.3.0100.0.0001	1	1	5.7	16.6	40	100/500/1000
3.513.2.3.3.0100.0.0002	2	1	7.7	33.2	71	100/500/1000
3.513.2.3.3.0100.0.0003	3	1	8.9	49.8	99	100/500/1000
3.513.2.3.3.0100.0.0004	4	1	11	66.3	135	100/500/1000
3.513.2.3.3.0100.0.0005	5	1	11.5	82.9	158	100/500/1000
3.513.2.3.3.0100.0.0006	6	1	12.3	99.5	186	100/500/1000
3.513.2.3.3.0100.0.0007	7	1	13.4	116.1	216	100/500/1000
3.513.2.3.3.0100.0.0008	8	1	14	132.7	241	100/500/1000
3.513.2.3.3.0100.0.0009	9	1	14.8	149.3	270	100/500/1000
3.513.2.3.3.0100.0.0010	10	1	15.4	165.9	295	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)
3.513.2.3.3.0150.0.0001	1	1.5	6.4	25.8	54	100/500/1000
3.513.2.3.3.0150.0.0002	2	1.5	8.6	51.7	96	100/500/1000
3.513.2.3.3.0150.0.0003	3	1.5	10.1	77.5	136	100/500/1000
3.513.2.3.3.0150.0.0004	4	1.5	12.4	103.4	183	100/500/1000
3.513.2.3.3.0150.0.0005	5	1.5	13	129.2	218	100/500/1000
3.513.2.3.3.0150.0.0006	6	1.5	13.8	155.1	256	100/500/1000
3.513.2.3.3.0150.0.0007	7	1.5	15.1	180.9	298	100/500/1000
3.513.2.3.3.0150.0.0008	8	1.5	15.8	206.8	333	100/500/1000
3.513.2.3.3.0150.0.0009	9	1.5	16.7	232.6	373	100/500/1000
3.513.2.3.3.0150.0.0010	10	1.5	17.4	258.4	409	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)
3.513.2.3.3.0250.0.0001	1	2.5	7.6	43.1	78	100/500/1000
3.513.2.3.3.0250.0.0002	2	2.5	10.5	86.1	146	100/500/1000
3.513.2.3.3.0250.0.0003	3	2.5	12.4	129.2	211	100/500/1000
3.513.2.3.3.0250.0.0004	4	2.5	15.2	172.3	283	100/500/1000
3.513.2.3.3.0250.0.0005	5	2.5	16	215.4	338	100/500/1000