

Electronic Control Cables

Signal Cables

LIH(S^t)H-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 earthing wire, Al/PET tape
- 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)
3.543.2.3.3.0050.0.0001	1	0.5	5.1	11	32	100/500/1000
3.543.2.3.3.0050.0.0002	2	0.5	6.6	19.8	52	100/500/1000
3.543.2.3.3.0050.0.0003	3	0.5	7.7	28.7	70	100/500/1000
3.543.2.3.3.0050.0.0004	4	0.5	9.5	37.5	95	100/500/1000
3.543.2.3.3.0050.0.0005	5	0.5	9.9	46.4	110	100/500/1000
3.543.2.3.3.0050.0.0006	6	0.5	10.5	55.2	128	100/500/1000
3.543.2.3.3.0050.0.0007	7	0.5	11.5	64	148	100/500/1000
3.543.2.3.3.0050.0.0008	8	0.5	12	72.9	163	100/500/1000
3.543.2.3.3.0050.0.0009	9	0.5	12.7	81.7	183	100/500/1000
3.543.2.3.3.0050.0.0010	10	0.5	13.2	90.6	199	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)
3.543.2.3.3.0075.0.0001	1	0.75	5.4	17.7	40	100/500/1000
3.543.2.3.3.0075.0.0002	2	0.75	7.3	30.9	68	100/500/1000
3.543.2.3.3.0075.0.0003	3	0.75	8.4	44.2	92	100/500/1000
3.543.2.3.3.0075.0.0004	4	0.75	10.4	57.5	124	100/500/1000
3.543.2.3.3.0075.0.0005	5	0.75	10.8	70.7	143	100/500/1000
3.543.2.3.3.0075.0.0006	6	0.75	11.5	84	166	100/500/1000
3.543.2.3.3.0075.0.0007	7	0.75	12.5	97.3	192	100/500/1000
3.543.2.3.3.0075.0.0008	8	0.75	13	110.5	213	100/500/1000
3.543.2.3.3.0075.0.0009	9	0.75	13.8	123.8	237	100/500/1000
3.543.2.3.3.0075.0.0010	10	0.75	14.4	137.1	259	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)
3.543.2.3.3.0100.0.0001	1	1	5.8	21	46	100/500/1000
3.543.2.3.3.0100.0.0002	2	1	7.9	37.6	79	100/500/1000
3.543.2.3.3.0100.0.0003	3	1	9.1	54.1	109	100/500/1000
3.543.2.3.3.0100.0.0004	4	1	11.2	70.7	145	100/500/1000
3.543.2.3.3.0100.0.0005	5	1	11.7	87.3	169	100/500/1000
3.543.2.3.3.0100.0.0006	6	1	12.5	103.9	197	100/500/1000
3.543.2.3.3.0100.0.0007	7	1	13.6	120.5	228	100/500/1000
3.543.2.3.3.0100.0.0008	8	1	14.2	137.1	252	100/500/1000
3.543.2.3.3.0100.0.0009	9	1	15	153.7	282	100/500/1000
3.543.2.3.3.0100.0.0010	10	1	15.6	170.2	308	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)
3.543.2.3.3.0150.0.0001	1	1.5	6.7	30.2	63	100/500/1000
3.543.2.3.3.0150.0.0002	2	1.5	8.8	56.1	105	100/500/1000
3.543.2.3.3.0150.0.0003	3	1.5	10.3	81.9	146	100/500/1000
3.543.2.3.3.0150.0.0004	4	1.5	12.6	107.8	194	100/500/1000
3.543.2.3.3.0150.0.0005	5	1.5	13.2	133.6	229	100/500/1000
3.543.2.3.3.0150.0.0006	6	1.5	14	159.4	268	100/500/1000
3.543.2.3.3.0150.0.0007	7	1.5	15.3	185.3	310	100/500/1000
3.543.2.3.3.0150.0.0008	8	1.5	16	211.1	345	100/500/1000
3.543.2.3.3.0150.0.0009	9	1.5	16.9	237	386	100/500/1000
3.543.2.3.3.0150.0.0010	10	1.5	17.6	262.8	422	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)
3.543.2.3.3.0250.0.0001	1	2.5	7.9	47.5	89	100/500/1000
3.543.2.3.3.0250.0.0002	2	2.5	10.6	90.5	153	100/500/1000
3.543.2.3.3.0250.0.0003	3	2.5	12.4	133.6	215	100/500/1000
3.543.2.3.3.0250.0.0004	4	2.5	15.2	176.7	287	100/500/1000
3.543.2.3.3.0250.0.0005	5	2.5	16	219.7	343	100/500/1000
3.543.2.3.3.0250.0.0006	6	2.5	17	262.8	403	100/500/1000
3.543.2.3.3.0250.0.0007	7	2.5	18.6	305.9	468	100/500/1000
3.543.2.3.3.0250.0.0008	8	2.5	19.3	349	524	100/500/1000
3.543.2.3.3.0250.0.0009	9	2.5	20.5	392	586	100/500/1000
3.543.2.3.3.0250.0.0010	10	2.5	21.4	435.1	644	100/500/1000