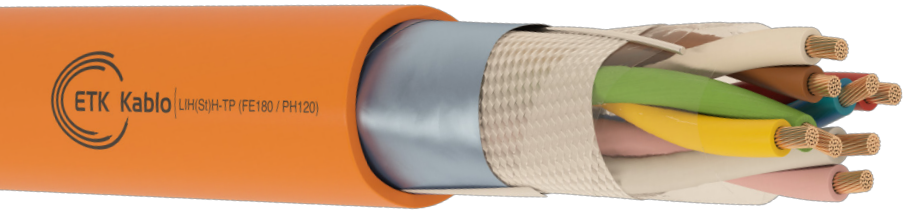
ETK Kablo

Electronic Control Cables
Fire Resistant Cables
LIH(St)H-TP (FE180 / PH120)

RoHS REACH CE



Application

· Signal transmission.
· At instrumentation and control engineering.
· At industrial electronics.
· Computer and office devices.
· Indoor communication systems.
· Indoor sound systems.
· Security and fire alarm 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	: Cross-linked polymer compound in ceramic form (DIN 47100)
3 - Stranding	: Insulations are stranded into pairs and all pairs are stranded together.
4 - Wrapping	: Polyester tape, glass yarn tape
5 - Screen	: Tinned copper earthing wire, Al/PET tape
6 - Outer Jacket	: UV resistant halogen-free outer jacket. RAL 2008 (Orange)

Technical Characteristics

Conductor Diameter	Conductor Resistance Ω/km (20 °C)	Insulation Resistance MΩ/km (500 V DC)	Mutual Capacitance nF/km (800 Hz)	Current Carrying Capacity A	Operating Voltage V DC	Test Voltage V (DC, 1 minute)
0.50 mm²	39	20	120	9	300	2000
0.75 mm²	26	20	120	12	300	2000
1.00 mm²	19.5	20	130	15	300	2000
1.5 mm²	13.3	20	140	18	300	2000
2.5 mm²	7.98	20	150	26	300	2000

Mechanical Characteristics

Bending Radius	Temperature Range Operating
10xD mm	-40°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, BS EN 61034-2	IEC 60754-2, VDE 0482-267-2-3, BS EN 50267-2-3	IEC 60754-1, VDE 0482-267-2-1, EN 50267-2-1, BS EN 50267-2-1	IEC 60332-1-2, VDE 0482-332-1-2, BS EN 60332-1-2	IEC 60332-3-24, VDE 0482-332-3-24, BS EN 60332-3-24

Circuit Integrity Test (FE180)	Circuit Integrity with Shock Test (PH120)
IEC 60331-23	EN 50200, VDE 0482-200, BS EN 50200

Notes
Reference Standard: DIN VDE 0812

LIH(St)H-TP (FE180 / PH120)

Part Number	Pair Count	Conductor Diameter (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.546.2.4.3.0050.0.0001	1	0.5	5.5	11	42	100/500/1000
3.546.2.4.3.0050.0.0002	2	0.5	7.3	19.9	68	100/500/1000
3.546.2.4.3.0050.0.0003	3	0.5	8.4	28.7	90	100/500/1000
3.546.2.4.3.0050.0.0004	4	0.5	10.1	37.6	120	100/500/1000
3.546.2.4.3.0050.0.0005	5	0.5	10.6	46.4	136	100/500/1000
3.546.2.4.3.0050.0.0006	6	0.5	11.2	55.2	157	100/500/1000
3.546.2.4.3.0050.0.0007	7	0.5	12.2	64.1	180	100/500/1000
3.546.2.4.3.0050.0.0008	8	0.5	12.6	72.9	197	100/500/1000
3.546.2.4.3.0050.0.0009	9	0.5	13.3	81.8	219	100/500/1000
3.546.2.4.3.0050.0.0010	10	0.5	13.7	90.6	230	100/500/1000

Part Number	Pair Count	Conductor Diameter (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.546.2.4.3.0075.0.0001	1	0.75	5.9	17.7	51	100/500/1000
3.546.2.4.3.0075.0.0002	2	0.75	7.9	31	84	100/500/1000
3.546.2.4.3.0075.0.0003	3	0.75	9.1	44.2	112	100/500/1000
3.546.2.4.3.0075.0.0004	4	0.75	11	57.5	148	100/500/1000
3.546.2.4.3.0075.0.0005	5	0.75	11.5	70.8	170	100/500/1000
3.546.2.4.3.0075.0.0006	6	0.75	12.2	84	196	100/500/1000
3.546.2.4.3.0075.0.0007	7	0.75	13.2	97.3	225	100/500/1000
3.546.2.4.3.0075.0.0008	8	0.75	13.7	110.6	248	100/500/1000
3.546.2.4.3.0075.0.0009	9	0.75	14.5	123.9	275	100/500/1000
3.546.2.4.3.0075.0.0010	10	0.75	15.1	137.1	299	100/500/1000

Part Number	Pair Count	Conductor Diameter (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.546.2.4.3.0100.0.0001	1	1	6.2	21	57	100/500/1000
3.546.2.4.3.0100.0.0002	2	1	8.3	37.6	95	100/500/1000
3.546.2.4.3.0100.0.0003	3	1	9.6	54.2	127	100/500/1000
3.546.2.4.3.0100.0.0004	4	1	11.7	70.8	168	100/500/1000
3.546.2.4.3.0100.0.0005	5	1	12.2	87.4	194	100/500/1000
3.546.2.4.3.0100.0.0006	6	1	12.9	103.9	225	100/500/1000
3.546.2.4.3.0100.0.0007	7	1	14	120.5	259	100/500/1000
3.546.2.4.3.0100.0.0008	8	1	14.6	137.1	286	100/500/1000
3.546.2.4.3.0100.0.0009	9	1	15.4	153.7	318	100/500/1000
3.546.2.4.3.0100.0.0010	10	1	16.1	170.3	346	100/500/1000

Part Number	Pair Count	Conductor Diameter (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.546.2.4.3.0150.0.0001	1	1.5	7.1	30.3	76	100/500/1000
3.546.2.4.3.0150.0.0002	2	1.5	9.3	56.1	122	100/500/1000
3.546.2.4.3.0150.0.0003	3	1.5	10.7	82	167	100/500/1000
3.546.2.4.3.0150.0.0004	4	1.5	13.1	107.8	221	100/500/1000
3.546.2.4.3.0150.0.0005	5	1.5	13.6	133.6	258	100/500/1000
3.546.2.4.3.0150.0.0006	6	1.5	14.5	159.5	299	100/500/1000
3.546.2.4.3.0150.0.0007	7	1.5	15.8	185.3	345	100/500/1000
3.546.2.4.3.0150.0.0008	8	1.5	16.4	211.2	383	100/500/1000
3.546.2.4.3.0150.0.0009	9	1.5	17.3	237	426	100/500/1000
3.546.2.4.3.0150.0.0010	10	1.5	18.1	262.9	465	100/500/1000

Part Number	Pair Count	Conductor Diameter (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.546.2.4.3.0250.0.0001	1	2.5	8.3	47.5	104	100/500/1000
3.546.2.4.3.0250.0.0002	2	2.5	11	90.6	175	100/500/1000
3.546.2.4.3.0250.0.0003	3	2.5	12.8	133.6	242	100/500/1000
3.546.2.4.3.0250.0.0004	4	2.5	15.6	176.7	318	100/500/1000
3.546.2.4.3.0250.0.0005	5	2.5	16.4	219.8	380	100/500/1000