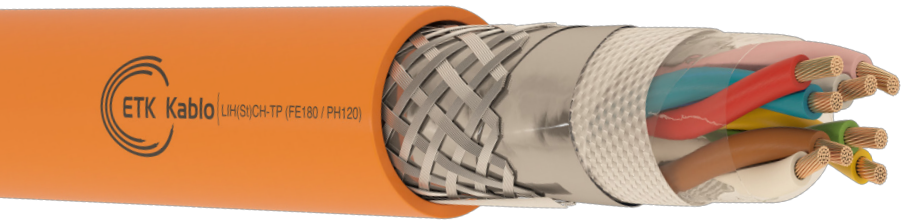
ETK Kablo

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

TSEK

RoHS REACH CE



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.
· 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	: Al/PET, tinned copper braiding
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
15xD 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)CH-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)
3.536.2.4.3.0050.0.0001	1	0.5	5.7	17.1	48	100/500/1000
3.536.2.4.3.0050.0.0002	2	0.5	7.3	28.9	74	100/500/1000
3.536.2.4.3.0050.0.0003	3	0.5	8.3	39.7	95	100/500/1000
3.536.2.4.3.0050.0.0004	4	0.5	10.1	52.2	129	100/500/1000
3.536.2.4.3.0050.0.0005	5	0.5	10.6	61.6	146	100/500/1000
3.536.2.4.3.0050.0.0006	6	0.5	11.2	71.4	167	100/500/1000
3.536.2.4.3.0050.0.0007	7	0.5	12.2	81.6	191	100/500/1000
3.536.2.4.3.0050.0.0008	8	0.5	12.6	91.8	209	100/500/1000
3.536.2.4.3.0050.0.0009	9	0.5	13.3	101.2	231	100/500/1000
3.536.2.4.3.0050.0.0010	10	0.5	13.9	116.7	254	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)
3.536.2.4.3.0075.0.0001	1	0.75	6.2	22.9	58	100/500/1000
3.536.2.4.3.0075.0.0002	2	0.75	8.1	38.8	92	100/500/1000
3.536.2.4.3.0075.0.0003	3	0.75	9.3	57.4	125	100/500/1000
3.536.2.4.3.0075.0.0004	4	0.75	11.2	71.3	162	100/500/1000
3.536.2.4.3.0075.0.0005	5	0.75	11.7	84.8	184	100/500/1000
3.536.2.4.3.0075.0.0006	6	0.75	12.4	99.4	211	100/500/1000
3.536.2.4.3.0075.0.0007	7	0.75	13.4	114.5	242	100/500/1000
3.536.2.4.3.0075.0.0008	8	0.75	14	134.4	271	100/500/1000
3.536.2.4.3.0075.0.0009	9	0.75	14.7	148.2	299	100/500/1000
3.536.2.4.3.0075.0.0010	10	0.75	15.4	164.1	324	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)
3.536.2.4.3.0100.0.0001	1	1	6.5	25.6	63	100/500/1000
3.536.2.4.3.0100.0.0002	2	1	8.5	46.3	103	100/500/1000
3.536.2.4.3.0100.0.0003	3	1	9.8	66.4	139	100/500/1000
3.536.2.4.3.0100.0.0004	4	1	11.9	85.8	183	100/500/1000
3.536.2.4.3.0100.0.0005	5	1	12.4	102.7	209	100/500/1000
3.536.2.4.3.0100.0.0006	6	1	13.1	120.9	241	100/500/1000
3.536.2.4.3.0100.0.0007	7	1	14.3	144.6	282	100/500/1000
3.536.2.4.3.0100.0.0008	8	1	14.8	161.6	309	100/500/1000
3.536.2.4.3.0100.0.0009	9	1	15.6	181	344	100/500/1000
3.536.2.4.3.0100.0.0010	10	1	16.3	198.4	371	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)
3.536.2.4.3.0150.0.0001	1	1.5	7.3	36.3	82	100/500/1000
3.536.2.4.3.0150.0.0002	2	1.5	9.5	66.3	133	100/500/1000
3.536.2.4.3.0150.0.0003	3	1.5	10.9	94.5	179	100/500/1000
3.536.2.4.3.0150.0.0004	4	1.5	13.3	124.9	238	100/500/1000
3.536.2.4.3.0150.0.0005	5	1.5	14	155.9	283	100/500/1000
3.536.2.4.3.0150.0.0006	6	1.5	14.7	183.9	323	100/500/1000
3.536.2.4.3.0150.0.0007	7	1.5	16	213	372	100/500/1000
3.536.2.4.3.0150.0.0008	8	1.5	16.6	239.6	410	100/500/1000
3.536.2.4.3.0150.0.0009	9	1.5	17.5	266.4	455	100/500/1000
3.536.2.4.3.0150.0.0010	10	1.5	18.3	296.1	496	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)
3.536.2.4.3.0250.0.0001	1	2.5	8.4	56.2	111	100/500/1000
3.536.2.4.3.0250.0.0002	2	2.5	11.2	104.5	188	100/500/1000
3.536.2.4.3.0250.0.0003	3	2.5	13	150.7	259	100/500/1000
3.536.2.4.3.0250.0.0004	4	2.5	15.9	204.6	349	100/500/1000