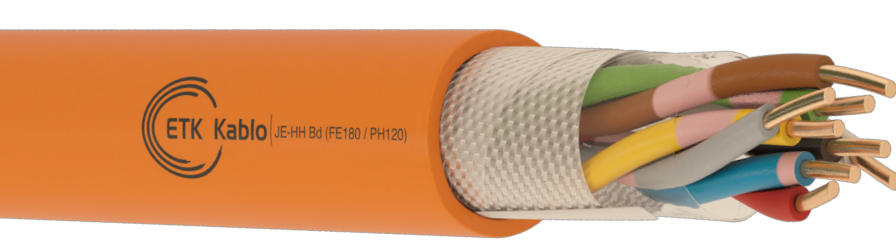


Electronic Control Cables

Fire Resistant Cables

JE-HH (FE180 / PH120)

RoHS REACH 



Application

- 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 : Class 1 electrolytic solid copper (IEC 60228, DIN VDE 0295, EN 60228)
- 2 - Insulation : Cross-linked polymer compound in ceramic form (VDE 0815)
- 3 - Stranding : Insulations are stranded into pairs, four pairs are stranded together into groups, groups are stranded in layers.
- 4 - Wrapping : Polyester tape, glass yarn tape
- 5 - Outer Jacket : UV resistant halogen-free outer jacket. RAL 2008 (Orange)

Technical Characteristics

Conductor Diameter	Conductor Resistance Ω/km (20 °C)	Insulation Resistance $\text{M}\Omega/\text{km}$ (500 V DC)	Mutual Capacitance nF/km (800 Hz)	Operating Voltage V DC	Test Voltage V (DC, 1 minute)
0.60 mm	130	100	100	300	1000
0.80 mm	73.2	100	100	300	1000
1.00 mm	44.6	100	100	300	1000
1.5 mm ²	24.6	100	100	300	1000
2.5 mm ²	15.1	100	100	300	1000

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 0815

JE-HH Bd (FE180 / PH120)

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.651.1.4.3.0060.0.0001	1	0.6	4.3	5.4	22	100/500/1000
3.651.1.4.3.0060.0.0002	2	0.6	4.9	10.7	34	100/500/1000
3.651.1.4.3.0060.0.0003	3	0.6	6.4	16.1	50	100/500/1000
3.651.1.4.3.0060.0.0004	4	0.6	7.6	21.5	63	100/500/1000
3.651.1.4.3.0060.0.0005	5	0.6	8	26.8	75	100/500/1000
3.651.1.4.3.0060.0.0006	6	0.6	9.7	32.2	91	100/500/1000
3.651.1.4.3.0060.0.0008	8	0.6	9.9	42.9	109	100/500/1000
3.651.1.4.3.0060.0.0010	10	0.6	10.3	53.6	129	100/500/1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.651.1.4.3.0080.0.0001	1	0.8	5	9.5	31	100/500/1000
3.651.1.4.3.0080.0.0002	2	0.8	5.9	19	50	100/500/1000
3.651.1.4.3.0080.0.0003	3	0.8	7.6	28.6	72	100/500/1000
3.651.1.4.3.0080.0.0004	4	0.8	9.1	38.1	95	100/500/1000
3.651.1.4.3.0080.0.0005	5	0.8	9.5	47.7	111	100/500/1000
3.651.1.4.3.0080.0.0006	6	0.8	11.5	57.2	134	100/500/1000
3.651.1.4.3.0080.0.0008	8	0.8	12	76.2	166	100/500/1000
3.651.1.4.3.0080.0.0010	10	0.8	12.4	95.3	199	100/500/1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.651.1.4.3.0100.0.0001	1	1	5.7	14.9	42	100/500/1000
3.651.1.4.3.0100.0.0002	2	1	6.6	29.7	67	100/500/1000
3.651.1.4.3.0100.0.0003	3	1	8.6	44.7	98	100/500/1000
3.651.1.4.3.0100.0.0004	4	1	10.4	59.6	129	100/500/1000
3.651.1.4.3.0100.0.0005	5	1	10.8	74.5	151	100/500/1000
3.651.1.4.3.0100.0.0006	6	1	13.4	89.3	187	100/500/1000
3.651.1.4.3.0100.0.0008	8	1	13.8	119.1	230	100/500/1000
3.651.1.4.3.0100.0.0010	10	1	14.3	148.9	276	100/500/1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.651.1.4.3.0150.0.0001	1	1.5	6.6	27.4	61	100/500/1000
3.651.1.4.3.0150.0.0002	2	1.5	7.8	54.8	104	100/500/1000
3.651.1.4.3.0150.0.0003	3	1.5	10.2	82.6	152	100/500/1000
3.651.1.4.3.0150.0.0004	4	1.5	12.3	110.1	200	100/500/1000
3.651.1.4.3.0150.0.0005	5	1.5	12.9	137.7	238	100/500/1000
3.651.1.4.3.0150.0.0006	6	1.5	16.1	165.2	296	100/500/1000
3.651.1.4.3.0150.0.0008	8	1.5	16.7	220.2	376	100/500/1000
3.651.1.4.3.0150.0.0010	10	1.5	17.3	275.3	448	100/500/1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.651.1.4.3.0250.0.0001	1	2.5	7.6	44.9	87	100/500/1000
3.651.1.4.3.0250.0.0002	2	2.5	8.8	89.7	148	100/500/1000
3.651.1.4.3.0250.0.0003	3	2.5	11.7	135.2	218	100/500/1000
3.651.1.4.3.0250.0.0004	4	2.5	14.3	180.3	288	100/500/1000
3.651.1.4.3.0250.0.0005	5	2.5	15.1	225.3	350	100/500/1000
3.651.1.4.3.0250.0.0006	6	2.5	18.7	270.4	428	100/500/1000
3.651.1.4.3.0250.0.0008	8	2.5	19.5	360.5	549	100/500/1000
3.651.1.4.3.0250.0.0010	10	2.5	20.1	450.6	661	100/500/1000