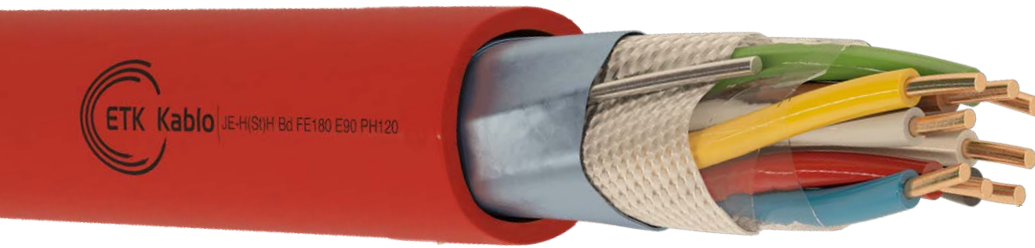


## Electronic Control Cables

## Fire Resistant Cables

# JE-H(S†)H Bd (FE180 / E30-E90 / PH120)



### 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.
- 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 number taped groups, groups are stranded in layers.
- 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 3000 (Red)

### Technical Characteristics

Conductor Diameter	Loop Resistance $\Omega/\text{km}$ (20 °C)	Insulation Resistance $\text{M}\Omega/\text{km}$ (500 V DC)	Mutual Capacitance $\text{nF}/\text{km}$ (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 <sup>2</sup>	24.6	100	100	300	1000
2.5 mm <sup>2</sup>	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)	Cable System Circuit Integrity Test (E30 / E60 / E90)		
IEC 60331-23	EN 50200, VDE 0482-200, BS EN 50200	DIN 4102-12 E30 / E90		

#### Notes

Reference Standard: DIN VDE 0815

## JE-H(St)H Bd (FE180 / E30-E90 / PH120)

Part Number	Pair Count	Conductor Diameter	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.650.1.4.3.1080.0.0001	1	0.80 mm	5.5	14.8	40	100/500/1000
3.650.1.4.3.1080.0.0002	2	0.80 mm	6.2	24.8	58	100/500/1000
3.650.1.4.3.1080.0.0004	4	0.80 mm	9	44.6	105	100/500/1000
3.650.1.4.3.1080.0.0006	6	0.80 mm	11.9	64.5	163	100/500/1000
3.650.1.4.3.1080.0.0008	8	0.80 mm	13.2	84.3	205	100/500/1000
3.650.1.4.3.1080.0.0010	10	0.80 mm	15.5	104.2	257	100/500/1000
3.650.1.4.3.1080.0.0012	12	0.80 mm	18.3	124	316	100/500/1000
3.650.1.4.3.1080.0.0016	16	0.80 mm	20.3	163.7	403	100/500/1000
3.650.1.4.3.1080.0.0020	20	0.80 mm	22.6	203.4	493	100/500/1000
3.650.1.4.3.1080.0.0024	24	0.80 mm	24.4	243.1	576	100/500/1000
3.650.1.4.3.1100.0.0001	1	1.00 mm	6.1	21.8	51	100/500/1000
3.650.1.4.3.1100.0.0002	2	1.00 mm	7	38.7	79	100/500/1000
3.650.1.4.3.1100.0.0004	4	1.00 mm	10.3	72.5	147	100/500/1000
3.650.1.4.3.1100.0.0006	6	1.00 mm	13.5	106.2	226	100/500/1000
3.650.1.4.3.1100.0.0008	8	1.00 mm	15.2	140	292	100/500/1000
3.650.1.4.3.1100.0.0010	10	1.00 mm	17.9	173.8	365	100/500/1000
3.650.1.4.3.1100.0.0012	12	1.00 mm	21.2	207.6	452	100/500/1000
3.650.1.4.3.1100.0.0016	16	1.00 mm	23.4	275.1	571	100/500/1000
3.650.1.4.3.1100.0.0020	20	1.00 mm	26.1	342.7	707	100/500/1000
3.650.1.4.3.1100.0.0024	24	1.00 mm	28.2	410.2	829	100/500/1000
3.650.1.4.3.1150.0.0001	1	1.50 mm <sup>2</sup>	7	32.4	69	100/500/1000
3.650.1.4.3.1150.0.0002	2	1.50 mm <sup>2</sup>	8	59.9	111	100/500/1000
3.650.1.4.3.1150.0.0004	4	1.50 mm <sup>2</sup>	12.1	114.9	213	100/500/1000
3.650.1.4.3.1150.0.0006	6	1.50 mm <sup>2</sup>	15.8	169.9	324	100/500/1000
3.650.1.4.3.1150.0.0008	8	1.50 mm <sup>2</sup>	17.7	225	420	100/500/1000
3.650.1.4.3.1150.0.0010	10	1.50 mm <sup>2</sup>	21	280	531	100/500/1000
3.650.1.4.3.1150.0.0012	12	1.50 mm <sup>2</sup>	24.8	335	648	100/500/1000
3.650.1.4.3.1150.0.0016	16	1.50 mm <sup>2</sup>	27.6	445	838	100/500/1000
3.650.1.4.3.1150.0.0020	20	1.50 mm <sup>2</sup>	30.6	555	1028	100/500/1000
3.650.1.4.3.1150.0.0024	24	1.50 mm <sup>2</sup>	33.3	665	1217	100/500/1000
3.650.1.4.3.1250.0.0001	1	2.50 mm <sup>2</sup>	7.9	51.3	95	100/500/1000
3.650.1.4.3.1250.0.0002	2	2.50 mm <sup>2</sup>	9.1	97.7	158	100/500/1000
3.650.1.4.3.1250.0.0004	4	2.50 mm <sup>2</sup>	13.8	190.4	306	100/500/1000
3.650.1.4.3.1250.0.0006	6	2.50 mm <sup>2</sup>	18.1	283.2	470	100/500/1000
3.650.1.4.3.1250.0.0008	8	2.50 mm <sup>2</sup>	20.3	375.9	610	100/500/1000
3.650.1.4.3.1250.0.0010	10	2.50 mm <sup>2</sup>	24	468.7	769	100/500/1000
3.650.1.4.3.1250.0.0012	12	2.50 mm <sup>2</sup>	28.5	561.4	943	100/500/1000
3.650.1.4.3.1250.0.0016	16	2.50 mm <sup>2</sup>	31.7	746.9	1223	100/500/1000
3.650.1.4.3.1250.0.0020	20	2.50 mm <sup>2</sup>	35.2	932.4	1504	100/500/1000
3.650.1.4.3.1250.0.0024	24	2.50 mm <sup>2</sup>	38.3	1117.9	1792	100/500/1000