

Electronic Control Cables Fire Resistant Cables

JE-H(Sf)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 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 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)		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

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Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.650.1.4.3.1080.0.0001	1	0.8	5.4	14.3	38	100/500/1000
3.650.1.4.3.1080.0.0002	2	0.8	6.2	23.8	54	100/500/1000
3.650.1.4.3.1080.0.0003	3	0.8	7.9	33.4	80	100/500/1000
3.650.1.4.3.1080.0.0004	4	0.8	9.5	42.9	103	100/500/1000
3.650.1.4.3.1080.0.0005	5	0.8	9.8	52.4	119	100/500/1000
3.650.1.4.3.1080.0.0006	6	0.8	11.9	62	144	100/500/1000
3.650.1.4.3.1080.0.0008	8	0.8	12.3	81	178	100/500/1000
3.650.1.4.3.1080.0.0010	10	0.8	12.8	100.1	208	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)
3.650.1.4.3.0100.0.0001	1	1	5.7	19.6	48	100/500/1000
3.650.1.4.3.0100.0.0002	2	1	7	34.4	71	100/500/1000
3.650.1.4.3.0100.0.0003	3	1	9	49.5	105	100/500/1000
3.650.1.4.3.0100.0.0004	4	1	10.8	64.3	137	100/500/1000
3.650.1.4.3.0100.0.0005	5	1	11.2	79.2	160	100/500/1000
3.650.1.4.3.0100.0.0006	6	1	13.8	94.1	197	100/500/1000
3.650.1.4.3.0100.0.0008	8	1	14.2	123.9	240	100/500/1000
3.650.1.4.3.0100.0.0010	10	1	14.7	153.6	286	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)
3.650.1.4.3.0150.0.0001	1	1.5	7	32.2	65	100/500/1000
3.650.1.4.3.0150.0.0002	2	1.5	8.1	59.6	107	100/500/1000
3.650.1.4.3.0150.0.0003	3	1.5	10.5	87.4	160	100/500/1000
3.650.1.4.3.0150.0.0004	4	1.5	12.7	114.9	209	100/500/1000
3.650.1.4.3.0150.0.0005	5	1.5	13.3	142.4	247	100/500/1000
3.650.1.4.3.0150.0.0006	6	1.5	16.4	170	306	100/500/1000
3.650.1.4.3.0150.0.0008	8	1.5	17.1	225	387	100/500/1000
3.650.1.4.3.0150.0.0010	10	1.5	17.6	280	459	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)
3.650.1.4.3.0250.0.0001	1	2.5	8	49.7	95	100/500/1000
3.650.1.4.3.0250.0.0002	2	2.5	9.2	94.5	156	100/500/1000
3.650.1.4.3.0250.0.0003	3	2.5	12.1	140	227	100/500/1000
3.650.1.4.3.0250.0.0004	4	2.5	14.7	185	298	100/500/1000
3.650.1.4.3.0250.0.0005	5	2.5	15.4	230.1	360	100/500/1000
3.650.1.4.3.0250.0.0006	6	2.5	19.1	275.1	439	100/500/1000
3.650.1.4.3.0250.0.0008	8	2.5	19.9	365.2	560	100/500/1000
3.650.1.4.3.0250.0.0010	10	2.5	20.5	455.3	672	100/500/1000