



Application	Cable Construction
<ul style="list-style-type: none"> 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. 	<p>1 - Conductor : Class 1 electrolytic solid copper (IEC 60228, DIN VDE 0295, EN 60228)</p> <p>2 - Insulation : Cross-linked polymer compound in ceramic form (VDE 0815)</p> <p>3 - Stranding : Insulations are stranded into pairs, four pairs are stranded together into number taped groups, groups are stranded in layers.</p> <p>4 - Wrapping : Polyester tape, glass yarn tape</p> <p>5 - Screen : Tinned copper earthing wire, Al/PET tape</p> <p>6 - Outer Jacket : UV resistant halogen-free outer jacket. RAL 3000 (Red)</p>

Technical Characteristics

Conductor Diameter	Loop 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

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

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.650.14.3.1080.0.0002	2	0.8	6.2	23.8	54	100/500/1000
3.650.4.4.3.0080.0.0004	4	0.8	10.0	43.9	113	100/500/1000
3.650.14.3.1080.0.0006	6*	0.8	11.9	62	144	100/500/1000
3.650.4.4.3.0080.0.0008	8	0.8	14.2	82.8	216	100/500/1000
3.650.14.3.1080.0.0010	10*	0.8	12.8	100.1	208	100/500/1000
3.650.4.4.3.0080.0.0012	12	0.8	19.4	121.8	323	100/500/1000
3.650.4.4.3.0080.0.0016	16	0.8	21.5	160.7	409	100/500/1000
3.650.4.4.3.0080.0.0020	20	0.8	23.8	199.7	493	100/500/1000

* Insulations are stranded into pairs and all pairs are stranded together.