

## EPR/PVC Copper Tape Shield



### Product Description

EPR insulation  
PVC jacket  
Shielded  
133% insulation level

### Applications

For use in power circuits up to 15 kV when installed in open air, conduit, duct, or direct buried, for wet and dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

### Specifications

- CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B-3, (compact stranding per ASTM B-496 is available). Strand shield is an extruded semiconducting, thermosetting compound
- INSULATION: Ethylene Propylene Rubber (EPR), physical and electrical properties are in accordance with ICEA S-93-639 (NEMA WC74)
- INSULATION SHIELD: Extruded semiconducting thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper tape
- OVERALL JACKET: Sunlight-resistant black Polyvinyl Chloride (PVC)
- STANDARDS: Listed Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639. Sizes 1/0 and larger marked "for CT use" and pass UL 1685 70,000 Btu/hr flame test
- AMPACITY: Based on three single conductor cables in isolated conduit in air per 2008 NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
- TEMPERATURE: 105°C
- VOLTAGE: 15 kV

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Cables with compact stranding have slightly smaller overall diameters. Diameters and weights may vary among manufacturers.

Part No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nom. Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nom. O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3FE-0201	2	7	0.220	0.78	0.080	1.040	685	150
3FE-0101	1	19	0.220	0.82	0.080	1.080	760	170
3FE-1011	1/0	19	0.220	0.86	0.080	1.130	870	195
3FE-2021	2/0	19	0.220	0.91	0.080	1.160	995	225
3FE-3031	3/0	19	0.220	0.96	0.080	1.240	1,130	260
3FE-4041	4/0	19	0.220	1.02	0.080	1.290	1,275	295
3FE-2501	250	37	0.220	1.07	0.080	1.340	1,465	330
3FE-3501	350	37	0.220	1.18	0.080	1.440	1,840	395
3FE-5001	500	37	0.220	1.30	0.080	1.570	2,395	480
3FE-7501	750	61	0.220	1.49	0.110	1.820	3,415	585
3FE-10001	1000	61	0.220	1.64	0.110	2.030	4,435	675

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