

EPR/PVC Copper Tape Shield



Product Description

EPR insulation
PVC jacket
Shielded
100% insulation level

Applications

For use in power circuits up to 35 kV when installed in open air, conduit, duct or direct burial for wet or 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 copper per ASTM B-3 and B-8, strand shield is an extruded semiconducting thermoset
- INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
- INSULATION SHIELD: Extruded semiconducting thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper shielding tape
- OVERALL JACKET: Sunlight-resistant, black Polyvinyl Chloride (PVC)
- STANDARDS: Listed as Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639. Sizes 1/0 and larger pass UL 1685 70,000 Btu/hr flame test
- AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
- TEMPERATURE: 105°C
- VOLTAGE: 35 kV

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0.420 in. insulation thickness (133% insulation level) available upon request. 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
3DX-1011	1/0	19	0.345	1.12	0.080	1.390	1,160	195
3DX-2021	2/0	19	0.345	1.16	0.080	1.430	1,190	225
3DX-3031	3/0	19	0.345	1.21	0.080	1.480	1,445	260
3DX-4041	4/0	19	0.345	1.27	0.080	1.540	1,635	295
3DX-2501	250	37	0.345	1.33	0.080	1.600	1,805	330
3DX-3501	350	37	0.345	1.43	0.080	1.700	2,205	395
3DX-5001	500	37	0.345	1.56	0.110	1.910	2,920	480
3DX-7501	750	61	0.345	1.75	0.110	2.100	3,895	585
3DX-10001	1000	61	0.345	1.90	0.110	2.250	4,840	675

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