

## Product Data Sheet

### EPR/CPE Copper Tape Shield

#### Product Description

- EPR insulation
- PVC jacket
- Shielded
- 133% insulation level

#### Applications

- For use in power circuits up to 8 kV when installed in open air, conduit, duct or buried directly in the earth, for wet and dry locations.
- Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.



#### Specification

- CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B-3 and B-8, (compact stranding per ASTM B-496 is available). Strand shield is an extruded semi-conducting thermoset
- INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
- INSULATION SHIELD: Extruded semi-conducting thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper 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 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 NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
- TEMPERATURE: 105°C
- VOLTAGE: 5 kV 133% and 8 kV 100%

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### 5 kV Single Conductor - Shielded

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
3DA-0201	2	7	0.115	0.57	0.060	0.780	470	130
3DA-1011	1/0	19	0.115	0.65	0.080	0.910	670	180
3DA-2021	2/0	19	0.115	0.69	0.080	0.960	780	205
3DA-4041	4/0	19	0.115	0.80	0.080	1.050	1,085	280
3DA-2501	250	37	0.115	0.86	0.080	1.110	1,225	315
3DA-3501	350	37	0.115	0.96	0.080	1.210	1,500	385
3DA-5001	500	37	0.115	1.09	0.080	1.360	2,130	475
3DA-7501	750	61	0.115	1.28	0.080	1.550	3,025	600
3DA-10001	1000	61	0.115	1.43	0.110	1.750	3,980	690