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## TowerGuard 2000™ EPR Aluminum Conductor Type RHH or RHW-2, VW-1 2kV Power Cable

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### Applications

TowerGuard 2000 volt power cables are recommended for use in all low voltage circuits where continuity of service is the prime consideration. They can be installed in wet or dry locations, indoors or outdoors in conduit, underground ducts, approved raceways. These cables may also be installed in cable tray (size 1/0 AWG and larger per NEC 392.3).

### Cable Construction

#### Conductor

Series 8000 alloy conductor.

#### Insulation

Ethylene Propylene rubber (EPR). Insulation is heat, oil and moisture resistant and rated for 90°C wet and 90°C dry continuous operating conditions. An opaque polyester tape or other suitable separator is used over the conductor.

#### Jacket

Chlorosulfonated polyethylene (CSPE). The jacket is bonded to the EPR insulation.

#### Identification

The jacket surface shall be printed or indented with: TOWERGUARD 2000 (SEQUENTIAL FOOTAGE EVERY TWO FEET).

### Specifications

#### Conductors

Series 8000 alloy conductor per ASTM B800 and B801.

#### Composite Insulation

Meets or exceeds all requirements of ICEA S 95 658, NEMA WC/70, NEMA WC 8 and UL Standard 44.

Listed by Underwriters Laboratories, Inc. as Type RHH or RHW 2, VW 1. Sizes 1/0 AWG and larger are also marked "Sunlight resistant, for use in cable tray."

### Product Features

- Extreme heat resistance
- 90°C continuous rating, wet or dry
- 110°C hot spot rating
- 130°C emergency overload rating
- 250°C short circuit rating
- Exceptional resistance to deformation at high temperature.
- Stable electrical properties
- Low SIC and power factor
- Low moisture absorption
- Mechanically rugged
- Resistant to weather, most oils, acids and alkalies.
- Smaller diameter than RHW jacketed cables.
- More flexible, easier to install, terminate or splice than XLPE insulation.
- UL Listed

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**TowerGuard 2000™ EPR Aluminum Conductor**  
**Type RHH or RHW-2, VW-1**  
**2kV Power Cable**

Conductor Size kcmil	Stranding	Thickness EPR (mil)	Thickness CSPE (mil)	O.D. (in)	Net Weight MFT (lb)	Ship Weight MFT (lb)	*Amps 90°C (Free Air)	**Amps 90°C (Duct)
4/0	37	65	45	0.749	348	377	315	226
500	61	75	65	1.093	756	798	545	372
700	91	90	65	1.275	1028	1097	675	478
1000	91	90	65	1.458	1378	1452	845	546

\*Ampacities based on single-conductor in free air, in accordance with NEC Table 310-17.

\*\*Ampacities based on three single conductors per duct.

**Ampacity Comparisons**

Cable Type	Conductor Size	*Amps 90°C (Free Air)	**Amps 90°C (Duct)	**Amps 90°C (Duct)	*Amps 90°C (Free Air)	Conductor Size	Cable Type
Copper DLO	2/0 AWG	300	202	226	315	4/0 AWG	TowerGuard
Copper DLO	313.3 MCM	522	364	372	545	500 MCM	TowerGuard
Copper DLO	444.4 MCM	652	450	478	675	700 MCM	TowerGuard
Copper DLO	777.7 MCM	910	608	546	845	1000 MCM	TowerGuard

\*Ampacities based on single-conductor in free air, in accordance with NEC Table 310-17.

\*\*Ampacities based on three single conductors per duct.



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