

TowerGuard CCA™ Power Cable

2000V (UL) RHH OR RHW-2 Copper Clad Aluminum Conductor/90°C Wet or Dry

For Cable Tray Use — Sunlight Resistant — For Direct Burial
Patent Pending



Applications

This cable is intended for fixed installation in wind turbine towers. Good resistance to temperatures, oils, ozone and fire.

Construction

Nominal voltage: RHH/RHW-2 2000V UL

Conductor: The conductor shall be a bunched or rope-lay-stranded wire composed of 15% Copper Clad Aluminum (CCA) wires specified in ASTM B-566 and stranded in accordance with ASTM B-172 as applicable.

Separator: A suitable tape separator between the conductor and insulation.

Insulation: Ethylene-propylene rubber (EPR) type EP, meeting UL and ICEA requirements for 90°C.

Jacket: A heavy duty, thermosetting CPE in accordance with ICEA S-95-658 NEMA WC70

Jacket Color: Black

Print Legend: TOWERGUARD CCA™ (SIZE)
Cu-Clad AL Type RHH or RHW-2 2000V Sun Res
PATENT PENDING (SEQUENTIAL FOOTAGE
MARKER)

Specifications

- ICEA S-95-658 / NEMA WC70
- UL Standard 44
- ASTM B 566
- ASTM B 172

Product Features

- Flexible cable design — TowerGuard CCA can bend to a radius of 6 times the O.D. without impairing the insulation.
- 90°C (dry) 90°C (wet)
- Ozone, sunlight, oil, grease, weather, water, chemical and abrasion resistant jacket
- Surface printed for easy identification
- 40% lighter weight and easier to install than copper cables with equal ampacity
- 35% less expensive than copper cables with equal ampacity
- No scrap value (theft deterrent)
- Sequential footage markers
- Patent pending

Item #	Conductor Size AWG/kcmil	Stranding	Nominal Conductor Diameter (in)	Nominal Insulation Thickness (mil)	Nominal Jacket Thickness (in)	Maximum Cable Diameter (mil)	Copper Weight /MFT (lb)	Aluminum Weight /MFT (lb)	Net Cable Weight /MFT (lb)	Ampacity* 90°C Free Air	Ampacity** 90°C Duct
CCA4/0-01TWRGRD	4/0	329	0.540	65	45	0.760	96	165	458	356	235
CCA250-01TWRGRD	250	399	0.602	75	65	0.882	116	200	590	400	260
CCA350-01TWRGRD	350	551	0.707	75	65	0.987	161	277	756	500	315
CCA500-01TWRGRD	500	779	0.841	75	65	1.121	227	391	979	636	390
CCA600-01TWRGRD	600	925	0.919	75	65	1.199	270	464	1301	708	435
CCA750-01TWRGRD	750	1184	1.040	90	65	1.350	345	595	1462	780	480
CCA800-01TWRGRD	800	1258	1.072	90	65	1.382	367	632	1521	832	521
CCA900-01TWRGRD	900	1406	1.133	90	65	1.443	410	706	1733	954	558
CCA1000-01TWRGRD	1000	1554	1.191	90	65	1.501	453	780	1850	1060	621

*Ampacity is calculated based on a single conductor in free air with a 90°C conductor temperature and 30°C ambient, per 2005 NEC, Table 310-17

**Ampacity is calculated based on 3 conductors in a duct with a 90°C conductor temperature and 30°C ambient, per 2005 NEC, Table 310-17

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