Corporate Headquarters
2980 NE 207th Street | Suite PH
Miami, FL 33180
Toll-Free: 800.342.7215 (US and Canada only)
Phone: 954.455.3050
Fax: 954.455.9886
Email: sales@buyawg.com

TOWERGUARD CCA® 2KV (UL) RHH OR RHW-2 COPPER CLAD ALUMINUM CONDUCTOR/90°C WET OR DRY FOR CABLE TRAY USE - SUNLIGHT RESISTANT - FOR DIRECT BURIAL U.S. PATENT NO. 8,618,688

Applications

This cable is intended for fixed installation in wind turbine towers. Good resistance to temperatures, oils, ozone and fire. This cable is intended for use in solar power generation applications to connect the inverter to transformer where high flexibility is required, commonly applied to prefabricated inverter and transformer skids. Additionally, this cable is appropriate for tight battery applications, as well as superior alternatives to battery cable. TOWERGUARD CCA® can also be used for secondary voltage resistance welding leads and in power supply applications not exceeding 2000V volts.

Construction

Nominal voltage: RHH or RHW-2 2000V UL
Conductor: The conductor shall be a flexible Copperclad Aluminum (CCA), an electrical conductor that has an outer sleeve of copper metallurgically bonded to a solid aluminum core. The combination of these two metals makes it uniquely suited to many electrical applications where weights to electrical conductivity issues are important. This bimetallic wire is much lighter than copper and only slightly heavier than bare aluminum. The density of CCA is about 35% lighter than copper. CCA conducts like copper for AC frequencies. This product meets or exceeds the minimum requirements set forth in ASTM B 566 04.
Separator: A suitable tape separator between the conductor and insulation.
Insulation: Ethylene-propylene rubber (EPR) type EP, meeting UL and ICEA requirements for 90ºC.
Jacket: A heavy duty, thermosetting CPE in accordance with ICEA S-95-658 NEMA WC70 or optional Low Smoke Zero Halogen jacket LSZH.
Jacket Color: Black
Print Legend: TOWERGUARD CCA® (SIZE AWG OR KCMIL) CU CLAD AL UL 217923 RHH or RHW-2 2000V SUN RES OIL RES U.S. Patent No. 8,618,688 (SEQUENTIAL FOOTAGE MARKER)

Specifications

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

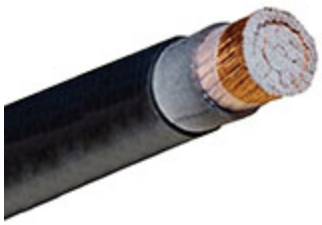
Product Features

35% less expensive than copper cables with equal ampacity
Flexible cable design - **TOWERGUARD CCA®** can bend to a radius of 6 times the O.D. without impairing the insulation.
90 ºC (dry) 90 ºC (wet)
Ozone, sunlight, oil, grease, weather, water, chemical and abrasion resistant jacket
Surface printed for easy identification
35% lighter weight and easier to install than copper cables with equal ampacity
No scrap value (theft deterrent)
Sequential footage markers
U.S. Patent No. 8,618,688

Terminals and Splices
Testing has been completed using TOWERGUARD CCA® with BURNDY® aluminum HYLUG™ terminals and HYLINK™ splices. Both are UL Listed for use on copper clad aluminum cable.
Click HERE to view a chart of cable sizes and corresponding Burndy part numbers in PDF format.

*Ampacity is calculated based on ambient air temperature of 30ºC, per 2008 NEC, Table 310-17
**Ampacity is calculated based on ambient air temperature of 30ºC, not more than three current-carrying conductors in raceway, cable, or earth, per 2008 NEC, Table 310-16

† Actual shipping weight may vary.



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Item #	Conductor Cross-Sectional Area AWG/kcmil	Conductor Nominal No. of wires	Conductor Overall Diameter Approximate (inches)	Average Insulation Thickness (mils)	Average Jacket Thickness (mils)	Nominal Cable Diameter	Ampacity* 90 ºC Free Air	Ampacity** 90 ºC Duct	Corresponding Size of DLO(CU) AWG/kcmil	Net Cable Weight† lbs/MFT
CCA1-01TWRGRD	1	133	0.37	65	45	0.59	175	115	4	211
CCA1/0-01TWRGRD	1/0	168	0.42	65	45	0.64	205	135	2	250
CCA2/0-01TWRGRD	2/0	210	0.47	65	45	0.69	235	150	1	295

Item #	Conductor Cross-Sectional Area AWG/kcmil	Conductor Nominal No. of wires	Conductor Overall Diameter Approximate (inches)	Average Insulation Thickness (mils)	Average Jacket Thickness (mils)	Nominal Cable Diameter	Ampacity* 90 °C Free Air	Ampacity** 90 °C Duct	Corresponding Size of DLO(CU) AWG/kcmil	Net Cable Weight† lbs/MFT
CCA3/0-01TWRGRD	3/0	266	0.52	65	45	0.75	275	175	1/0	352
CCA4/0-01TWRGRD	4/0	329	0.58	65	45	0.80	315	205	2/0	417
CCA250-01TWRGRD	250	399	0.65	75	65	0.93	355	230	3/0	546
CCA350-01TWRGRD	350	551	0.76	75	65	1.04	455	280	4/0	704
CCA500-01TWRGRD	500	779	0.91	75	65	1.19	545	350	313	934
CCA600-01TWRGRD	600	925	0.99	90	65	1.27	615	385	373	1124
CCA750-01TWRGRD	750	1184	1.12	90	65	1.43	700	435	444	1381
CCA800-01TWRGRD	800	1258	1.16	90	65	1.47	725	450	535	1454
CCA900-01TWRGRD	900	1406	1.22	90	65	1.54	785	480	535	1599
CCA1000-01TWRGRD	1000	1554	1.29	90	65	1.60	845	500	646	1743
CCA1250-01TWRGRD	1250	1924	1.43	115	95	1.85	960	545	777	2285
CCA1500-01TWRGRD	1500	2379	1.57	115	95	2.00	1075	585	929	2730