AL 2000V EPDM Insulation Thermoset CPE Jacket. RHH/RHW-2/RW90 UL & CSA MSHA Approved

Class B Compact Aluminum conductor. Composite wall EPDM/CPE insulation. UL Listed as 2kV Type RHH/RHW-2 Rated 90°C Dry and Wet, 1/0 & larger rated FT4 and For CT Use (Cable Tray). CSA Listed as 2kV Type RW90, 1/0 & larger rated FT4 and TC-ER. For use in Cable Trays.



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** 8000 Series ACM Aluminum Class B stranded conductor.
2. **Binder Tape:** Mylar Tape
3. **Insulation:** 2 Layer Ethylene Propylene Diene Monomer/Chlorinated Polyethylene (EPR/CPE)

APPLICATIONS AND FEATURES:

2kV Aluminum RHH/RHW-2 and RW90 is electrical power cable approved for use per the NEC® and Canadian CE Code as power cable in wet or dry locations, indoors or out, with composite rubber insulation providing flexibility, toughness, and oil resistance making the cable particularly suited for downtower wind turbine applications. Rated for use at temperatures down to -40°C to 90ºC.

SPECIFICATIONS:

- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- UL 44 Thermoset-Insulated Wires and Cables
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test (1/0 and Larger)
- MSHA Approved
- CSA Standard C22.2 No. 38 File Listing LL90458

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE XXXX KCMIL (XXX{mm2}) AL COMPACT CONDUCTOR E30117 {UL} TYPE RHH/RHW-2 90°C DRY 90°C WET 2KV -40°C PRI PRII SR FOR CT USE FT4 --- CSA LL90458 RW90 90°C DRY 90°C WET TC-ER 2KV -40°C PRI PRII FT1 FT4 SR --- P-07-KA100013-MSHA

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand	Insul. Thickness	Insulation Color	Overall Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C†
	AWG/ Kcmil		No.	mil		mil	inch	lb/ 1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
644209	1000	1	61	90	BK	65	1.376	1289	6.9	6000	0.017	0.023	0.037	500

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
* Strand count meets minimum number per ASTM
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Cond. Number	Strand	Insul. Thickness	Insulation Color	Jacket Thickness[1]	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C
	AWG/ Kcmil		No.	mm		mm	mm	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp
644209	1000	1	61	2.29	BK	1.65	34.95	1918	175.26	26700	0.06	0.08	0.1214	500

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
* Strand count meets minimum number per ASTM
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

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