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	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
TBA	1/0	19	65	BK	45	0.556	145	2.2	633	0.167	0.208	0.044	135
TBA	2/0	19	65	BK	45	0.596	176	2.4	798	0.133	0.166	0.043	150
TBA	3/0	19	65	BK	45	0.643	214	2.6	1006	0.105	0.131	0.042	175
TBA	4/0	19	65	BK	45	0.695	261	2.8	1269	0.084	0.105	0.041	205
TBA	250	35	75	BK	65	0.8	314	3.2	1500	0.07	0.087	0.041	230
TBA	350	35	75	BK	65	0.896	421	3.6	2100	0.051	0.064	0.04	280
TBA	400	35	75	BK	65	0.939	474	3.8	2400	0.044	0.055	0.04	305
673091	500	34	75	BK	65	1.022	699	5.1	3000	0.036	0.045	0.039	350
644208	600	37	90	BK	65	1.129	843	5.6	3600	0.03	0.038	0.039	385
643661	700	58	90	BK	65	1.173	931	5.9	4200	0.026	0.034	0.038	425
167038	750	53	90	BK	65	1.246	1013	6.2	4500	0.023	0.03	0.038	435
644209	1000	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	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
TBA	1/0	19	1.65	BK	1.14	14.12	216	55.88	2817	0.55	0.68	0.1444	135
TBA	2/0	19	1.65	BK	1.14	15.14	262	60.96	3551	0.44	0.54	0.1411	150
TBA	3/0	19	1.65	BK	1.14	16.33	318	66.04	4477	0.34	0.43	0.1378	175
TBA	4/0	19	1.65	BK	1.14	17.65	388	71.12	5647	0.28	0.34	0.1345	205
TBA	250	35	1.91	BK	1.65	20.32	467	81.28	6675	0.23	0.29	0.1345	230
TBA	350	35	1.91	BK	1.65	22.76	627	91.44	9345	0.17	0.21	0.1312	280
TBA	400	35	1.91	BK	1.65	23.85	705	96.52	10680	0.14	0.18	0.1312	305
673091	500	34	1.91	BK	1.65	25.96	1040	129.54	13350	0.12	0.15	0.1280	350
644208	600	37	2.29	BK	1.65	28.68	1255	142.24	16020	0.10	0.12	0.1280	385
643661	700	58	2.29	BK	1.65	29.79	1385	149.86	18690	0.09	0.11	0.1247	425
167038	750	53	2.29	BK	1.65	31.65	1508	157.48	20025	0.08	0.10	0.1247	435
644209	1000	61	2.29	BK	1.65	34.95	1918	175.26	26700	0.06	0.08	0.1214	500

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