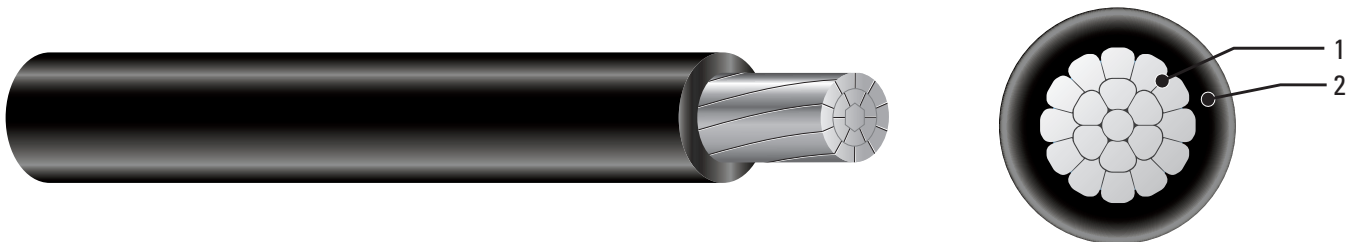


## RWU90 ALUMINUM

Aluminum Conductors, XLPE Insulation, 1000V / -40°C MIN, 90°C MAX, Sunlight Resistant - Black Only



### CONSTRUCTION:

8000 Series ACM Aluminum Class B stranded conductor with extra thickness on the moisture resistant, low temperature, cross linked polyethylene (XLPE) insulation. Rated at 1000 volts. Black conductors are SR rated for sunlight resistance.

1. Aluminum Conductor
2. XLPE Insulation

### APPLICATIONS AND FEATURES:

Southwire's Aluminum RWU90 is designed for direct earth burial (with protection as required by the Canadian Electrical Code Part I). It can also be used for open wiring, used in raceways for service entrance above or below ground. Optional Tray Cable (TC) rating for 350 kcmil or larger\*. Sequential marking on sizes 1/0 and larger.

The minimum recommended installation temperature is -40°C (with suitable handling procedures). Maximum conductor temperature is 90°C.

### CONDUCTOR COLOURS:



- Standard colours are available in black, white, red, blue and green. Optional: Moisture blocked, compact stranded TRIPLE E AA-8000 (8176-H24) series aluminum alloy.

### SPECIFICATIONS:

Southwire's RWU90 cables meet or exceed the following requirements:

- CSA VW-1
- CSA Standard C22.2 No. 38 File Listing LL90458
- CSA - Rated SR for Sunlight Resistance in black only
- Optional: CSA FT1 flame test rating
- Optional: CSA FT4 flame test rating and TC rating for 350 kcmil and larger\*

### SAMPLE PRINT LEGEND

SOUTHWIRE #P# CSA LL90458 AWG 1/0 (53.508mm<sup>2</sup>) 8000 COMPACT AL --- TRIPLE E ALLOY AA8176 RWU90 XLPE 1000 VOLTS SR (-40C) (black)



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## SPECIFICATIONS

Conductor		Insulation Thickness		Approximate Diameter		Approximate Weight		Allowable Ampacity (Amps) 30°C Ambient						Allowable Ampacities (triplexed) Direct Buried (20°C Ambient)†
								Free Air (Optional Tray Cable)*			Conduit **			
Size AWG or kcmil	# of Strands	inches	mm	inches	mm	lb /1000ft	kg /km	60°C	75°C	90°C	60°C	75°C	90°C	
6	7	0.080	2.03	0.33	8.4	51	75	-	-	-	40	50	55	-
4	7	0.080	2.03	0.38	9.6	70	104	-	-	-	55	65	75	-
3	7	0.080	2.03	0.40	10.2	85	126	-	-	-	65	75	85	-
2	7	0.080	2.03	0.43	10.9	100	149	-	-	-	75	90	100	-
1	7	0.095	2.41	0.49	12.4	127	189	-	-	-	85	100	111	-
1/0	18	0.095	2.41	0.53	13.5	153	228	-	-	-	100	120	135	203
2/0	18	0.095	2.41	0.57	14.5	184	274	-	-	-	115	135	150	230
3/0	18	0.095	2.41	0.62	15.7	222	330	-	-	-	130	155	175	261
4/0	18	0.095	2.41	0.66	16.9	271	403	-	-	-	150	180	205	298
250	35	0.110	2.79	0.77	19.6	312	464	-	-	-	170	205	230	324
300	35	0.110	2.79	0.79	20.1	366	545	-	-	-	195	230	260	359
350	35	0.110	2.79	0.84	21.3	417	621	330	395	445	210	250	280	390
400	35	0.110	2.79	0.89	22.6	495	737	355	425	480	225	270	305	419
500	35	0.110	2.79	0.96	24.4	594	884	405	485	545	260	310	350	473
600	58	0.125	3.17	1.06	26.9	701	1043	455	545	615	285	340	385	522
750	58	0.125	3.17	1.16	29.5	836	1244	520	620	700	320	385	435	586
1000	58	0.125	3.17	1.32	33.5	1142	1699	630	750	845	375	445	500	677

All Ampacities derived from the 2015 Canadian Electrical Code Part I

Note: All sizes are non-stock items. Please consult your Southwire Sales Representative.

\* Derived from Table 3 of the CE Code for single aluminum conductors in free air. Based on an ambient temperature of 30°C and appropriate spacing of conductors in open ventilated cable tray.

\*\* Derived from Table 4 of the CE Code for not more than 3 aluminum conductors in conduit. Based on an ambient temperature of 30°C.

† Derived from Table D10B in Appendix D of the 2015 CE Code as per triplex cable formation in Detail 1 of Diagram D10 for direct buried aluminum conductor sizes No. 1/0 AWG and larger.

In compact ACM conductors (19) is 18 wire, (37) is 35 wire and (61) is 58 wire strands.