SIMpull® RWU90 Aluminum 1000 Volt

Single 8000 Series Aluminum Conductor, 1000V Alumaflex Strand, No. 6 AWG to 1000 Kcmil, 90°C MAX -40°C MIN, Sunlight Resistant. SIMpull® technology on sizes #8 and larger. Cable can be installed in conduit without the aid of lubrication.

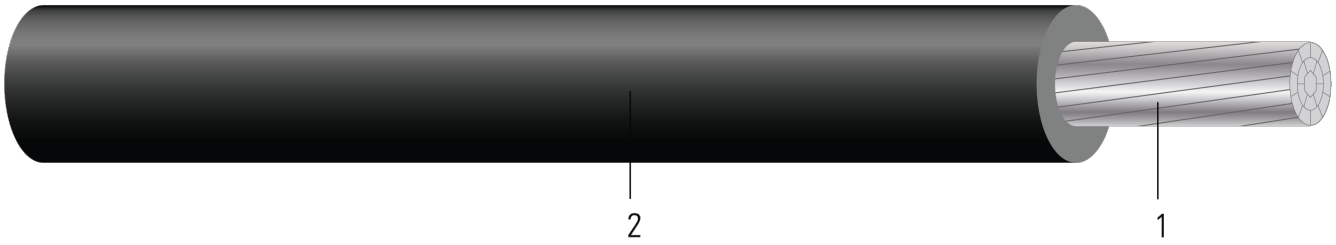

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compact stranded bare aluminum per ASTM B800 and ASTM B801 or Single Input Wire (SIW) Compact AL per ASTM B836
2. **Insulation:** Cross Linked Polyethylene (XLPE)

APPLICATIONS AND FEATURES:

Southwire's RWU90 is designed for direct earth burial (with protection as required by the inspecting authority). For service entrance above or below ground. The minimum recommended installation temperature is minus 40°C (with suitable handling procedures). Maximum conductor temperature is 90°C. Note: Standard black is sunlight resistant and marked "SR". Standard coloured insulation is not sunlight resistant. SIMpull® technology on sizes #8 and larger. Cable can be installed in conduit without the aid of lubrication.

SPECIFICATIONS:

- ASTM B800 8000 Series Aluminum Alloy Wire
- ASTM B836 Compact Rounded Stranded Aluminum Conductors
- CSA C22.2 No. 38 Thermoset-insulated wires and cables

SAMPLE PRINT LEGEND:

{SQMTR} SOUTHWIRE{R} LL90458 {CSA} XXX AWG (XX.X{mm2}) COMPACT AL. --- {ALUMAFLEX}{R} AA8176 RWU90 XLPE 1000 VOLTS -40{D}C SR

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand	Insul. Thickness	Insulation Color	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		inch	lb/1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
661721◊	6	7	80	RD	0.339	56	1.4	157	0.674	0.84	0.051	55
568942◊	6	7	80	BK	0.339	56	1.4	157	0.674	0.84	0.051	55
568943◊	4	7	80	BK	0.383	76	1.5	250	0.424	0.528	0.048	75
662964◊	4	7	80	WE	0.383	76	1.5	250	0.424	0.528	0.048	75
568944◊	2	6	80	BK	0.438	106	1.8	398	0.266	0.331	0.045	100
568945◊	1	18	95	BK	0.499	130	2	502	0.211	0.263	0.046	115
568794◊	1/0	18	95	BK	0.526	153	2.1	633	0.167	0.208	0.044	135
662482◊	1/0	18	95	BK	0.536	162	2.1	633	0.167	0.208	0.044	135
570875◊	2/0	12	95	BK	0.576	187	2.3	798	0.133	0.166	0.043	150
663133◊	2/0	12	95	BK	0.576	195	2.3	798	0.133	0.166	0.043	150
570772◊	3/0	16	95	BK	0.623	227	2.5	1006	0.105	0.131	0.042	175
663134◊	3/0	15	95	BK	0.623	234	2.5	1006	0.105	0.131	0.042	175
568793◊	4/0	19	95	BK	0.675	275	2.7	1269	0.084	0.105	0.041	205
663135◊	4/0	19	95	BK	0.675	284	2.7	1269	0.084	0.105	0.041	205
568792◊	250	22	110	BK	0.74	326	3	1500	0.07	0.087	0.041	230
663136◊	250	22	110	BK	0.752	342	3	1500	0.07	0.087	0.041	230
665531◊	350	35	110	BK	0.848	453	3.4	2100	0.051	0.064	0.04	280
568791◊	350	35	110	BK	0.848	441	3.4	2100	0.051	0.064	0.04	280
665428◊	400	35	110	BK	0.891	508	3.6	2400	0.044	0.055	0.04	305
665429◊	500	34	110	BK	0.968	616	3.9	3000	0.036	0.045	0.039	350
568789◊	500	34	110	BK	0.97	602	3.9	3000	0.036	0.045	0.039	350
593373◊	600	37	125	BK	1.077	747	5.4	3600	0.03	0.038	0.039	385
138703◊	750	61	125	BK	1.172	907	5.9	4500	0.023	0.03	0.038	435
568788◊	750	61	125	BK	1.172	888	5.9	4500	0.023	0.03	0.038	435
604121◊	1000	58	125	BK	1.324	1153	6.6	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

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Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Strand	Insul. Thickness	Insulation Color	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	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp
661721◊	6	7	2.03	RD	8.61	83	35.56	699	2.21	2.76	0.1673	55
568942◊	6	7	2.03	BK	8.61	83	35.56	699	2.21	2.76	0.1673	55
568943◊	4	7	2.03	BK	9.73	113	38.10	1113	1.39	1.73	0.1575	75
662964◊	4	7	2.03	WE	9.73	113	38.10	1113	1.39	1.73	0.1575	75
568944◊	2	6	2.03	BK	11.13	158	45.72	1771	0.87	1.09	0.1476	100
568945◊	1	18	2.41	BK	12.67	193	50.80	2234	0.69	0.86	0.1509	115
568794◊	1/0	18	2.41	BK	13.36	228	53.34	2817	0.55	0.68	0.1444	135
662482◊	1/0	18	2.41	BK	13.61	241	53.34	2817	0.55	0.68	0.1444	135
570875◊	2/0	12	2.41	BK	14.63	278	58.42	3551	0.44	0.54	0.1411	150
663133◊	2/0	12	2.41	BK	14.63	290	58.42	3551	0.44	0.54	0.1411	150
570772◊	3/0	16	2.41	BK	15.82	338	63.50	4477	0.34	0.43	0.1378	175
663134◊	3/0	15	2.41	BK	15.82	348	63.50	4477	0.34	0.43	0.1378	175
568793◊	4/0	19	2.41	BK	17.15	409	68.58	5647	0.28	0.34	0.1345	205
663135◊	4/0	19	2.41	BK	17.15	423	68.58	5647	0.28	0.34	0.1345	205
568792◊	250	22	2.79	BK	18.80	485	76.20	6675	0.23	0.29	0.1345	230
663136◊	250	22	2.79	BK	19.10	509	76.20	6675	0.23	0.29	0.1345	230
665531◊	350	35	2.79	BK	21.54	674	86.36	9345	0.17	0.21	0.1312	280
568791◊	350	35	2.79	BK	21.54	656	86.36	9345	0.17	0.21	0.1312	280
665428◊	400	35	2.79	BK	22.63	756	91.44	10680	0.14	0.18	0.1312	305
665429◊	500	34	2.79	BK	24.59	917	99.06	13350	0.12	0.15	0.1280	350
568789◊	500	34	2.79	BK	24.64	896	99.06	13350	0.12	0.15	0.1280	350
593373◊	600	37	3.18	BK	27.36	1112	137.16	16020	0.10	0.12	0.1280	385
138703◊	750	61	3.18	BK	29.77	1350	149.86	20025	0.08	0.10	0.1247	435
568788◊	750	61	3.18	BK	29.77	1321	149.86	20025	0.08	0.10	0.1247	435
604121◊	1000	58	3.18	BK	33.63	1716	167.64	26700	0.06	0.08	0.1214	500

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