



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





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	70	RD	0.339	55	1.300	157	0.674	0.812	0.051	55
568942◇	6	7	70	BK	0.339	55	1.300	157	0.674	0.812	0.051	55
662964◇	4	7	70	WE	0.383	76	1.500	250	0.424	0.510	0.048	75
568943◇	4	7	70	BK	0.383	76	1.500	250	0.424	0.510	0.048	75
568944◇	2	6	70	BK	0.438	106	1.700	398	0.267	0.321	0.045	100
568945◇	1	18	95	BK	0.499	130	1.900	502	0.211	0.254	0.046	115
568794◇	1/0	18	95	BK	0.526	152	2.100	633	0.168	0.201	0.044	135
662482◇	1/0	18	95	BK	0.536	162	2.100	633	0.168	0.201	0.044	135
663133◇	2/0	12	95	BK	0.576	194	2.300	798	0.133	0.160	0.043	150
570875◇	2/0	12	95	BK	0.576	187	2.300	798	0.133	0.160	0.043	150
665409◇	3/0	15	95	GN	0.623	234	2.500	1006	0.105	0.126	0.042	175
663134◇	3/0	15	95	BK	0.623	234	2.500	1006	0.105	0.126	0.042	175
570772◇	3/0	16	95	BK	0.623	226	2.400	1006	0.105	0.126	0.042	175
568793◇	4/0	19	95	BK	0.675	275	2.700	1269	0.084	0.100	0.041	205
663135◇	4/0	19	95	BK	0.675	283	2.700	1269	0.084	0.100	0.041	205
568792◇	250	22	110	BK	0.74	325	2.900	1500	0.071	0.086	0.041	230
663136◇	250	22	110	BK	0.752	342	3.000	1500	0.071	0.086	0.041	230
665531◇	350	35	110	BK	0.848	453	3.400	2100	0.050	0.062	0.040	280
568791◇	350	35	110	BK	0.848	441	3.300	2100	0.050	0.062	0.040	280
665428◇	400	35	110	BK	0.891	508	3.600	2400	0.044	0.054	0.040	305
568789◇	500	34	110	BK	0.97	601	3.800	3000	0.035	0.044	0.039	350
665429◇	500	34	110	BK	0.970	616	3.900	3000	0.035	0.044	0.039	350
593373◇	600	37	108	BK	1.077	747	5.300	3600	0.029	0.037	0.039	385
138703◇	750	61	125	BK	1.172	907	5.900	4500	0.024	0.031	0.038	435
568788◇	750	61	125	BK	1.172	887	5.800	4500	0.024	0.031	0.038	435
604121◇	1000	58	125	BK	1.324	1153	6.600	6000	0.018	0.025	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





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	1.78	RD	8.61	82	33.02	699	2.21	2.66	0.1673	55
568942◇	6	7	1.78	BK	8.61	82	33.02	699	2.21	2.66	0.1673	55
662964◇	4	7	1.78	WE	9.73	113	38.10	1113	1.39	1.67	0.1575	75
568943◇	4	7	1.78	BK	9.73	113	38.10	1113	1.39	1.67	0.1575	75
568944◇	2	6	1.78	BK	11.13	158	43.18	1771	0.88	1.05	0.1476	100
568945◇	1	18	2.41	BK	12.67	193	48.26	2234	0.69	0.83	0.1509	115
568794◇	1/0	18	2.41	BK	13.36	226	53.34	2817	0.55	0.66	0.1444	135
662482◇	1/0	18	2.41	BK	13.61	241	53.34	2817	0.55	0.66	0.1444	135
663133◇	2/0	12	2.41	BK	14.63	289	58.42	3551	0.44	0.52	0.1411	150
570875◇	2/0	12	2.41	BK	14.63	278	58.42	3551	0.44	0.52	0.1411	150
665409◇	3/0	15	2.41	GN	15.82	348	63.50	4477	0.34	0.41	0.1378	175
663134◇	3/0	15	2.41	BK	15.82	348	63.50	4477	0.34	0.41	0.1378	175
570772◇	3/0	16	2.41	BK	15.82	336	60.96	4477	0.34	0.41	0.1378	175
568793◇	4/0	19	2.41	BK	17.15	409	68.58	5647	0.28	0.33	0.1345	205
663135◇	4/0	19	2.41	BK	17.15	421	68.58	5647	0.28	0.33	0.1345	205
568792◇	250	22	2.79	BK	18.80	484	73.66	6675	0.23	0.28	0.1345	230
663136◇	250	22	2.79	BK	19.10	509	76.20	6675	0.23	0.28	0.1345	230
665531◇	350	35	2.79	BK	21.54	674	86.36	9345	0.16	0.20	0.1312	280
568791◇	350	35	2.79	BK	21.54	656	83.82	9345	0.16	0.20	0.1312	280
665428◇	400	35	2.79	BK	22.63	756	91.44	10680	0.14	0.18	0.1312	305
568789◇	500	34	2.79	BK	24.64	894	96.52	13350	0.11	0.14	0.1280	350
665429◇	500	34	2.79	BK	24.64	917	99.06	13350	0.11	0.14	0.1280	350
593373◇	600	37	2.74	BK	27.36	1112	134.62	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	1320	147.32	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

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

