



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 SIMpull® aluminum RWU90 is for open wiring used in raceways (except cabletroughs and ventilated flexible cableways) in dry or wet locations. For open wiring exposed to the weather. Minimum recommended installation temperature minus 40°C (with suitable handling procedures). Maximum conductor temperature 90°C. 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

