

SIMpull® RW90 Aluminum

Single 8000 Series Aluminum Conductor, 600V Alumaflex Strand, No. 6 AWG to 1000 Cmil, FT4 Flame Test Rating - (in all colours, sizes 350 KCMIL & larger), 90°C MAX -40°C MIN, Sunlight Resistant

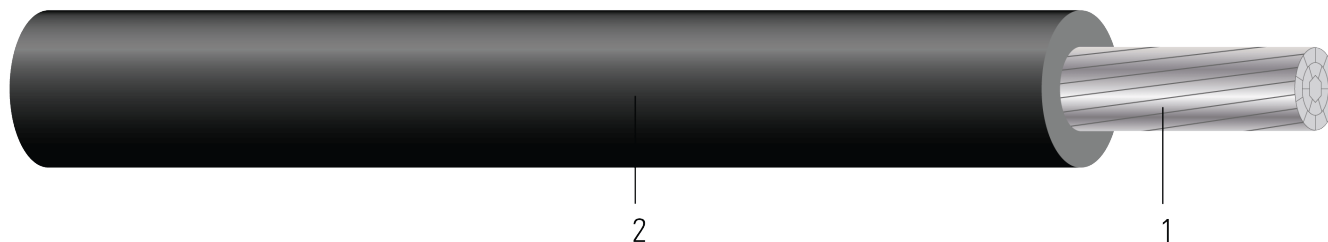


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series aluminum per ASTM B800
2. **Insulation:** All phases are insulated with Cross Linked Polyethylene (XLPE)

APPLICATIONS AND FEATURES:

Southwire's SIMpull® aluminum RW90 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.

SPECIFICATIONS:

- ASTM B800 8000 Series Aluminum Alloy Wire

SAMPLE PRINT LEGEND:

SOUTHWIRE SIMpull{TM} E51583 {UL} {XX AWG} XX.X{mm²} CU TYPE MTW OR THWN-2 OR THHN OR GASOLINE AND OIL RESISTANT II OR AWM 600 VOLTS VW-1 --- {CSA} T90 NYLON OR TWN75 600 VOLTS FT1 {NOM}-ANCE 90°C - (X AWG) --- RoHS PAT www.patentSW.com



Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand	Insul. 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	inch	lb/1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
562497◇	6	7	45	0.265	40	1	157	0.674	0.812	0.051	55
562498◇	4	7	45	0.309	58	1.2	250	0.424	0.51	0.048	75
562499◇	2	6	45	0.364	85	1.4	398	0.267	0.321	0.045	100
561705◇	1	8	55	0.415	109	1.6	502	0.211	0.254	0.046	115
561667◇	1/0	10	55	0.452	133	1.8	633	0.168	0.201	0.044	135
562276◇	2/0	12	55	0.492	163	1.9	798	0.133	0.16	0.043	150
561596◇	3/0	15	55	0.539	200	2.1	1006	0.105	0.126	0.042	175
560975◇	4/0	19	55	0.591	246	2.3	1269	0.084	0.1	0.041	205
560988◇	250	22	65	0.658	296	2.6	1500	0.071	0.086	0.041	230
561293◇	300	21	65	0.708	349	2.8	1800	0.059	0.071	0.041	260
560983◇	350	35	65	0.754	400	3	2100	0.05	0.062	0.04	280
561598◇	400	35	65	0.797	452	3.1	2400	0.044	0.054	0.04	305
560984◇	500	34	65	0.876	556	3.5	3000	0.035	0.044	0.039	350
580897◇	600	37	80	0.983	680	3.9	3600	0.029	0.037	0.039	385
560985◇	750	61	80	1.078	834	5.3	4500	0.024	0.031	0.038	435
560986◇	1000	58	80	1.23	1090	6.1	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	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
562497◇	6	7	1.14	6.73	60	25.40	699	2.21	2.66	0.1673	55
562498◇	4	7	1.14	7.85	86	30.48	1113	1.39	1.67	0.1575	75
562499◇	2	6	1.14	9.25	126	35.56	1771	0.88	1.05	0.1476	100
561705◇	1	8	1.40	10.54	162	40.64	2234	0.69	0.83	0.1509	115
561667◇	1/0	10	1.40	11.48	198	45.72	2817	0.55	0.66	0.1444	135
562276◇	2/0	12	1.40	12.50	243	48.26	3551	0.44	0.52	0.1411	150
561596◇	3/0	15	1.40	13.69	298	53.34	4477	0.34	0.41	0.1378	175
560975◇	4/0	19	1.40	15.01	366	58.42	5647	0.28	0.33	0.1345	205
560988◇	250	22	1.65	16.71	440	66.04	6675	0.23	0.28	0.1345	230
561293◇	300	21	1.65	17.98	519	71.12	8010	0.19	0.23	0.1345	260
560983◇	350	35	1.65	19.15	595	76.20	9345	0.16	0.20	0.1312	280
561598◇	400	35	1.65	20.24	673	78.74	10680	0.14	0.18	0.1312	305
560984◇	500	34	1.65	22.25	827	88.90	13350	0.11	0.14	0.1280	350
580897◇	600	37	2.03	24.97	1012	99.06	16020	0.10	0.12	0.1280	385
560985◇	750	61	2.03	27.38	1241	134.62	20025	0.08	0.10	0.1247	435
560986◇	1000	58	2.03	31.24	1622	154.94	26700	0.06	0.08	0.1214	500

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