



SIMpull™ AL 600V XLPE Insulation. RW90

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



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** 8000 Series ACM Aluminum Class B stranded conductor.
2. **Insulation:** Crosslinked Polyethylene (XLPE) insulation with SIMpull®

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 B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- CSA Standard C22.2 No. 38 File Listing LL90458

SAMPLE PRINT LEGEND:

SOUTHWIRE® XXXX KCMIL NOLUBE® SIMpull RW90{TM} LL90458 {CSA} XXX.XX {mm2} COMPACT AL. --- AlumaFlex {TM} AA8176 RW90 XLPE 600 VOLTS (-40°C) SR - MADE UNDER US PATENT NOS 7411129 & 7557301-RW90 500 KCMIL FT4 {MMM/DD/YYYY} - OPERATOR NAME SEQUENTIAL METER MARKS





Table 1 – Weights and Measurements

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
2	7	45	0.358	85	1.4	398	0.267	0.321	0.045	100
1	8	55	0.408	109	1.6	502	0.211	0.254	0.046	115
1/0	10	55	0.446	134	1.7	633	0.168	0.201	0.044	135
2/0	12	55	0.486	163	1.9	798	0.133	0.160	0.043	150
3/0	16	55	0.532	200	2.1	1006	0.105	0.126	0.042	175
4/0	19	55	0.584	246	2.3	1269	0.084	0.100	0.041	205
250	22	65	0.650	297	2.6	1500	0.071	0.086	0.041	230
350	35	65	0.745	401	2.9	2100	0.050	0.062	0.040	280
400	35	65	0.789	453	3.1	2400	0.044	0.054	0.040	305
500	35	65	0.865	556	3.4	3000	0.035	0.044	0.039	350
750	58	80	1.068	835	5.3	4500	0.024	0.031	0.038	435
1000	58	80	1.220	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)

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
2	7	1.14	9.09	126	35.56	1771	0.88	1.05	0.1476	100
1	8	1.40	10.36	162	40.64	2234	0.69	0.83	0.1509	115
1/0	10	1.40	11.33	199	43.18	2817	0.55	0.66	0.1444	135
2/0	12	1.40	12.34	243	48.26	3551	0.44	0.52	0.1411	150
3/0	16	1.40	13.51	298	53.34	4477	0.34	0.41	0.1378	175
4/0	19	1.40	14.83	366	58.42	5647	0.28	0.33	0.1345	205
250	22	1.65	16.51	442	66.04	6675	0.23	0.28	0.1345	230
350	35	1.65	18.92	597	73.66	9345	0.16	0.20	0.1312	280
400	35	1.65	20.04	674	78.74	10680	0.14	0.18	0.1312	305
500	35	1.65	21.97	827	86.36	13350	0.11	0.14	0.1280	350
750	58	2.03	27.13	1243	134.62	20025	0.08	0.10	0.1247	435
1000	58	2.03	30.99	1622	154.94	26700	0.06	0.08	0.1214	500

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