SIM*pull*™ 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

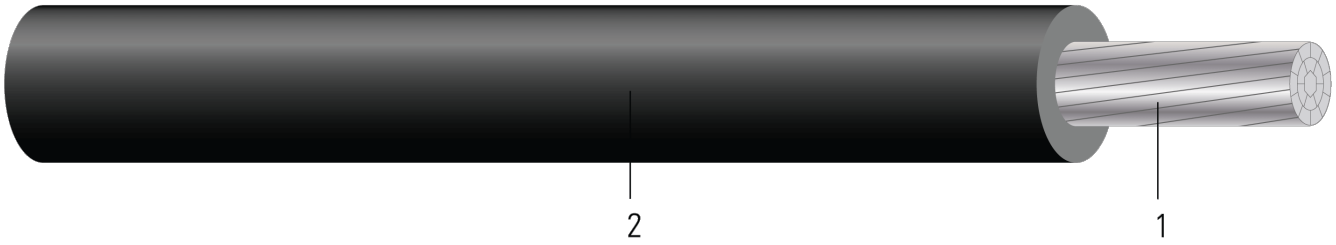


Image not to scale. See Table 1 for dimensions.

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

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

Table 1 – Weights and Measurements

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
2	7	45	BK	0.358	88	1.4	398	0.266	0.331	0.045	100
1	8	55	BK	0.409	114	1.6	502	0.211	0.263	0.046	115
1/0	10	55	BK	0.446	137	1.8	633	0.167	0.208	0.044	135
2/0	12	55	BK	0.486	167	1.9	798	0.133	0.166	0.043	150
3/0	16	55	BK	0.533	205	2.1	1006	0.105	0.131	0.042	175
4/0	19	55	BK	0.585	251	2.3	1269	0.084	0.105	0.041	205
250	22	65	BK	0.65	302	2.6	1500	0.07	0.087	0.041	230
350	35	65	BK	0.746	407	3	2100	0.051	0.064	0.04	280
400	35	65	BK	0.789	459	3.2	2400	0.044	0.055	0.04	305
500	35	65	BK	0.866	563	3.5	3000	0.036	0.045	0.039	350
750	58	80	BK	1.068	846	5.3	4500	0.023	0.03	0.038	435
1000	58	80	BK	1.277	1111	6.4	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
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Weights and Measurements (Metric)

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
2	7	1.14	BK	9.09	131	35.56	1771	0.87	1.09	0.1476	100
1	8	1.40	BK	10.39	170	40.64	2234	0.69	0.86	0.1509	115
1/0	10	1.40	BK	11.33	204	45.72	2817	0.55	0.68	0.1444	135
2/0	12	1.40	BK	12.34	249	48.26	3551	0.44	0.54	0.1411	150
3/0	16	1.40	BK	13.54	305	53.34	4477	0.34	0.43	0.1378	175
4/0	19	1.40	BK	14.86	374	58.42	5647	0.28	0.34	0.1345	205
250	22	1.65	BK	16.51	449	66.04	6675	0.23	0.29	0.1345	230
350	35	1.65	BK	18.95	606	76.20	9345	0.17	0.21	0.1312	280
400	35	1.65	BK	20.04	683	81.28	10680	0.14	0.18	0.1312	305
500	35	1.65	BK	22.00	838	88.90	13350	0.12	0.15	0.1280	350
750	58	2.03	BK	27.13	1259	134.62	20025	0.08	0.10	0.1247	435
1000	58	2.03	BK	32.44	1653	162.56	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
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Copyright © 2026 Southwire Company, LLC. All Rights Reserved