1/C CU 600V RW90 SIMpull®

Copper Conductor, 600V, 90°C MAX - 40°C MIN, 1/0 AWG to 1000 KCMIL. Sizes 350 kcmil & Larger FT4 Rated. All Sizes and Colors Are Sunlight Resistant.

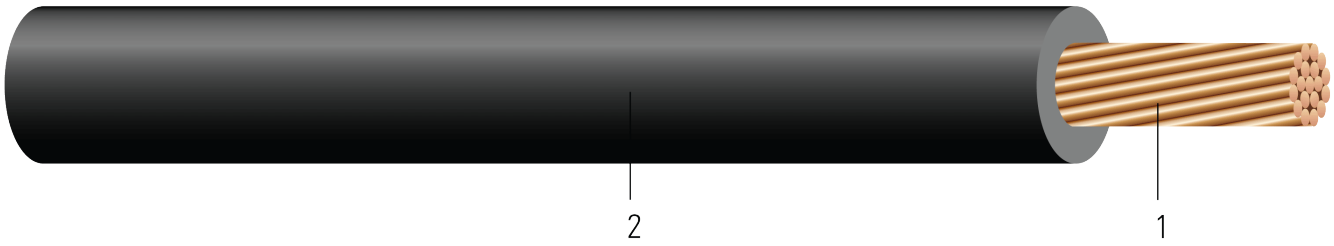

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) SIMpull®

APPLICATIONS AND FEATURES:

Single copper conductor with low temperature, moisture resisting XLPE (cross linked polyethylene) insulation. Standard sizes 1/0 AWG and larger utilize SIMpull ® technology. All sizes are Sunlight Resistant in all colors and packaging. This product meets the current RoHS requirements. No lead is added or used in manufacturing.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- CSA SUN RES - for Sunlight Resistant rating
- IEEE 1202/FT4 Flame Test (70,000 BTU/hr) 350kcmil and Larger

SAMPLE PRINT LEGEND:

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

UPDATED: Dec. 11, 2023, 9:29 p.m.UTC REVISION: 1.000.000

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
951749	12	7	30	0.153	25	0.6	32	1.662	2.002	0.054	30
951756	10	7	30	0.175	38	0.7	52	1.040	1.253	0.050	40
951764	8	7	45	0.238	64	0.9	132	0.653	0.786	0.052	55
951772	6	7	45	0.274	97	1.0	209	0.411	0.495	0.051	75
951780	4	7	45	0.321	149	1.2	333	0.258	0.310	0.048	95
951798	2	7	45	0.379	231	1.5	530	0.162	0.195	0.045	130
951806	1	19	55	0.438	292	1.7	669	0.128	0.154	0.046	145
951814	1/0	19	55	0.478	363	1.9	844	0.102	0.122	0.044	170
951822	2/0	19	55	0.520	452	2.0	1064	0.081	0.097	0.043	195
951830	3/0	19	55	0.570	564	2.2	1342	0.064	0.078	0.042	225
951848	4/0	19	55	0.626	707	2.5	1692	0.051	0.062	0.041	260
951855	250	37	65	0.680	828	2.7	2000	0.043	0.053	0.041	290
951871	350	37	65	0.799	1155	3.1	2800	0.031	0.039	0.040	350
951897	500	37	65	0.904	1618	3.6	4000	0.022	0.029	0.039	430
951905	600	61	80	1.036	1967	5.1	4800	0.018	0.025	0.039	475
951913	750	61	80	1.138	2442	5.6	6000	0.014	0.022	0.038	535
951921	1000	61	80	1.287	3232	6.4	8000	0.011	0.018	0.037	615

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

†Ampacities derived from the 2015 Canadian Electrical Code - Table 1 - For single conductor in free air and based on an ambient temperature of 30°C. - Table 2 - for Cable in Conduit. Not more than 3 aluminum conductors in a conduit and based on an ambient temperature of 30°C.

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
951749	12	7	0.76	3.89	37	15.24	142	5.45	6.57	0.1772	30
951756	10	7	0.76	4.44	57	17.78	231	3.41	4.11	0.1640	40
951764	8	7	1.14	6.05	95	22.86	587	2.14	2.58	0.1706	55
951772	6	7	1.14	6.96	144	25.40	930	1.35	1.62	0.1673	75
951780	4	7	1.14	8.15	222	30.48	1482	0.85	1.02	0.1575	95
951798	2	7	1.14	9.63	344	38.10	2359	0.53	0.64	0.1476	130
951806	1	19	1.40	11.13	435	43.18	2977	0.42	0.51	0.1509	145
951814	1/0	19	1.40	12.14	540	48.26	3756	0.33	0.40	0.1444	170
951822	2/0	19	1.40	13.21	673	50.80	4735	0.27	0.32	0.1411	195
951830	3/0	19	1.40	14.48	839	55.88	5972	0.21	0.26	0.1378	225
951848	4/0	19	1.40	15.90	1052	63.50	7529	0.17	0.20	0.1345	260
951855	250	37	1.65	17.27	1232	68.58	8900	0.14	0.17	0.1345	290
951871	350	37	1.65	20.29	1719	78.74	12460	0.10	0.13	0.1312	350
951897	500	37	1.65	22.96	2408	91.44	17800	0.07	0.10	0.1280	430
951905	600	61	2.03	26.31	2927	129.54	21360	0.06	0.08	0.1280	475
951913	750	61	2.03	28.91	3634	142.24	26700	0.05	0.07	0.1247	535
951921	1000	61	2.03	32.69	4810	162.56	35600	0.04	0.06	0.1214	615

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

†Ampacities derived from the 2015 Canadian Electrical Code - Table 1 - For single conductor in free air and based on an ambient temperature of 30°C. - Table 2 - for Cable in Conduit. Not more than 3 aluminum conductors in a conduit and based on an ambient temperature of 30°C.