

1/C CU 600V RW90 SIMpull®

Copper Conductor, 600V, 90°C MAX - 40°C MIN, 1/0 AWG to 1000 KCMIL. Sizes 1/0 AWG & larger are Sunlight Resistant and FT4 Flame Test Rated and in all colors.

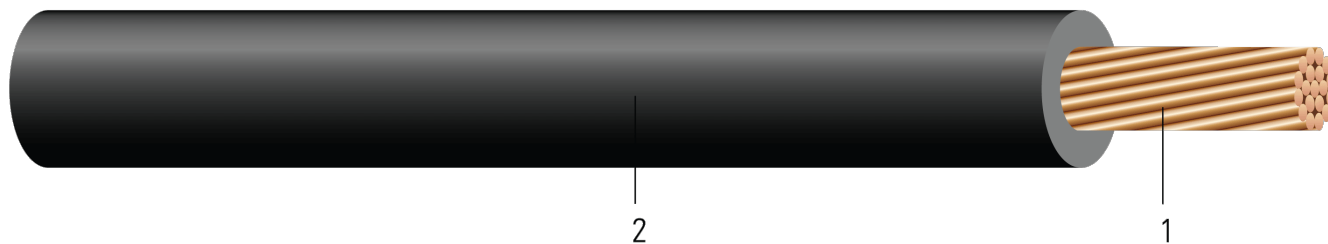


Image not to scale. See Table 1 for dimensions.

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, are Sunlight Resistant and FT4 Flame Test rated in all colors and packaging. This product meets the current RoHS requirements. No lead is added or used in manufacturing.

SPECIFICATIONS:

- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- CSA C22.2 No. 38 Thermoset-insulated wires and cables Type RW90
- CSA SUN RES - for Sunlight Resistant rating

SAMPLE PRINT LEGEND:

SOUTHWIRE{R} XXXX KCMIL NOLUBE{R} SIMpull RW90{TM} LL90458 {CSA} (XXXX.XX{mm²}) CU RW90 XLPE 600 VOLTS (-40{D}C) SR - MADE UNDER US PATENT NOS 7411129 & 7557301-RW90 XXXX KCMIL FT4 {MMM/DD/YYYY} - OPERATOR NAME SEQUENTIAL METER MARKS SEQ METERS



Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand	Diameter Over Conductor	Insul. Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Phase Short Circuit Current @ 60Hz	Allowable Ampacity In Air 90°C†	Allowable Ampacity In Raceway 90°C†
	AWG/Kcmil	No.	inch	mil	inch	lb/1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
951749	12	7	0.087	30	0.149	26	0.6	40	1.660	2.075	0.045	1087	20	20
951756	10	7	0.113	30	0.173	39	0.7	83	1.040	1.300	0.033	2361	30	30
951764	8	7	0.139	45	0.232	64	1.0	132	0.652	0.815	0.038	3754	80	55
951772	6	7	0.174	45	0.268	97	1.1	210	0.411	0.514	0.035	5966	105	75
951780	4	7	0.221	45	0.315	149	1.3	334	0.258	0.323	0.033	9491	140	95
951798	2	7	0.277	45	0.373	230	1.5	531	0.162	0.203	0.031	15089	190	130
951806	1	19	0.321	55	0.436	292	1.8	670	0.129	0.161	0.032	19029	220	145
951814	1/0	19	0.360	55	0.479	364	1.9	845	0.102	0.128	0.031	24011	260	170
951822	2/0	19	0.404	55	0.518	452	2.1	1065	0.081	0.102	0.030	30264	300	195
951830	3/0	19	0.454	55	0.568	564	2.3	1342	0.064	0.081	0.029	38154	350	225
951848	4/0	19	0.510	55	0.624	705	2.5	1693	0.051	0.064	0.029	48114	405	260
951855	250	37	0.558	65	0.692	834	2.8	2000	0.043	0.055	0.029	56845	455	290
951871	350	37	0.661	65	0.798	1155	3.2	2800	0.031	0.040	0.028	79583	570	350
951897	500	37	0.789	65	0.927	1633	3.7	4000	0.022	0.028	0.027	113690	700	430
951905	600	61	0.866	80	1.033	1965	5.2	4800	0.018	0.024	0.027	136428	780	475
951913	750	61	0.968	80	1.132	2438	5.7	6000	0.014	0.020	0.027	170535	885	535

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	Diameter Over Conductor	Insul. Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Phase Short Circuit Current @ 60Hz	Allowable Ampacity In Air 90°C†	Allowable Ampacity In Raceway 90°C†
	AWG/Kcmil	No.	mm	mm	mm	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp	Amp	Amp
951749	12	7	2.21	0.76	3.78	39	15.24	178	5.4462	6.81	0.1476	1087	20	20
951756	10	7	2.87	0.76	4.39	58	17.78	369	3.4121	4.27	0.1083	2361	30	30
951764	8	7	3.53	1.14	5.89	95	25.40	587	2.1391	2.67	0.1247	3754	80	55
951772	6	7	4.42	1.14	6.81	144	27.94	935	1.3484	1.69	0.1148	5966	105	75
951780	4	7	5.61	1.14	8.00	222	33.02	1486	0.8465	1.06	0.1083	9491	140	95
951798	2	7	7.04	1.14	9.47	342	38.10	2363	0.5315	0.67	0.1017	15089	190	130
951806	1	19	8.15	1.40	11.07	435	45.72	2982	0.4232	0.53	0.1050	19029	220	145
951814	1/0	19	9.14	1.40	12.17	542	48.26	3760	0.3346	0.42	0.1017	24011	260	170
951822	2/0	19	10.26	1.40	13.16	673	53.34	4739	0.2657	0.33	0.0984	30264	300	195
951830	3/0	19	11.53	1.40	14.43	839	58.42	5972	0.2100	0.27	0.0951	38154	350	225
951848	4/0	19	12.95	1.40	15.85	1049	63.50	7534	0.1673	0.21	0.0951	48114	405	260
951855	250	37	14.17	1.65	17.58	1241	71.12	8900	0.1411	0.18	0.0951	56845	455	290
951871	350	37	16.79	1.65	20.27	1719	81.28	12460	0.1017	0.13	0.0919	79583	570	350
951897	500	37	20.04	1.65	23.55	2430	93.98	17800	0.0722	0.09	0.0886	113690	700	430
951905	600	61	22.00	2.03	26.24	2924	132.08	21360	0.0591	0.08	0.0886	136428	780	475
951913	750	61	24.59	2.03	28.75	3628	144.78	26700	0.0459	0.07	0.0886	170535	885	535

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.

