CU 1000V SOLONONplus™ RWU90

Single Copper Conductors, LSZH Insulation, Sunlight Resistant, 1000V, 90ºC MAX, -40°C MIN, Gasoline & Oil Resistant

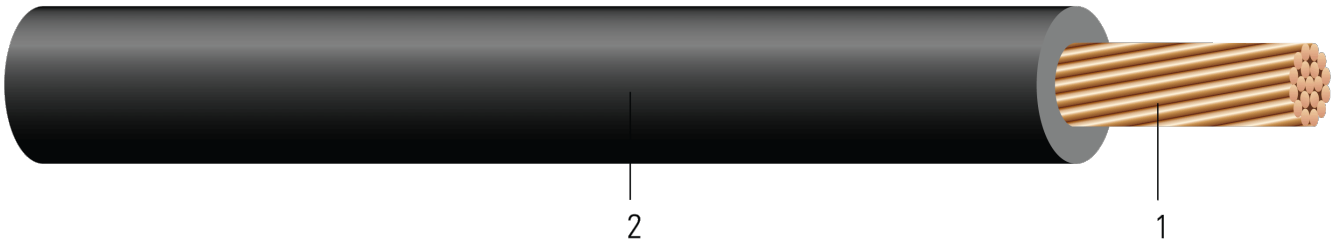

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Low Smoke Zero Halogen (LSZH), SOLONONplus™

APPLICATIONS AND FEATURES:

Southwire's RWU90 is designed for direct earth burial (with protection as required by the inspecting authority). For service entrance above or below ground. The minimum recommended installation temperature is minus 40°C (with suitable handling procedures). Maximum conductor temperature is 90°C.

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 C22.2 No.230 Tray Cables - Rated TC
- CSA SUN RES - for Sunlight Resistant rating
- CSA ST1 Smoke Test - Marked FT4-ST1 (2 AWG and Larger)
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems (500kcmil & Larger)
- NFPA 502 Standard for Road Tunnels, Bridges, and Other Limited Access Highways (non-emergency circuits only)

SAMPLE PRINT LEGEND:

SOUTHWIRE SOLONONplus{TM} LSZH 156205 {CSA} XXX KCMIL (XXX{mm2}) CU RWU90 1000V VW-1 HAL-FREE TC PRI PRII GRI GRII -40°C SR FT4 ST-1

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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
TBA	14	7	60	0.190	25	0.7	33	2.631	3.170	0.058	25
TBA	12	7	60	0.217	34	0.8	52	1.662	2.002	0.054	30
TBA	10	7	60	0.239	48	0.9	83	1.040	1.253	0.050	40
TBA	6	7	80	0.346	110	1.3	210	0.411	1.253	0.051	75
TBA	2	7	80	0.451	247	1.8	531	0.162	0.195	0.045	130
TBA	1	19	95	0.522	313	2.0	670	0.128	0.154	0.046	145
TBA	1/0	19	95	0.552	383	2.2	845	0.102	0.122	0.044	170
TBA	2/0	19	95	0.596	480	2.3	1065	0.081	0.097	0.043	195
TBA	3/0	19	95	0.654	591	2.6	1342	0.064	0.078	0.042	225
TBA	4/0	19	95	0.710	744	2.8	1693	0.051	0.062	0.041	260
TBA	250	37	110	0.778	867	3.1	2000	0.043	0.053	0.041	290
TBA	350	37	110	0.881	1191	3.5	2800	0.031	0.039	0.040	350
TBA	500	37	110	1.009	1673	5.0	4000	0.022	0.029	0.039	430
TBA	600	62	125	1.130	2019	5.6	4800	0.018	0.025	0.039	475
TBA	750	61	125	1.218	2489	6.0	6000	0.014	0.022	0.038	535
TBA	1000	62	125	1.367	3285	6.8	8000	0.011	0.019	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 2021 Canadian Electrical Code Table 1 for not more than three insulated copper conductors, rated not more than 5000 V and unshielded, in raceway or cable (based on an ambient temperature of 30 °C)
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.

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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
TBA	14	7	1.52	4.83	37	17.78	147	8.63	10.40	0.1903	25
TBA	12	7	1.52	5.51	51	20.32	231	5.45	6.57	0.1772	30
TBA	10	7	1.52	6.07	71	22.86	369	3.41	4.11	0.1640	40
TBA	6	7	2.03	8.79	164	33.02	935	1.35	4.11	0.1673	75
TBA	2	7	2.03	11.46	368	45.72	2363	0.53	0.64	0.1476	130
TBA	1	19	2.41	13.26	466	50.80	2982	0.42	0.51	0.1509	145
TBA	1/0	19	2.41	14.02	570	55.88	3760	0.33	0.40	0.1444	170
TBA	2/0	19	2.41	15.14	714	58.42	4739	0.27	0.32	0.1411	195
TBA	3/0	19	2.41	16.61	880	66.04	5972	0.21	0.26	0.1378	225
TBA	4/0	19	2.41	18.03	1107	71.12	7534	0.17	0.20	0.1345	260
TBA	250	37	2.79	19.76	1290	78.74	8900	0.14	0.17	0.1345	290
TBA	350	37	2.79	22.38	1772	88.90	12460	0.10	0.13	0.1312	350
TBA	500	37	2.79	25.63	2490	127.00	17800	0.07	0.10	0.1280	430
TBA	600	62	3.18	28.70	3005	142.24	21360	0.06	0.08	0.1280	475
TBA	750	61	3.18	30.94	3704	152.40	26700	0.05	0.07	0.1247	535
TBA	1000	62	3.18	34.72	4889	172.72	35600	0.04	0.06	0.1214	615

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◊ Cable marked with this symbol is a standard stock item
†Ampacities derived from the 2021 Canadian Electrical Code Table 1 for not more than three insulated copper conductors, rated not more than 5000 V and unshielded, in raceway or cable (based on an ambient temperature of 30 °C)
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