CU 1000V LSZH Solononplus™ Insulation. RW90

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

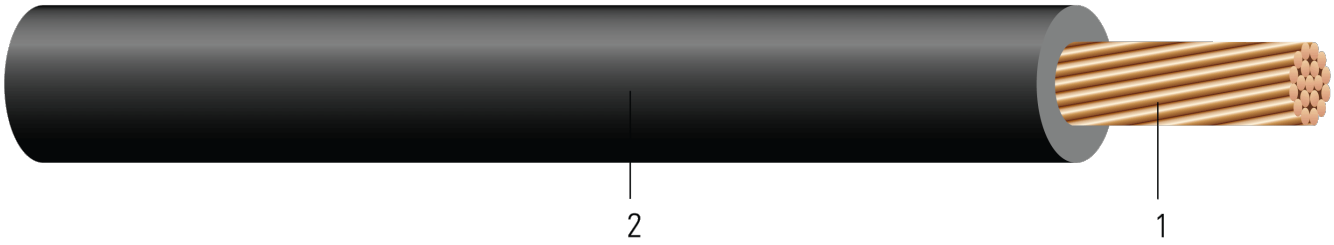


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

APPLICATIONS AND FEATURES:

Suitable for installation in Cable Trays, Underground Duct Banks - As per CE Code limitations (see Rule 12-2202) for grounding and bonding applications. Standard colour is black. Some sizes may be availabe in white, red, blue, yellow, brown, orange or grey. Green Duraground™ also available.

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 C22.2 No. 2556 / UL 2556 Cable Test Methods
- CSA LTGG [-40°C] - as per C68.10 - for Cold Bend and Impact rating
- CSA SUN RES - for Sunlight Resistant rating
- CSA ST1 Smoke Test - Marked FT4-ST1 (2 AWG and Larger)
- Oil Res I & Sun Res
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems (2 AWG and larger)
- NFPA 502 Standard for Road Tunnels, Bridges, and Other Limited Access Highways (non-emergency circuits only)

SAMPLE PRINT LEGEND:

SOUTHWIRE SOLONONplus{TM} LSZH XLPO 156205 {CSA} XXX KCMIL (XXX{mm2}) CU RW90 1000V VW-1 HAL-FREE TC PRI PRII GRI GRII -40°C SR FT4 ST-1

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

Table 1 – Weights and Measurements

Stock Number	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
TBA	14	7	45	Black	0.160	20	0.6	32	2.631	3.170	0.058	25
456277	12	7	45	BK	0.185	36	0.7	52	1.662	2.002	0.054	30
456282	10	7	45	BK	0.209	50	0.8	83	1.04	1.253	0.050	40
TBA	8	7	45	Black	0.231	63	0.9	132	0.653	0.786	0.052	55
TBA	6	7	60	Black	0.297	104	1.1	209	0.411	0.495	0.051	75
TBA	4	7	60	Black	0.345	155	1.3	333	0.258	0.310	0.048	95
TBA	2	7	60	Black	0.402	237	1.6	530	0.162	0.195	0.045	130
TBA	1/0	19	80	Black	0.521	382	2.0	844	0.102	0.122	0.044	170
TBA	2/0	19	80	Black	0.565	473	2.2	1064	0.081	0.097	0.043	195
TBA	3/0	19	80	Black	0.616	588	2.4	1342	0.064	0.078	0.042	225
TBA	4/0	19	80	Black	0.672	730	2.6	1692	0.051	0.062	0.041	260
TBA	250	37	90	Black	0.738	866	2.9	2000	0.043	0.053	0.041	290
TBA	350	37	90	Black	0.841	1191	3.3	2800	0.031	0.039	0.040	350
664475	500	37	90	Black	0.956	1716	3.8	4000	0.022	0.029	0.039	430
TBA	750	61	90	Black	1.148	2471	5.7	6000	0.014	0.022	0.038	535
664478	1000	61	90	Black	1.307	3347	6.5	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
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

Table 2 – Weights and Measurements (Metric)

Stock Number	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
TBA	14	7	1.14	Black	4.06	30	15.24	142	8.63	10.40	0.1903	25
456277	12	7	1.14	BK	4.70	54	17.78	231	5.45	6.57	0.1772	30
456282	10	7	1.14	BK	5.31	74	20.32	369	3.41	4.11	0.1640	40
TBA	8	7	1.14	Black	5.87	94	22.86	587	2.14	2.58	0.1706	55
TBA	6	7	1.52	Black	7.54	155	27.94	930	1.35	1.62	0.1673	75
TBA	4	7	1.52	Black	8.76	231	33.02	1482	0.85	1.02	0.1575	95
TBA	2	7	1.52	Black	10.21	353	40.64	2359	0.53	0.64	0.1476	130
TBA	1/0	19	2.03	Black	13.23	568	50.80	3756	0.33	0.40	0.1444	170
TBA	2/0	19	2.03	Black	14.35	704	55.88	4735	0.27	0.32	0.1411	195
TBA	3/0	19	2.03	Black	15.65	875	60.96	5972	0.21	0.26	0.1378	225
TBA	4/0	19	2.03	Black	17.07	1086	66.04	7529	0.17	0.20	0.1345	260
TBA	250	37	2.29	Black	18.75	1289	73.66	8900	0.14	0.17	0.1345	290
TBA	350	37	2.29	Black	21.36	1772	83.82	12460	0.10	0.13	0.1312	350
664475	500	37	2.29	Black	24.28	2554	96.52	17800	0.07	0.10	0.1280	430
TBA	750	61	2.29	Black	29.16	3677	144.78	26700	0.05	0.07	0.1247	535
664478	1000	61	2.29	Black	33.20	4981	165.10	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
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