CU 1000V LSZH Solononplus™ Insulation. RW90

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

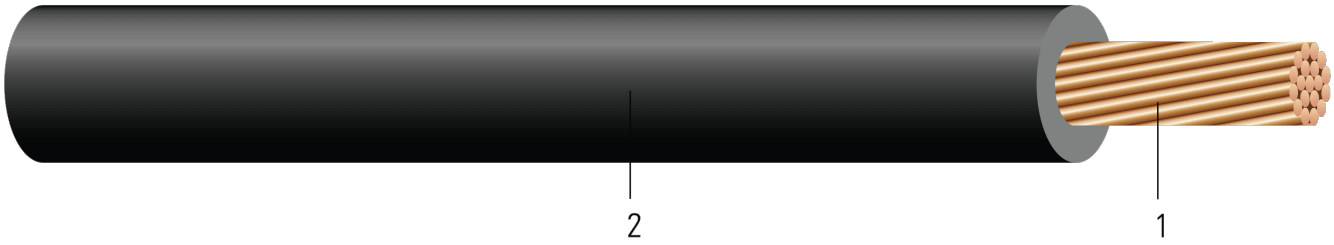

Image not to scale. See Table 1 for dimensions.

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

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand	Insul. Thickness	Insulation Color	Approx. OD	Approx. Weight	Min Bending Radius	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	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
TBA	14	7	45	BK	0.161	22	0.6	2.631	3.265	0.058	25
456277	12	7	45	BK	0.185	36	0.7	1.662	2.063	0.054	30
456282	10	7	45	BK	0.209	51	0.8	1.04	1.291	0.05	40
TBA	8	7	45		0.232	66	0.9	0.653	0.81	0.052	55
TBA	6	7	60		0.298	106	1.2	0.411	0.51	0.051	75
TBA	4	7	60		0.345	159	1.4	0.258	0.32	0.048	95
TBA	2	7	60		0.403	241	1.6	0.162	0.201	0.045	130
TBA	1/0	19	80	BK	0.522	389	2.1	0.102	0.127	0.044	170
TBA	2/0	19	80	BK	0.565	480	2.3	0.082	0.102	0.043	195
TBA	3/0	19	80	BK	0.616	594	2.5	0.064	0.079	0.042	225
TBA	4/0	19	80	BK	0.672	737	2.7	0.051	0.063	0.041	260
TBA	250	37	90	BK	0.738	875	3	0.043	0.053	0.041	290
TBA	350	37	90	BK	0.841	1201	3.4	0.031	0.039	0.04	350
664475	500	37	90	BK	0.956	1716	3.8	0.021	0.027	0.039	430
TBA	750	61	90	BK	1.148	2485	5.7	0.014	0.019	0.038	535
664478	1000	61	90	BK	1.307	3348	6.5	0.011	0.016	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.

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Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Strand	Insul. Thickness	Insulation Color	Approx. OD	Approx. Weight	Min Bending Radius	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	Ω/km	Ω/km	Ω/km	Amp
TBA	14	7	1.14	BK	4.09	33	15.24	8.63	10.71	0.1903	25
456277	12	7	1.14	BK	4.70	54	17.78	5.45	6.77	0.1772	30
456282	10	7	1.14	BK	5.31	76	20.32	3.41	4.24	0.1640	40
TBA	8	7	1.14		5.89	98	22.86	2.14	2.66	0.1706	55
TBA	6	7	1.52		7.57	158	30.48	1.35	1.67	0.1673	75
TBA	4	7	1.52		8.76	237	35.56	0.85	1.05	0.1575	95
TBA	2	7	1.52		10.24	359	40.64	0.53	0.66	0.1476	130
TBA	1/0	19	2.03	BK	13.26	579	53.34	0.33	0.42	0.1444	170
TBA	2/0	19	2.03	BK	14.35	714	58.42	0.27	0.33	0.1411	195
TBA	3/0	19	2.03	BK	15.65	884	63.50	0.21	0.26	0.1378	225
TBA	4/0	19	2.03	BK	17.07	1097	68.58	0.17	0.21	0.1345	260
TBA	250	37	2.29	BK	18.75	1302	76.20	0.14	0.17	0.1345	290
TBA	350	37	2.29	BK	21.36	1787	86.36	0.10	0.13	0.1312	350
664475	500	37	2.29	BK	24.28	2554	96.52	0.07	0.09	0.1280	430
TBA	750	61	2.29	BK	29.16	3698	144.78	0.05	0.06	0.1247	535
664478	1000	61	2.29	BK	33.20	4982	165.10	0.04	0.05	0.1214	615

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