

1/C CU 600V Tray Rated LSZH RW90 VW-1 Cable SOLONONplus® Living Building Challenge™ (LBC) Red List Free

SOLONONplus® 600 Volt Single Conductor Copper Cross Linked Polyolefin Low Smoke Zero Halogen (XLPO LSZH) Insulation Type RW 90

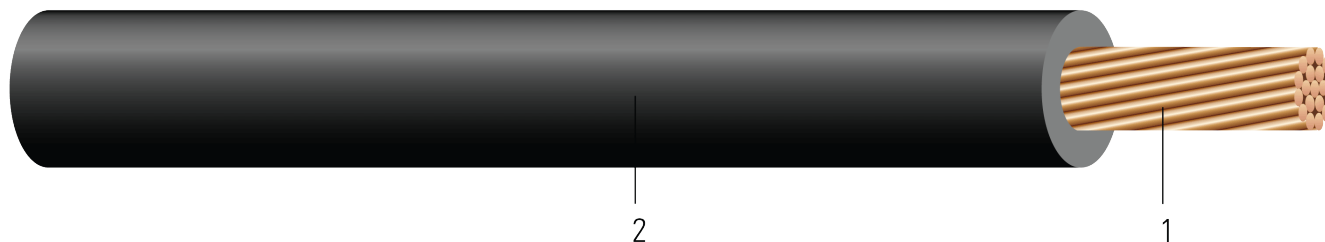


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** SOLONONplus® Cross Linked Polyolefin Low Smoke Zero Halogen (XLPO LSZH) Type RW 90 VW-1

APPLICATIONS AND FEATURES:

Southwire's 600 Volt SOLONONplus® Type RW 90 VW-1 cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial and aerially when supported by a messenger. These cables are ideal for use in establishments where low smoke and low acid emissions are desired for public safety and health and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions.

- a. The conductors are available in tinned and flexible copper stranding upon request.
- b. Color Available upon request
- c. Listed and marked CSA VW-1 for all sizes
- d. The halogen content is less than 0.2% and Acid gas less than 2.0%
- e. CSA listed for TC use on 1/0 and Larger. 70,000 BTU/Hr. Vertical Flame Test (CSA C22.2 NO. 2556)
- f. CSA listed FT4/IEEE 1202 and ST-1 (1/0 and larger)
- g. -40°C Cold impact and cold bend
- h. PRI Oil resistance I at 60°C & PRII Oil resistance II at 75°C
- i. GRI gasoline and oil resistance at 60°C
- j. GRII gasoline and oil resistance at 75°C
- k. REACH & RoHS compliant
- l. Listed and marked HAL-FREE (Halogen Free) per CSA 2556-15
- m. Living Building Challenge™ (LBC) Red List Free

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ASTM B170 Oxygen Free Electrolytic Copper (available upon request)
- CSA C22.2 No. 38 Thermoset-insulated wires and cables



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Southwire

**CABLETECH
SUPPORT™**

Services

- CSA C22.2 No.230 Tray Cables - Rated TC-ER (1/0 AWG and Larger)
- CSA C22.2 No. 2556 / UL 2556 Cable Test Methods
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- ICEA T-33-655/MIL-C-24643 Low Smoke Halogen Free (LSHF) Polymeric Jackets
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- ISO 9001 Quality management
- 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

SAMPLE PRINT LEGEND:

- 1/0 AWG and larger cables
SOUTHWIRE SOLONONplus (TM) LSZH XLPO 156205 {CSA} 1/0 AWG (XXX mm²) CU RW90 600V VW-1 HAL-FREE TC PRI
PRII GRII -40°C SR FT4 ST-1 {SEQUENTIAL METER MARKS} SEQ METERS [date code]

Table 1 – Physical and Electrical Data

Cond. Size AWG/kcmil	Strand Class	Strand Count No. of Strands	Cond. Cmil cmil	Insul. Thickness mil	Approx. OD inch	Approx. Weight lb/1000ft	DC Resistance @ 25°C Ω/1000ft	AC Resistance @ 75°C Ω/1000ft
14	B	7	4110	30	0.130	16	2.631	3.17
12	B	7	6530	30	0.148	25	1.662	2.002
10	B	7	10380	30	0.173	39	1.04	1.253
8	B	7	16510	45	0.231	63	0.653	0.786
6	B	7	26240	45	0.267	97	0.411	0.495
4	B	7	41740	45	0.315	147	0.258	0.31
3	B	7	52620	45	0.342	183	0.205	0.246
2	B	7	66360	45	0.372	228	0.162	0.195
1	B	19	83690	55	0.432	291	0.128	0.154
1/0	B	19	105600	55	0.471	362	0.102	0.122
2/0	B	19	133100	55	0.515	451	0.081	0.097
3/0	B	19	167800	55	0.566	564	0.064	0.078
4/0	B	19	211600	55	0.622	704	0.051	0.062
250	B	37	250000	65	0.688	837	0.043	0.053
350	B	37	350000	65	0.791	1158	0.031	0.039
500	B	37	500000	65	0.919	1634	0.022	0.029
600	B	61	600000	80	1.025	1976	0.018	0.025
750	B	61	750000	80	1.128	2453	0.014	0.022
1000	B	61	1000000	80	1.277	3244	0.011	0.018

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item



Stock Codes and Colors

Size	BLK	BRN	ORG	YLW	WHT	RED	BLU	GRN
1/0	678792	678795	678796	678798	678791	678793	678794	678790
2/0	678802	678806	678807	678808	678801	678803	678804	678800
3/0	678811	678815	678816	678817	678810	678812	678814	678809
4/0	678824	678827	678828	678829	678823	678825	678826	678822
250	678832	678835	678836	678837	678831	678833	678834	678830
350	678841	678844	678845	678846	678840	678842	678843	678838
500	678850	678853	678855	678856	678849	678851	678852	678848
600	678859	678863	678864	678865	678858	678860	678861	678857

