

SIS

Scope:

Single conductor, Type SIS, Type XHHW-2 VW-1 for 600 and 1000 volts or Type RW90 for use at 600 volts or less RoHS compliant. It is rated for a maximum continuous operating temperature between -40°C and 90°C in wet and 105°C in dry locations.

Applicable Standards and Tests:

- ASTM B-1, B-3, B-33, B-8, B-173 and B-174
- UL 44 and UL83
- CSA C22.2 No. 38-10
- NEC NFPA 70, NEC 310
- UL vertical flame test

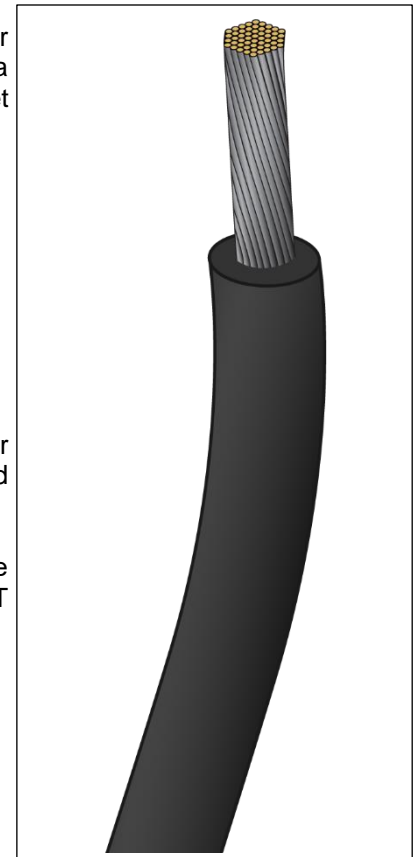
Construction:

Conductors: Single copper conductors as solid or stranded, annealed or hard, coated, or uncoated copper per UL and ASTM requirements. Tinned conductors are standard in SIS constructions.

Insulation: Gray XLP (crosslinked polyethylene) is "Oil and Gasoline Resistant II" is standard. All black insulation is rated "Sunlight Resistant". CT rating for 1/0 and larger sizes.

Identification and Packaging:

The wire shall be identified by surface marking indicating the manufacturer, conductor size, voltage rating, UL symbol, VW-1, and type designation. Standard length spools have 500 or 2500 feet. Custom lengths, non-standard colors, AWG, and custom packaging are available by request.



AWG	Standard Number of Strands	Optional Stranding	Insulation Thickness Mils	Ampacity *	Nominal Overall Diameter – Inches (standard strands)	Approx. Shipping Wgt. (Lbs./Mft.)
18**	16	-	30	-	0.11"	11
16**	26	-	30	-	0.12"	15
14	41	7, 19	30	25	0.13"/0.14"	21
12	65	7, 19	30	30	0.15"/0.16"	27
10	105	7, 19	30	40	0.17"/0.18"	40
8	133	7, 19	45	55	0.24"/0.25"	75
6	133	7, 19	45	75	0.28"/0.30"	115
4	133	7, 19	45	95	0.32"/0.34"	175
2	133	7, 19, 259	45	130	0.38"/0.40"	250
1	133	19, 37, 259	55	145	0.44"/0.46"	330
1/0	133	19, 37, 259	55	170	0.48"/0.52"	400
2/0	133	19, 37, 259	55	195	0.57"	471
3/0	133	19, 37, 259	55	225	0.64"	586
4/0	133	19, 37, 259	55	260	0.70"	730

*Ampacity is from NEC Article 310. Check with local codes authority for your guidance with your application.

**Non-UL product.

P: (315) 339 5268 • F: (315) 339-5277 • sales@kristechwire.com • www.kristechwire.com

Spec: SIS

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