SIMpull THHN®

600 Volts. AlumaFlex® Aluminum (AA-8176) Conductor, Thermoplastic Insulation/SIM Nylon Sheath, Heat, Moisture, Gasoline, and Oil Resistant II, Sunlight Resistant, Also Rated THWN-2. SIM Technology® for Easier Pulling



APPLICATIONS

Southwire SIMPULL THHN cable with AlumaFlex conductors are primarily used in conduit and cable trays for services, feeders, and branch circuits in commercial or industrial applications as specified in the 2011 National Electrical Code. When used as Type THHN, or T90 Nylon conductor is suitable for use in dry locations at temperatures not to exceed 90°C. When used as Type THWN-2 or TWN75, conductor is suitable for use in wet or dry locations at temperatures not to exceed 90°C or not to exceed 75°C when exposed to oil or coolant. Voltage for all applications is 600 volts. This cable should be installed without application of pulling lubricant.

SPECIFICATIONS

Southwire SIMPULL THHN conductors comply with:

- ASTM B-800 and B-801
- UL Standard 83
- CSA
- Federal Specification A-A-59544
- VW-1 Sizes 4 through 1 AWG
- CT Sizes 1/0 AWG and larger Sizes Rated for CT use.
- FT1 Sizes 4 AWG through 750 kcmil
- T90 Nylon Sizes 4 AWG through 750 kcmil
- TWN 75 Sizes 8 AWG through 750 kcmil
- NEMA WC-70 Construction Requirements
- National Electrical Code/NFPA 70, 2011 Edition
- RoHS/REACH Compliant

CONSTRUCTION

Southwire SIMPULL THHN conductors are AlumaFlex TM AA-8000 series aluminum alloy compact stranded. Insulated with a tough, heat and moisture resistant polyvinyl chloride (PVC), over which a SIM (SLIKQWIK[®] Infused Membrane) nylon (polyamide) or UL-listed equal jacket is applied. Phase conductors are available sizes 1/0 AWG-1000 kcmil in black, white, red, blue, brown, orange, yellow and gray. Grounds available sizes 4 AWG-900 kcmil in green. Conductor sizes 1/0 AWG and larger are listed and marked sunlight resistant in colors. Colors available on 2 awg and larger, some are subject to economic order quantity.





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SIMPULL THHN® Cable with ALUMAFLEX® Conductors

Conductor		Insulation Thickness	Jacket Thickness	Nominal O.D.	Approx. Net Weight Per	Allowable Ampacities+			Standad Package
Size (AWG or kcmil)	Number of Strands	(mils)	(mils)	(mils	1000' (lbs.) [.]	60°C	75°C	90°C	
8	7	30	5	204	27	35	40	45	В
6	7	30	5	239	38	40	50	60	С
4	7	40	6	305	62	55	65	75	BCD
2	7	40	6	360	91	75	90	100	BC
1	18	50	7	413	117	85	100	115	BC
1/0	18	50	7	450	141	100	120	135	BCD
2/0	18	50	7	490	172	115	135	150	BCD
3/0	18	50	7	537	210	130	155	175	BCD
4/0	18	50	7	589	257	150	180	205	BCD
250	22	60	8	656	311	170	205	230	ABC
300	35	60	8	706	365	190	230	255	BC
350	35	60	8	752	418	210	250	280	BC
400	35	60	8	795	471	225	270	305	BC
500	35	60	8	872	576	260	310	350	BC
600	58	70	9	971	700	285	340	385	BC
700	58	70	9	1035	804	310	375	420	
750	58	70	9	1066	856	320	385	435	ABC
900	58	70	9	1139	1013	355	425	480	
1000	58	70	9	1218	1117	375	445	500	
Section 310 Jnless the e ollowing pe 50 °C - Whe conductors. 75 °C - Whe AWG. 90 °C - T	.15 and 240.4 equipment is r r NEC 110.14 en terminated en terminated	4(D). marked for us 4(C). to equipmen to equipmen	se at higher t t for circuits t for circuits	emperatures rated 100 an	by the Nation s the conducton nperes or less 00 amperes of tions for am	or ampacities s or marked t or marked for	s shall be lim for 14 throug [.] conductors	hited to the h 1 AWG larger than 1	Package Codes A– 500' B– 2500' C– 1000' D– 5000'

RECOMMENDED SAMPLE SPECIFICATIONS:

Conductors shall be UL-listed Type THHN and THWN-2, suitable for operation at 600 volts, as specified in the National Electrical Code. Sizes 8 through 1 AWG shall be rated VW-1, larger sizes shall be rated for CT Use. Conductors shall be AlumaFlex aluminum alloy, insulated with high-heat and moisture resistant PVC, jacketed with abrasion, moisture, gasoline, and oil resistant nylon or UL-listed equivalent as manufactured by Southwire Company or approved equal.





