

SIMpull THHN® Cable

600 Volts. Copper Conductor
Thermoplastic Insulation/SIM Nylon Sheath
Heat, Moisture, Gasoline, and Oil Resistant 1
Also Rated MTW and THWN-2
SIM Technology® for easier pulling



APPLICATIONS

Southwire SIMpull THHN® or THWN-2 conductors are primarily used in conduit and cable trays for services, feeders, and branch circuits in commercial or industrial applications as specified in the National Electrical Code². 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. When used as Type MTW, conductor is suitable for use in wet locations or when exposed to oil or coolant at temperatures not to exceed 60 °C or dry locations at temperatures not to exceed 90 °C (with ampacity limited to that for 75 °C conductor temperature per NFPA 79). Voltage for all applications is 600 volts. This cable may be installed without the need for pulling lubricant.

SPECIFICATIONS

Southwire SIMpull THHN® or THWN-2 or MTW (also AWM) meets or exceeds all applicable ASTM specifications, UL Standard 83, UL 1581, UL Standard 1063 (MTW), CSA, NOM-ANCE 90(D)C Federal Specification A-A-59544, and requirements of the National Electrical Code.

- VW-1 - Sizes 14 through 1 AWG
- CT - UL 1685, Sizes 1/0 AWG and larger for CT use.
- FT1 - Sizes through 500 kcmil
- T90 Nylon - Sizes through 500 kcmil
- TWN 75 - Sizes through 500 kcmil
- RoHS Compliant
- Sunlight Resistant - Colors available in sizes 2 AWG and larger

CONSTRUCTION

Southwire SIMpull THHN® or THWN-2 or MTW copper conductors are annealed (soft) copper, compressed strand, 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. Available in black, white, red, blue, green, yellow, brown, orange, and gray. Some colors standard, some subject to economic order quantity. Conductor sizes 2 AWG and larger listed and marked sunlight resistant in all colors.

¹ Oil and gasoline resistant II as defined by Underwriters Laboratories.

² 2008 Edition.



NoLube™

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SIMPull THHN

Conductor		Insulation Thickness (mils)	Jacket Thickness (mils)	Nominal O.D. (mils)	Approx. Net Weight Per 1000 ft. (lbs.)	Allowable Ampacities+			Standard Package
Size (AWG or kcmil)	Num. Strands					60 °C	75 °C	90 °C	
14**	19	15	4	109	16	15	15	15	DNF
12**	19	15	4	128	24	20	20	20	DNF
10**	19	20	4	161	38	30	30	30	DQF
8	19	30	5	213	63	40	50	55	F
6	19	30	5	249	95	55	65	75	E
4	19	40	6	318	152	70	85	95	C
3	19	40	6	346	189	85	100	110	BC
2	19	40	6	378	234	95	115	130	C
1	19	50	7	435	299	110	130	150	B
1/0	19	50	7	474	372	125	150	170	B
2/0	19	50	7	518	462	145	175	195	B
3/0	19	50	7	568	575	165	200	225	B
4/0	19	50	7	624	718	195	230	260	B
250	37	60	8	694	851	215	255	290	B
300	37	60	8	747	1012	240	285	320	B
350	37	60	8	797	1174	260	310	350	B
400	37	60	8	842	1334	280	335	380	B
500	37	60	8	926	1655	320	380	430	B
600	61	70	9	1024	1987	355	420	475	C
750	61	70	9	1126	2464	400	475	535	C
1000	61	70	9	1275	3254	455	545	615	C

**Sizes 14 - 10 AWG not available with patented SIM Technology® No Lube® jacket.
 Sizes 1 and larger available with patented SIM Technology®.
 + Allowable ampacities shown are for general uses as specified by the National Electrical Code, 2008 Edition, section 310.15 unless the equipment is marked for use at higher temperatures the conductor ampacity shall be limited to the following.
 60 °C - When terminated to equipment for circuits rated 100 amperes or less or marked for size 14 through 1 AWG conductors. MTW wet locations or when exposed to oil or coolant.
 75 °C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than size 1 AWG.
 THWN-2 when exposed to oil or coolant. MTW dry locations.
 90 °C - THHN dry locations. THWN-2 wet or dry locations. For ampacity derating purposes.

STANDARD PACKAGE CODES:
 B - 1000 ft. reel
 C - 500 ft. reel
 D - 2500 ft. spool
 E - 1000 ft. spool
 F - 500 ft. spool
 N - 2000 ft. carton
 Q - 350 ft. carton

Sizes 8 AWG - 2 AWG are made in SIM green only.



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