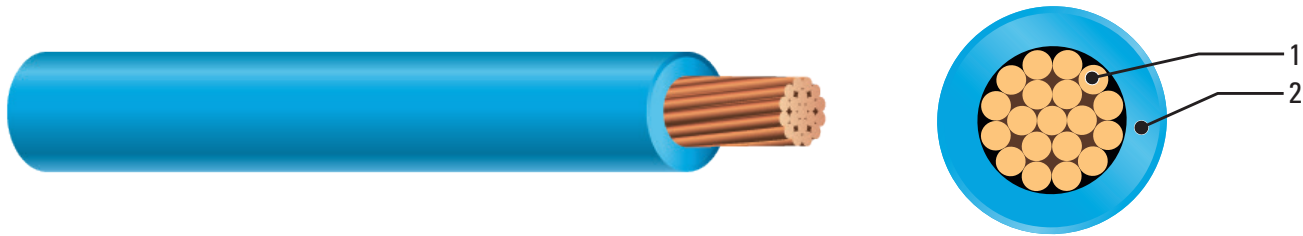


SIMpull® THHN THWN-2 MTW / c(UL) T90 Nylon TWN75

Copper Conductor, 600V, Thermoplastic-Insulated Cable, All Sizes Rated TWN75



CONSTRUCTION:

Southwire's SIMpull® THHN, THWN-2, MTW cables are manufactured with annealed (soft) copper conductor and a tough, heat and moisture-resistant thermoplastic polyvinyl chloride (PVC) / Nylon insulation. Sizes AWG 14 (19) through AWG 4/0 (19) are manufactured using combination unilay stranding; all other stranded sizes are manufactured using compressed stranding.

1. Copper Conductor
2. SIMpull® Insulation

CONDUCTOR COLOURS:



- Construction is available in black, white, red, blue, green, yellow, brown, orange and gray. Some colours are subject to economic order quantity.

APPLICATIONS & FEATURES:

SIMpull® THHN, THWN-2, MTW - (UL) - suitable for dry locations not exceeding 90°C. For Gasoline and Oil Resistant II applications not to exceed 75°C. MTW (UL) - suitable for dry locations not exceeding 90°C. For wet locations, Gasoline and Oil Resistant II applications not to exceed 60°C. T90 Nylon c(UL) - cables are primarily intended for installation in conduit (raceways) as exposed wiring in dry locations not exceeding 90°C. TWN75 c(UL) - suitable for wet or dry locations at not more than 75°C. The maximum voltage rating for all intended applications is 600 volts. Minimum installation handling temperature is limited to -25°C. Minimum operating temperature limited to -40°C.

SPECIFICATIONS:

Southwire's SIMpull® THHN, THWN-2, MTW cables meet or exceed the following requirements:

- ASTM B3, B8 and B787
- Built to CSA C22.2 No.75, LL90458
- -25°C Cold Bend Test Compliant
- 2018 Canadian Electrical Code
- CSA FT-1 - Flame Test
- UL, c(UL) and CSA listed
- RoHS/REACH Compliant



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SPS_195_ELECTRICAL-E(17-07) Rev 5.1

SPECIFICATIONS

Conductor		Insulation Thickness		Jacket Thickness		Cable Dimensions		Approx. Weight		Allowable Ampacity* (Amps) 30°C Ambient		
Size (AWG or kcmil)	# of Strands	inches	mm	inches	mm	inches	mm	lb/1000ft	kg/km	60°C	75°C	90°C
14**	1	0.015	0.38	0.004	0.10	0.102	2.59	15	23	15	20	25
12**	1	0.015	0.38	0.004	0.10	0.119	3.02	23	34	20	25	30
10**	1	0.020	0.51	0.004	0.10	0.150	3.81	37	55	30	35	40
14**	19	0.015	0.38	0.004	0.10	0.109	2.77	15	23	15	20	25
12**	19	0.015	0.38	0.004	0.10	0.128	3.25	24	36	20	25	30
10**	19	0.020	0.51	0.004	0.10	0.161	4.09	38	57	30	35	40
8	19	0.030	0.76	0.005	0.13	0.213	5.41	63	93	40	50	55
6	19	0.030	0.76	0.005	0.13	0.249	6.32	95	141	55	65	75
4	19	0.040	1.02	0.006	0.15	0.318	8.08	152	227	70	85	95
3	19	0.040	1.02	0.006	0.15	0.346	8.79	189	281	85	100	115
2	19	0.040	1.02	0.006	0.15	0.378	9.60	234	349	95	115	130
1	19	0.050	1.27	0.007	0.18	0.435	11.0	299	446	110	130	145
1/0	19	0.050	1.27	0.007	0.18	0.474	12.0	372	553	125	150	170
2/0	19	0.050	1.27	0.007	0.18	0.518	13.2	462	687	145	175	195
3/0	19	0.050	1.27	0.007	0.18	0.568	14.4	575	856	165	200	225
4/0	19	0.050	1.27	0.007	0.18	0.624	15.8	718	1068	195	230	260
250	37	0.060	1.52	0.008	0.20	0.694	17.6	851	1266	215	255	290
300	37	0.060	1.52	0.008	0.20	0.747	18.9	1012	1506	240	285	320
350	37	0.060	1.52	0.008	0.20	0.797	20.2	1174	1747	260	310	350
400	37	0.060	1.52	0.008	0.20	0.842	21.4	1334	1985	280	335	380
500	37	0.060	1.52	0.008	0.20	0.926	23.5	1655	2462	320	380	430
600	61	0.070	1.78	0.009	0.23	1.024	26.0	1987	2957	350	420	475
750	61	0.070	1.78	0.009	0.23	1.126	28.6	2464	3667	400	475	535
1000	61	0.070	1.78	0.009	0.23	1.275	32.4	3257	4847	455	545	615

* Allowable ampacities are for general use as specified by the Canadian Electrical Code, Part 1, 2015, Table 2

** These ampacities must be in compliance with rule 14-104(2) of the Canadian Electrical Code, Part 1, 2015