

## TYPE THWN OR THHN — PVC INSULATION, NYLON JACKET, 600 VOLT

### Construction

#### Conductor:

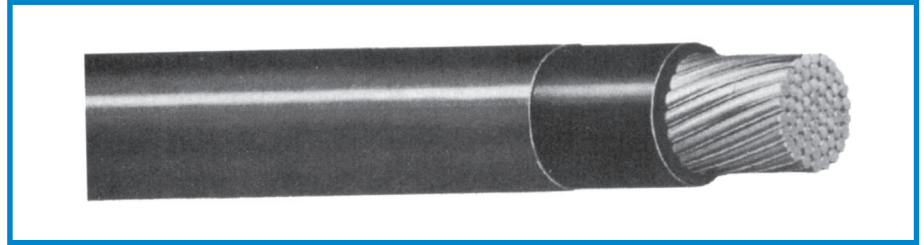
- Annealed uncoated copper conductor, PVC insulation, nylon jacket, surface printed.

#### Applications:

- General purpose wiring in accordance with the NEC, maximum conductor temperature of 90°C in dry locations and 75°C in wet locations, 600 volts, for installation in conduit or other recognized raceway.
- Also used for wiring of machine tools (stranded), appliances, and control circuits not exceeding 600 volts.

#### Industry Approvals:

- Listed by UL as type THHN or THWN per Standard 83, and as Type MTW per Standard 1063 (stranded items).
- Listed by UL as Gasoline and Oil Resistant II.
- Listed by UL as Sunlight Resistant (1/0 AWG and larger, black only).
- 1/0 AWG and larger pass UL and IEEE-383 ribbon burner flame test and are listed for CT Use.
- Listed by UL as 105°C Appliance Wiring Material, 80°C where exposed to oil.
- Conforms to Federal Specification J-C-30B.



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CUSTOM CATALOG NUMBER	SIZE		NOM. INSUL. THICKNESS (INCHES)		NOMINAL O.D. INCHES	CURRENT (AMPS*)		NOMINAL WEIGHT LBS/MFT
	AWG/MCM	STRAND	PVC. INSUL.	NYLON JACKET		75°C THWN	90°C THHN	
<b>SOLID (THWN OR THHN) (TFN 18 &amp; 16 SOLID)</b>								
15047	18	Solid	0.015	0.004	0.082	**6	**6	7
15049	16	Solid	0.015	0.004	0.093	**8	**8	11
15050	14	Solid	0.015	0.004	0.110	20 <sup>†</sup>	25 <sup>†</sup>	17
15051	12	Solid	0.015	0.004	0.130	25 <sup>†</sup>	30 <sup>†</sup>	25
15052	10	Solid	0.020	0.004	0.160	35 <sup>†</sup>	40 <sup>†</sup>	39
<b>STRANDED (MTW OR THWN OR THHN) (TFN 18 &amp; 16 STR)</b>								
15048	18 <sup>1</sup>	16	0.015	0.004	0.090	**6	**6	8
15053	16 <sup>1</sup>	26	0.015	0.004	0.100	—	10 <sup>†</sup>	12
15054	14	19	0.015	0.004	0.120	20 <sup>†</sup>	25 <sup>†</sup>	18
15055	12	19	0.015	0.004	0.140	25 <sup>†</sup>	30 <sup>†</sup>	26
15056	10	19	0.020	0.004	0.170	35 <sup>†</sup>	40 <sup>†</sup>	41
15057	8	19	0.030	0.004	0.230	50	55	71
15058	6	19	0.030	0.005	0.250	65	75	99
15059	4	19	0.040	0.006	0.330	85	95	168
15060	3	19	0.040	0.006	0.360	100	110	204
15061	2	19	0.040	0.006	0.390	115	130	254
15062	1	19	0.050	0.007	0.450	130	150	319
15063	1/0	19	0.050	0.007	0.500	150	170	395
15064	2/0	19	0.050	0.007	0.540	175	195	485
15065	3/0	19	0.050	0.007	0.600	200	225	600
15066	4/0	19	0.050	0.007	0.660	230	260	745
15067	250	37	0.060	0.008	0.720	255	290	905
15068	300	37	0.060	0.008	0.770	285	320	1060
15069	350	37	0.060	0.008	0.830	310	350	1225
15070	400	37	0.060	0.008	0.870	335	380	1380
15071	500	37	0.060	0.008	0.960	380	430	1725
15072	600	61	0.070	0.009	1.060	420	475	2090
15074	750	61	0.070	0.009	1.170	475	535	2580
15075	1000	61	0.070	0.009	1.320	545	615	3430

\* Ampacity in accordance with NEC for not more than three conductors in raceway. As THHN: 90°C conductor temperature and 30°C ambient in dry locations. As THWN: 75°C conductor temperature and 30°C ambient in wet or dry locations.

\*\* TFN, TFFN when used as a fixture wire is limited to these ampacities per Article 402-5 in 1996 NEC.

† The over current protection shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG and 30 amperes for 10 AWG copper.

1 Not listed as THHN - only as 105°C AWM - 90°C MTW.



# Custom Cable Corp.