

THWN - THHN - MTW Building Wire

600 Volt | 90°C Dry - 75°C Wet

UL listed | NEC Article 310 | VW-1 rated



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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

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 Specifications J-C-30B.

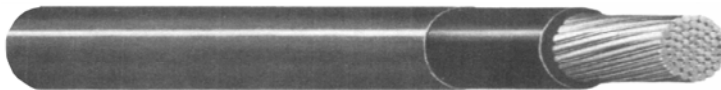
Jacket PVC insulation, nylon jacket, surface printed.
 THHN: 90°C dry and damp, 600V | THWN: 75°C dry, wet or in oil, 600V | MTW: 90°C dry, 80°C in oil, 600V.

Conductor Annealed **uncoated** copper conductor.

Features VW-1 rated through 4/0 AWG | Gasoline and Oil resistant II | Resistant to abrasion, acids, alkalines, ozone and water.

Industry Standards

UL Standard 83 THWN - THHN | UL MTW 1063
NEMA WC-5 - ICEA S-61-402 | OSHA acceptable
NFPA 70 (NEC) | NFPA 79 AWM 600V, 105°C (75°C in oil)



Passes UL VW-1 Flame Test



SOLID (THWN or THHN | TFN 18 & 16 solid)

Size		Nominal Insulation Thickness (inches)		Nominal O.D. INCHES	Current (Amps*)		Nominal Weight LBS MFT	Ident-Nr.
AWG	STRAND	PVC INSUL.	NYLON JACKET		75°C THWN	90°C THHN		
18	solid	0,015	0,004	0,082	** 6	** 6	7,0	THWN 15047
16	solid	0,015	0,004	0,093	** 8	** 8	11,0	THWN 15049
14	solid	0,015	0,004	0,110	20 †	25 †	17,0	THWN 15050
12	solid	0,015	0,004	0,130	25 †	30 †	25,0	THWN 15051
10	solid	0,020	0,004	0,160	35 †	40 †	39,0	THWN 15052

STRANDED (THWN or THHN or MTW | TFFN 18 & 16 stranded)

Size		Nominal Insulation Thickness (inches)		Nominal O.D. INCHES	Current (Amps*)		Nominal Weight LBS MFT	Ident-Nr.
AWG	STRAND	PVC INSUL.	NYLON JACKET		75°C THWN	90°C THHN		
18 ¹	16	0,015	0,004	0,090	** 6	** 6	8,0	THWN 15048
16 ¹	26	0,015	0,004	0,100	---	10 †	12,0	THWN 15053
14	19	0,015	0,004	0,120	20 †	25 †	18,0	THWN 15054
12	19	0,015	0,004	0,140	25 †	30 †	26,0	THWN 15055
10	19	0,020	0,004	0,170	35 †	40 †	41,0	THWN 15056
8	19	0,030	0,004	0,230	50	55	71,0	THWN 15057
6	19	0,030	0,005	0,250	65	75	99,0	THWN 15058
4	19	0,040	0,006	0,330	85	95	168,0	THWN 15059
3	19	0,040	0,006	0,360	100	110	204,0	THWN 15060
2	19	0,040	0,006	0,390	115	130	254,0	THWN 15061
1	19	0,050	0,007	0,450	130	150	319,0	THWN 15062
1/0	19	0,050	0,007	0,500	150	170	395,0	THWN 15063
2/0	19	0,050	0,007	0,540	175	195	485,0	THWN 15064
3/0	19	0,050	0,007	0,600	200	225	600,0	THWN 15065
4/0	19	0,050	0,007	0,660	230	260	745,0	THWN 15066

* 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 1196 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.