

THHN-THWN COPPER CONDUCTOR

STANDARDS

Underwriters' Laboratories UL 83 • Federal Specification JC-30A • Gasoline and Oil Resistant II (UL) • NEMA WC 70/ICEA S-95-658

SIZE (AWG)	NUMBER OF STRANDS	INSULATION THICKNESS IN MILS		APPROX. O. D. INCHES	AMPACITY (1)		APPROX. WEIGHT PER 1000 FT. IN POUNDS
		PVC	Nylon		75°C	90°C	
14	SOLID	15	4	.11	+20	+25	16
12	SOLID	15	4	.13	+25	+30	24
10	SOLID	20	4	.16	+30	+40	37
14	19	15	4	.11	+20	+25	17
12	19	15	4	.13	+25	+30	25
10	19	20	4	.16	+35	+35	39
8	19	30	5	.21	50	55	65
6	19	30	5	.27	65	75	98
4	19	40	6	.34	85	95	157
3	19	40	6	.36	100	110	191
2	19	40	6	.40	115	130	240
1	19	50	7	.46	130	150	305
1/0	19	50	7	.50	150	170	379
2/0	19	50	7	.55	175	195	470
3/0	19	50	7	.60	200	225	584
4/0	19	50	7	.66	230	260	728
250	37	60	8	.73	255	290	866
300	37	60	8	.78	285	320	1030
350	37	60	8	.83	310	350	1193
400	37	60	8	.88	335	380	1354
500	37	60	8	.97	380	430	1679
600MCM	61	70	9	1.07	420	475	2013
750MCM	61	70	9	1.14	475	535	2498



(1) Based on not more than 3 conductors in Raceway or cable or direct burial (30°C, 86°F Ambient per NEC). 75°C conductor temperature rating.

1. +The overcurrent protection for conductor types marked with (+) shall not exceed 15 AMPS for 14 AWG, and 20 AMPS for 12 AWG per the NEC-84 Table 310-16.

Stock colors and packaging information available upon request.

SPECIFICATIONS

Sunlight Resistance, VW-1, THWN-2 (All Sizes and Colors), CT USE (1/0 and larger), CUL-Type T90, Lead Free - ROHS Compliant

APPLICATION NOTES

Type THHN-THWN Building Wire is intended for general purpose applications and may be installed in conduit, duct, or other recognized raceways in wet (60°C oil/75°C water) or dry (90°C) locations. For both new work and rewiring applications, the smaller diameter of the wire permits additional circuits or larger conductors to be installed in the conduit without exceeding maximum fill limitations. The insulation is a high quality, heat and moisture resistant polyvinyl chloride compound over which a heat and light stabilized nylon jacket is tightly applied.



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