



POWER KABEL INC.

THHN/THWN-2 COPPER CONDUCTOR

APPLICATIONS & FEATURES

Type THHN-THWN-2 building wire is intended for general purpose applications and may be installed in conduit, duct, or other recognized raceways in wet (60oC oil/90oC water) or dry (105oC) locations. For both new work and rewiring applications, the smaller diameter of 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.

INDUSTRY COMPLIANCES

- Underwriters' Laboratories UL 83 UL 1581
- Federal Specification JC-30A
- Gasoline and Oil Resistant II (UL)
- NEMA WC 70/ICEA S-95-658
- Sunlight Resistance, Gasoline and oil resistant II, VW-1, THWN-2 or THHN or MTW (all sizes & colors), CT USE (1/0 and larger), C (UL)-Type /T90 or TWN 75, Lead Free-ROHS Compliant, 600V

CONSTRUCTION	
CONDUCTORS:	Stranded, uncoated, bare copper per ASTM B787 and ASTM B8
INSULATION:	high quality, heat and moisture resistant polyvinyl chloride compound

AWG	No OF STRANDS	APPROX. O.D. INCHES	INSULATION THICKNESS		AMPACITY @ 90°C	WEIGHT/1000 FT
			PVC (MILS)	NYLON (MILS)		
14	SOLID	0.11	15	0.004	25	16
12	SOLID	0.13	20	0.004	30	24
10	SOLID	0.16	15	4	40	37
14	19	0.11	15	4	25	17
12	19	0.13	20	4	30	25
10	19	0.16	30	4	35	39
8	19	0.21	30	4	55	65
6	19	0.27	40	4	75	98
4	19	0.34	40	5	95	157
3	19	0.36	40	5	110	191
2	19	0.4	50	6	130	240
1	19	0.46	50	6	150	305
1/0	19	0.5	50	6	170	379
2/0	19	0.55	50	7	195	470
3/0	19	0.6	50	7	225	584
4/0	19	0.66	50	7	260	728
250	37	0.73	60	8	290	866
300	37	0.78	60	8	320	1030
350	37	0.83	60	8	350	1193
400	37	0.88	60	8	380	1354
500	37	0.97	60	8	430	1679
600	61	1.07	60	9	475	2013
750	61	1.14	30	9	535	2498

1. Based on not more than 3 conductors in Raceway or cable or direct burial (30oC, 86oF Ambient per NEC). 75oC conductor temperature rating.
 2. The overcurrent protection for conductor types marked with (+) shall not exceed 15 AMPS for 14 AWG, and 20 AMPS for 12