

Copper THHN/THWN-2 600V



APPLICATION:

Copper THHN/THWN-2 conductors are primarily used in conduit and cable trays, when approved, for services, feeders and branch circuits in commercial or industrial applications as specified in the National Electric Code. THHN applications are suitable for use in dry locations only at temperatures not to exceed 90°C. THHN-2 applications are suitable for use in either wet or dry applications, with temperatures that do not exceed 90°C.

CONDUCTORS:

- Either solid or stranded soft drawn copper, per ASTM Standards

INSULATION:

- Heat and moisture resistant colored polyvinyl chloride (PVC) insulation, with a clear nylon (polyamide) or UL-listed equal jacket, which provides abrasion resistance

STANDARDS:

- UL 83
- UL VW-1
- Size 1/0 & larger suitable for cable tray use
- MTW per UL 1063
- ASTM B1, B3, B8
- Federal Spec A-A-59544

Part Number	Conductor Size	No. of Strands	Insulation Thickness		Insulation Thickness		Overall Diameter		Net Weight	Ampacity*
	AWG/kcmil		inches	mm	inches	mm	inches	mm	lbs/kft	amps
14SOLTHHN	14	Solid	0.015	0.38	0.004	0.10	0.110	2.79	16	25
14THHN	14	19	0.015	0.38	0.004	0.10	0.120	3.05	16	25
12SOLTHHN	12	Solid	0.015	0.38	0.004	0.10	0.130	3.30	24	30
12THHN	12	19	0.015	0.38	0.004	0.10	0.140	3.56	25	30
10SOLTHHN	10	Solid	0.020	0.51	0.004	0.10	0.160	4.06	38	40
10THHN	10	19	0.020	0.51	0.004	0.10	0.170	4.32	39	40
8THHN	8	19	0.030	0.76	0.004	0.10	0.230	5.84	66	55
6THHN	6	19	0.030	0.76	0.005	0.13	0.250	6.35	98	75
4THHN	4	19	0.040	1.02	0.006	0.15	0.330	8.38	155	95
3THHN	3	19	0.040	1.02	0.006	0.15	0.360	9.14	190	115
2THHN	2	19	0.040	1.02	0.006	0.15	0.390	9.91	235	130
1THHN	1	19	0.050	1.27	0.007	0.18	0.450	11.43	300	145
1/0THHN	1/0	19	0.050	1.27	0.007	0.18	0.500	12.70	370	170
2/0THHN	2/0	19	0.050	1.27	0.007	0.18	0.540	13.72	460	195
3/0THHN	3/0	19	0.050	1.27	0.007	0.18	0.600	15.24	570	225
4/0THHN	4/0	19	0.050	1.27	0.007	0.18	0.660	16.76	710	260
250THHN	250	37	0.060	1.52	0.008	0.20	0.720	18.29	845	290
300THHN	300	37	0.060	1.52	0.008	0.20	0.766	19.46	985	320
350THHN	350	37	0.060	1.52	0.008	0.20	0.830	21.08	1,165	350
400THHN	400	37	0.060	1.52	0.008	0.20	0.864	21.95	1,296	380
500THHN	500	37	0.060	1.52	0.008	0.20	0.960	24.38	1,640	430
600THHN	600	61	0.070	1.78	0.009	0.23	1.051	26.70	1,934	475
750THHN	750	61	0.070	1.78	0.009	0.23	1.170	29.72	2,480	520
1000THHN	1000	61	0.070	1.78	0.009	0.23	1.320	33.53	3,300	615

All values are nominal and subject to correction.

*90°C Wet/Dry Per NEC Table 310.15 (B)(16) for not more than three conductors in raceway based on 30°C ambient temperature.



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