

Wire - Type THHN

Applications

Type THHN building wire is intended for general purpose applications as defined by the National Electrical Code (NEC). Type THHN is permitted for new construction or rewiring for 600-volt applications. For applications requiring Type THHN, the conductor is appropriate for use in wet or dry locations at temperatures not to exceed 90°C or not to exceed 75°C in oil or coolants. Slick nylon outer jacket for easy pulling. All sizes rated gasoline and oil resistant II. THHN wire 6AWG and larger Sunlight Resistant in all colors.

THHN wire is sold in 500 foot spools; certain sizes are also available in 2500 foot reels.



Features

Conductors

Stranded, uncoated copper conductors per ASTM-B3, ASTM-B787 and ASTM-B8

Insulation

Color-coded Polyvinyl Chloride (PVC), heat and moisture-resistant, flame-retardant compound per UL-1063 and UL-83

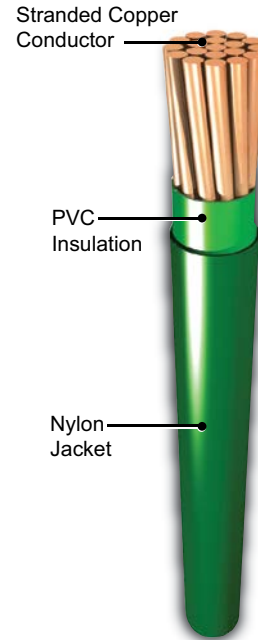
Jacket

A tough, polyamide, Nylon outer covering per UL-1063 and UL-83

Standards

- UL Standards UL-83, UL-1063, UL-758
- AWM Spec 1316, 1317, 1318, 1319, 1320, 1321
- ASTM Stranding Class B3, B8, B787
- Federal Specification A-A-59544
- Canadian Standards Association C22.2 No. 75
- NEMA WC70/ICEA S-95-658
- ICEA T-29-520 (210,000 Btu/hr) Flame Test
- ARRA 2009; Section 1605 "Buy American" Compliant
- RoHS

Type THHN Wire



Type THHN Wire Specifications

Size (AWG or kcmil)	Number of Strands	Cross-sectional Area (mm ²)	Insulation Thickness (inches)		Overall Outside Diameter		Allowable Ampacities*			Approximate Weight (lbs) 500'/2500'	Standard Packaging spool/reel
			PVC	Nylon	(inches)	(mm)	60°C	75°C	90°C		
14	19	6.258	0.015	0.004	0.109	2.77	15	20	25	7.8 / 42.2	500' or 2500'. Some colors not offered in 2500' reel.
12	19	8.581	0.015	0.004	0.127	3.23	20	25	30	11.7 / 61.4	
10	19	13.61	0.015	0.004	0.160	4.07	30	35	40	18.7	500'
8	19	23.61	0.030	0.005	0.212	5.39	40	50	55	31.4	
6	19	32.71	0.030	0.005	0.248	6.30	55	65	75	48.5	
4	19	53.16	0.040	0.006	0.317	8.06	70	85	95	75.4	

*Note: Allowable ampacity shown above is per the National Electric Code. The above data is approximate and subject to normal manufacturing tolerances.

Please Note: Our prices on wire are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.

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Part Number	Insulation Color	Gauge	Description	Spool/Reel Length	Approx. Weight	Price
THHN14BK	Black	14AWG	Type THHN wire, bare copper, 19 strands, 600 Volts		7.8 lbs	
THHN14WH	White					
THHN14RD	Red					
THHN14BL	Blue					
THHN14GN	Green					
THHN14YL	Yellow					
THHN14OR	Orange					
THHN14BN	Brown					
THHN14PL	Purple					
THHN14GY	Gray					
THHN14GYL	Green with Yellow spiral stripe					
THHN14BW	Blue with White spiral stripe					
THHN12BK	Black	12AWG	Type THHN wire, bare copper, 19 strands, 600 Volts	500'	11.7 lbs	
THHN12WH	White					
THHN12RD	Red					
THHN12BL	Blue					
THHN12GN	Green					
THHN12YL	Yellow					
THHN12OR	Orange					
THHN12BN	Brown					
THHN12GY	Gray					
THHN12GYL	Green with Yellow spiral stripe					
THHN10BK	Black	10AWG	Type THHN wire, bare copper, 19 strands, 600 Volts		18.7 lbs	
THHN10WH	White					
THHN10GN	Green					
THHN10YL	Yellow					
THHN10OR	Orange					
THHN10BN	Brown					
THHN10GYL	Green with Yellow spiral stripe					
THHN8BK	Black	8AWG	Type THHN wire, bare copper, 19 strands, 600 Volts		31.4 lbs	
THHN8GN	Green					
THHN8GYL	Green with Yellow spiral stripe					
THHN6BK	Black	6AWG	Type THHN wire, bare copper, 19 strands, 600 Volts		48.5 lbs	
THHN4BK	Black	4AWG	Type THHN wire, bare copper, 19 strands, 600 Volts		75.4 lbs	

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Part Number	Color	Gauge	Description	Spool/Reel Length	Approx. Weight	Price
THHN12WH25	White	12AWG	Type THHN wire, bare copper, 19 strands, 600 Volts	2500'	61.4 lbs	
THHN12BL25	Blue					

Gauge Conversion Table

American Wire Gauge Conversion Chart*			
This cross reference shows equivalent nominal values. Actual cross sections may vary.			
AWG	mm2	AWG	mm2
30	0.05	6	16
28	0.08	4	25
26	0.14	2	35
24	0.25	1	50
22	0.34	1/0	55
21	0.38	2/0	70
20	0.50	3/0	95
18	0.75	4/0	120
17	1.00	300MCM	150
16	1.50	350MCM	185
14	2.50	500MCM	240
12	4	600MCM	300
10	6	750MCM	400
8	10	1000MCM	500

*Note: Table shows commercially used equivalent values.