

Wire - Type THHN/THWN-2

Applications

Type THHN/THWN-2 building wire is intended for general purpose applications as defined by the National Electrical Code (NEC). Type THHN/THWN-2 is permitted for new construction or rewiring for 600-volt applications. For applications requiring Type THHN/THWN-2, 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/THWN-2 wire 6AWG and larger Sunlight Resistant in all colors.

THHN wire is sold in 500 foot spools.



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

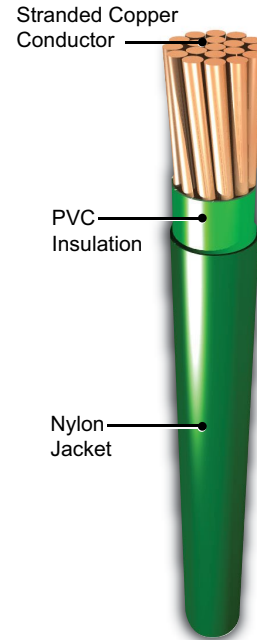
Jacket

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

Standards

- UL Standards UL-83, UL-1063, UL-1581, UL-1685, UL-2556
- 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/THWN-2 Wire



Type THHN/THWN-2 Wire Specifications

Size (AWG or kcmil)	Number of Strands	mm ² Equivalent	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	2.5	6.258	0.015	0.004	0.109	2.77	15	20	25	7.8 / 42.2	500'
12	19	4	8.581	0.015	0.004	0.127	3.23	20	25	30	11.7 / 61.4	
10	19	6	13.61	0.015	0.004	0.160	4.07	30	35	40	18.7	
8	19	10	23.61	0.030	0.005	0.212	5.39	40	50	55	31.4	
6	19	16	32.71	0.030	0.005	0.248	6.30	55	65	75	48.5	
4	19	25	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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Type THHN/THWN-2 Wire						
Part Number	Insulation Color	Gauge	Description	Spool/Reel Length	Approx. Weight	Price
THHN14BK	Black	14AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	500'	7.8 lbs	\$114.00
THHN14WH	White					\$114.00
THHN14RD	Red					\$114.00
THHN14BL	Blue					\$114.00
THHN14GN	Green					\$114.00
THHN14YL	Yellow					\$114.00
THHN14OR	Orange					\$114.00
THHN14BN	Brown					\$114.00
THHN14PL	Purple					\$114.00
THHN14GY	Gray					\$114.00
THHN14GYL	Green with Yellow spiral stripe					\$114.00
THHN14BW	Blue with White spiral stripe					\$114.00
THHN12BK	Black					12AWG
THHN12WH	White	\$170.00				
THHN12RD	Red	\$170.00				
THHN12BL	Blue	\$170.00				
THHN12GN	Green	\$170.00				
THHN12YL	Yellow	\$170.00				
THHN12OR	Orange	\$170.00				
THHN12BN	Brown	\$170.00				
THHN12GY	Gray	\$170.00				
THHN12GYL	Green with Yellow spiral stripe	\$186.00				
THHN10BK	Black	10AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	500'	18.7 lbs	\$259.00
THHN10WH	White					\$259.00
THHN10GN	Green					\$259.00
THHN10YL	Yellow					\$259.00
THHN10OR	Orange					\$259.00
THHN10BN	Brown					\$259.00
THHN10GYL	Green with Yellow spiral stripe					\$279.00
THHN8BK	Black	8AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	500'	31.4 lbs	\$470.00
THHN8GN	Green					\$470.00
THHN8GYL	Green with Yellow spiral stripe					\$487.00
THHN6BK	Black	6AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	500'	48.5 lbs	\$724.00
THHN4BK	Black	4AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	500'	75.4 lbs	\$1,108.00

Wire - Type THHN

Gauge Conversion Table

American Wire Gauge Conversion Chart*			
This cross reference shows equivalent nominal values. Actual cross sections may vary.			
AWG	mm ²	AWG	mm ²
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.*