

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

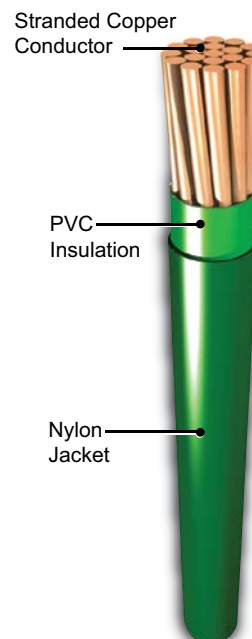
Jacket

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

Standards

- UL Standards UL-758, UL-1063
- AWM Spec 1316, 1318, 1219, 1408, 1410, 1411, 1452
- Canadian Standards Association C22.2 No. 210
- RoHS

Type THHN/THWN-2 Wire



Type THHN/THWN-2 Wire Specifications

Size (AWG or kcmil)	Number of Strands	mm ² Equivalent	Insulation Thickness (inches)		Overall Outside Diameter		Allowable Ampacities*			Approximate Weight (lbs) 500ft	Standard Packaging spool/reel
			PVC	Nylon	(inches)	(mm)	60°C	75°C	90°C		
14	19	2.5	0.015	0.005	0.113	2.87	15	20	25	8.1	500'
12	19	4	0.016	0.005	0.133	3.38	20	25	30	12.2	
10	19	6	0.020	0.005	0.166	4.22	30	35	40	19.2	
8	19	10	0.031	0.006	0.222	5.64	40	50	55	31.5	
6	19	16	0.031	0.006	0.259	6.58	55	65	75	47.8	
4	19	25	0.040	0.006	0.327	8.31	70	85	95	76.7	

*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
<u>THHN14BK</u>	Black	14AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	500'	8.1 lbs	\$97.00
<u>THHN14WH</u>	White					\$97.00
<u>THHN14RD</u>	Red					\$97.00
<u>THHN14BL</u>	Blue					\$97.00
<u>THHN14GN</u>	Green					\$97.00
<u>THHN14YL</u>	Yellow					\$84.00
<u>THHN14OR</u>	Orange					\$97.00
<u>THHN14BN</u>	Brown					\$97.00
<u>THHN14PL</u>	Purple					\$84.00
<u>THHN14GY</u>	Gray					\$97.00
<u>THHN14GYL</u>	Green with Yellow spiral stripe					\$104.00
<u>THHN14BW</u>	Blue with White spiral stripe					\$104.00
<u>THHN12BK</u>	Black	12AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	500'	12.2 lbs	\$145.00
<u>THHN12WH</u>	White					\$145.00
<u>THHN12RD</u>	Red					\$145.00
<u>THHN12BL</u>	Blue					\$145.00
<u>THHN12GN</u>	Green					\$145.00
<u>THHN12YL</u>	Yellow					\$145.00
<u>THHN12OR</u>	Orange					\$145.00
<u>THHN12BN</u>	Brown					\$145.00
<u>THHN12GY</u>	Gray					\$145.00
<u>THHN12GYL</u>	Green with Yellow spiral stripe					\$151.00
<u>THHN10BK</u>	Black	10AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	500'	19.2 lbs	\$232.00
<u>THHN10WH</u>	White					\$232.00
<u>THHN10GN</u>	Green					\$232.00
<u>THHN10YL</u>	Yellow					\$232.00
<u>THHN10OR</u>	Orange					\$232.00
<u>THHN10BN</u>	Brown					\$232.00
<u>THHN10GYL</u>	Green with Yellow spiral stripe					\$238.00
<u>THHN8BK</u>	Black	8AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	500'	31.5 lbs	\$380.00
<u>THHN8GN</u>	Green					\$380.00
<u>THHN8GYL</u>	Green with Yellow spiral stripe					\$386.00
<u>THHN6BK</u>	Black	6AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	500'	47.8 lbs	\$583.00
<u>THHN4BK</u>	Black	4AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts		76.7 lbs	\$981.00

Wire - Type THHN

Gauge Conversion Table

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