

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

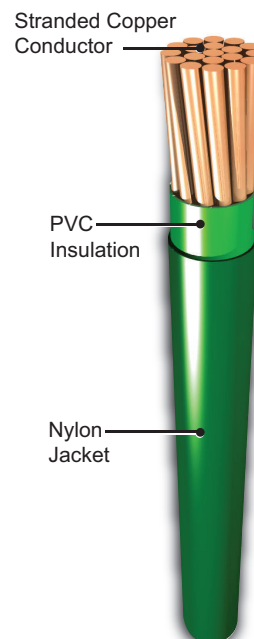
Jacket

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	mm2 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			
THHN14BK	Black	14AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	500'	8.1 lbs	\$086q:			
THHN14WH	White					\$085x:			
THHN14RD	Red					\$085u:			
THHN14BL	Blue					\$086t:			
THHN14GN	Green					\$085j:			
THHN14YL	Yellow					\$085z:			
THHN14OR	Orange					\$085p:			
THHN14BN	Brown					\$086v:			
THHN14PL	Purple					\$085s:			
THHN14GY	Gray					\$085l:			
THHN14GYL	Green with Yellow spiral stripe					\$0085o:			
THHN14BW	Blue with White spiral stripe					\$0086y:			
THHN12BK	Black					12AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	12.2 lbs	\$00866:
THHN12WH	White								\$0086i:
THHN12RD	Red	\$0086j:							
THHN12BL	Blue	\$00868:							
THHN12GN	Green	\$0086d:							
THHN12YL	Yellow	\$0086o:							
THHN12OR	Orange	\$0086h:							
THHN12BN	Brown	\$0086a:							
THHN12GY	Gray	\$0086f:							
THHN12GYL	Green with Yellow spiral stripe	\$0086g:							
THHN10BK	Black	10AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts		19.2 lbs				\$0085,:
THHN10WH	White								\$00864:
THHN10GN	Green			\$00861:					
THHN10YL	Yellow			\$00865:					
THHN10OR	Orange			\$00863:					
THHN10BN	Brown			\$00860:					
THHN10GYL	Green with Yellow spiral stripe			\$00862:					
THHN8BK	Black	8AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	31.5 lbs	\$0085#:				
THHN8GN	Green				\$0085l:				
THHN8GYL	Green with Yellow spiral stripe				\$0085?:				
THHN6BK	Black	6AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	47.8 lbs	\$0085,:				
THHN4BK	Black	4AWG	Type THHN/THWN-2 wire, bare copper, 19 strands, 600 Volts	76.7 lbs	\$0085[:				

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.			