



# **COPPER BUILDING WIRE WITH NYLON JACKET**

THWN / THHN / THWN - 2 - 600V

Copper building wire with  
nylon jacket



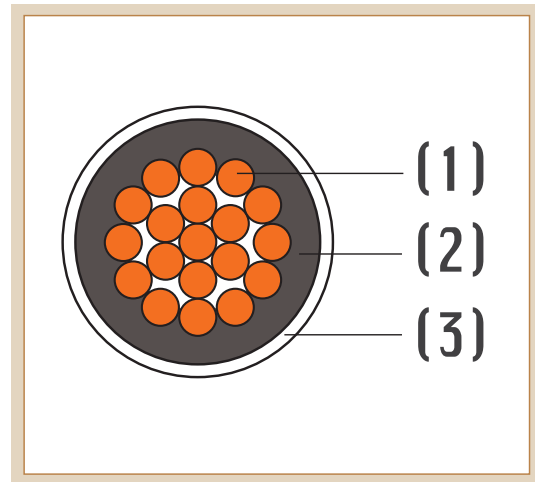
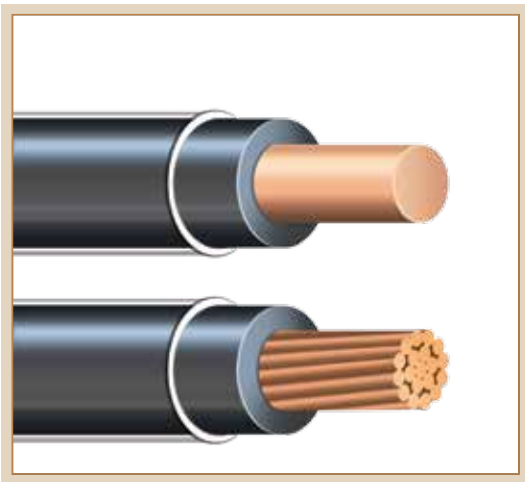
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# COPPER BUILDING WIRE WITH NYLON JACKET

THWN / THHN / THWN - 2 - 600V

● **Application:**

Ideal for cable tray installation, open wiring, conduits, service entrance, feeders, and branch circuits. Suitable for power and lighting installations in residential, commercial, and industrial establishments.



<b>Standards:</b> UL 83, ASTM B3, ASTM B8
<b>Construction:</b> Cu/PVC/Nylon
(1) Conductor: Solid (class 1) or stranded (class2, compact or non-compact) soft drawn copper (2) Insulation: PVC, environment friendly, in accordance with RoHS (3) Jacket: Nylon, offers mechanical protection and resistance to petroleum by-products, chemical reagents, and oils. It is also abrasion-resistant, allows higher gliding and greater ease in installation.
<b>Wire identification:</b>
Black, white, red, yellow, blue, green ... (Other colors available upon request)
<b>Characteristics:</b>
- Rated voltage: 600V - Max. conductor temperature in normal use: <ul style="list-style-type: none"><li>•THWN : 75°C in wet location</li><li>•THHN : 90°C in dry location</li><li>•THWN-2 : 90°C in dry or wet location.</li></ul>

● **Technical specifications**

Nominal area		No. & diameter of wire	Thickness of insulation	Thickness of nylon jacket	Approx. overall diameter	Allowable ampacity		Approx. weight
mm <sup>2</sup>	AWG	No. x mm	mm	mm	mm	A (75°C)	A (90°C)	kg/km
<b>Solid</b>						THWN	THHN / THWN-2	
2.0	14	1 x 1.6	0.38	0.10	2.6	15	15	22
3.5	12	1 x 2.0	0.38	0.10	3.0	20	20	33
5.5	10	1 x 2.6	0.51	0.10	3.8	30	30	56
8	8	1 x 3.2	0.76	0.13	5.0	50	55	88
<b>Round concentric-lay-stranded</b>								
2.0	14	7 x 0.6	0.38	0.10	2.8	15	15	23
3.5	12	7 x 0.8	0.38	0.10	3.4	20	20	39
5.5	10	7 x 1.0	0.51	0.10	4.2	30	30	61
8	8	7 x 1.2	0.76	0.13	5.4	50	55	92
14	6	7 x 1.6	0.76	0.13	6.6	65	75	154
22	4	7 x 2.0	1.02	0.15	8.3	85	95	244
30	2	7 x 2.3	1.02	0.15	9.2	115	130	315
38	1	19 x 1.6	1.27	0.18	10.9	130	150	418
50	1/0	19 x 1.8	1.27	0.18	11.9	150	170	519
60	2/0	19 x 2.0	1.27	0.18	12.9	175	195	631
80	3/0	19 x 2.3	1.27	0.18	14.4	200	225	820
100	4/0	19 x 2.6	1.27	0.18	15.9	230	260	1034
125	250	37 x 2.1	1.52	0.20	18.1	255	290	1320
150	300	37 x 2.3	1.52	0.20	19.5	285	320	1569
175	350	37 x 2.47	1.52	0.20	20.7	310	350	1797
200	400	37 x 2.6	1.52	0.20	21.6	335	380	1982
250	500	37 x 2.95	1.52	0.20	24.1	380	430	2526
<b>Round compact-stranded</b>								
2.0	14	7 x CC.	0.38	0.10	2.6	15	15	23
3.5	12	7 x CC.	0.38	0.10	3.2	20	20	38
5.5	10	7 x CC.	0.51	0.10	4.0	30	30	58
8	8	7 x CC.	0.76	0.13	5.1	50	55	87
14	6	7 x CC.	0.76	0.13	6.2	65	75	153
22	4	7 x CC.	1.02	0.15	8.2	85	95	264
30	2	7 x CC.	1.02	0.15	8.7	115	130	301
38	1	7 x CC.	1.27	0.18	10.2	130	150	400
50	1/0	7 x CC.	1.27	0.18	11.1	150	170	486
60	2/0	7 x CC.	1.27	0.18	12.0	175	195	594
80	3/0	19 x CC.	1.27	0.18	13.4	200	225	793
100	4/0	19 x CC.	1.27	0.18	14.7	230	260	987
125	250	19 x CC.	1.52	0.20	16.6	255	290	1217
150	300	19 x CC.	1.52	0.20	17.7	285	320	1463
175	350	37 x CC.	1.52	0.20	18.8	310	350	1680
200	400	37 x CC.	1.52	0.20	20.0	335	380	1934
250	500	37 x CC.	1.52	0.20	22.0	380	430	2418

Beside above list we can also provide others size depend on customer's requirement



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