



COPPER BUILDING WIRE WITH NYLON JACKET

THWN / THHN / THWN - 2 - 600V

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NYLON JACKET**



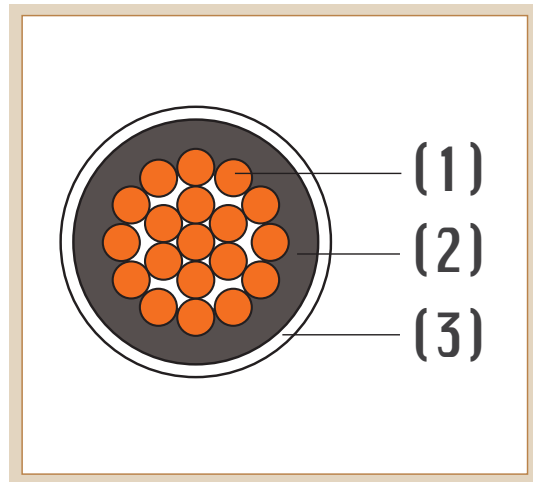
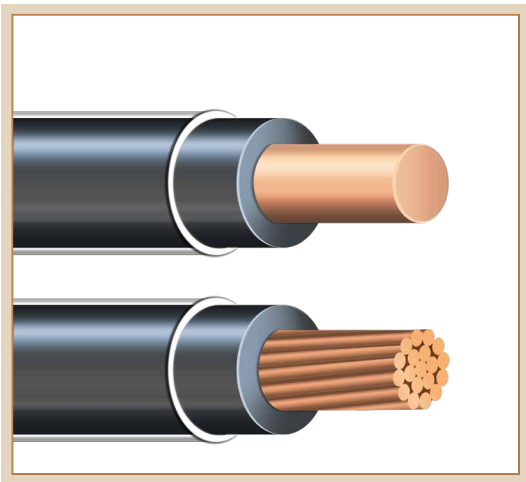
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• Application:

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.



Standards: UL 83, ASTM B3, ASTM B8

Construction: Cu/PVC/Nylon

- (1) Conductor: Solid (class 1) or stranded (class2) 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.

Wire identification:

Black, white, red, yellow, blue, green ...
(Other colors available upon request)

Characteristics:

- Rated voltage: 600V
- Max. conductor temperature in normal use:
 - THWN : 75°C in wet location
 - THHN : 90°C in dry location
 - THWN-2 : 90°C in dry or wet location.

Nominal area		No. & diameter of wire	Thickness of insulation	Thickness of nylon jacket	Approx. overall diameter	Allowable ampacity		Max. DC resistance of conductor at 20°C	Approx. weight
mm ²	AWG	No. x mm	mm	mm	mm	A (75°C)	A (90°C)	Ω/km	kg/km
Solid						THWN	THHN / THWN-2		
2.08	14	1 x 1.63	0.38	0.10	2.6	15	15	8.45	22
3.31	12	1 x 2.05	0.38	0.10	3.0	20	20	5.31	33
5.26	10	1 x 2.59	0.51	0.10	3.8	30	30	3.34	56
8.37	8	1 x 3.26	0.76	0.13	5.0	50	55	2.10	88
Round concentric-lay-stranded									
2.08	14	7x0.62	0.38	0.10	2.8	15	15	8.62	23
3.31	12	7x0.77	0.38	0.10	3.4	20	20	5.43	39
5.26	10	7x0.98	0.51	0.10	4.2	30	30	3.41	61
8.37	8	7x1.24	0.76	0.13	5.4	50	55	2.14	92
13.30	6	7x1.56	0.76	0.13	6.6	65	75	1.35	154
21.15	4	7x1.96	1.02	0.15	8.3	85	95	0.848	244
33.62	2	7x2.47	1.02	0.15	9.2	115	130	0.534	315
42.41	1	19x1.69	1.27	0.18	10.9	130	150	0.423	418
53.49	1/0	19x1.89	1.27	0.18	11.9	150	170	0.335	519
67.43	2/0	19x2.12	1.27	0.18	12.9	175	195	0.266	631
85.01	3/0	19x2.39	1.27	0.18	14.4	200	225	0.211	820
107.2	4/0	19x2.68	1.27	0.18	15.9	230	260	0.167	1034
127	250	37x2.09	1.52	0.20	18.1	255	290	0.142	1320
152	300	37x2.26	1.52	0.20	19.5	285	320	0.118	1569
177	350	37x2.47	1.52	0.20	20.7	310	350	0.101	1797
203	400	37x2.64	1.52	0.20	21.6	335	380	0.0885	1982
253	500	37x2.95	1.52	0.20	24.1	380	430	0.0709	2526

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



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