

THHN / THWN-2 Copper Electric Wire PNS35-1



APPLICATION

General purpose building wire for services feeders and branch circuits. Also used for wiring of machine tools (stranded), appliances, and control circuits.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

600V

Temperature Rating

90°C dry / 75°C wet

STANDARDS

PNS35-1

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

CONSTRUCTION

Conductor

Annealed copper wire: Conforming to requirements of PNS 260 for solid conductor or PNS 1207 for stranded conductors.

Insulation

PVC conforming to the requirements of PNS 661

Sheath

Tough polyamide (Nylon)

Sheath Colour

- Available colors are red, white, blue, green, black, etc.

THHN/THWN, 90°C Dry/75°C Wet, 600V wire

Conductor				Minimum insulation thickness, mm		Minimum nylon thickness mm	Approx. overall diameter mm
Nominal sectional area mm2	Composition		Outside diameter mm				
	Number of wires	Wire diameter mm		Average	At any point		
2	1	1.6	1.6	0.4	0.34	0.1	2.6
	7	0.6	1.8				2.8
3.5	1	2	2	0.4	0.34	0.1	3
	7	0.8	2.4				3.4
5.5	1	2.6	2.6	0.5	0.34	0.1	3.8
	7	1	3				4.2
8	1	3.2	3.2	0.8	0.68	0.13	5.06
	7	1.2	3.6				5.46
14	7	1.6	4.8	0.8	0.68	0.13	6.66
22	7	2	6	1	0.85	0.15	8.3
30	7	2.3	6.9	1	0.85	0.15	9.2
38	19	1.6	8	1.3	1.11	0.18	10.96
50	19	1.8	9	1.3	1.11	0.18	11.96
60	19	2	10	1.3	1.11	0.18	12.96
80	19	2.3	11.5	1.3	1.11	0.18	14.46
100	19	2.6	13	1.3	1.11	0.18	15.96
125	37	2.1	14.7	1.6	1.36	0.18	18.26
150	37	2.3	16.1	1.6	1.36	0.2	19.7
175	37	2.47	17.3	1.6	1.36	0.2	20.9
200	37	2.6	18.2	1.6	1.36	0.2	21.8
250	37	2.95	20.65	1.6	1.36	0.2	24.25
250	61	2.3	20.7				24.3
300	61	2.52	22.7	1.8	1.53	0.23	26.76
325	61	2.6	23.4	1.8	1.53	0.23	27.46
375	61	2.82	25.3	1.8	1.53	0.23	29.36
400	61	2.9	26.1	1.8	1.53	0.23	30.16
500	61	3.2	28.8	1.8	1.53	0.23	32.86

Derating factor (ground): 1 (Soil thermal resistivity: 1km/W, Depth 0.8m, Flat formation - touching)

Derating factor (air): 1 (Flat formation - touching)