

THHN / THWN-2 Copper Electric Wire



APPLICATION

Low voltage electrical energy distribution; for use in electrical wiring of buildings, feeder circuits, branches and secondary industrial, commercial and residential indoor networks. Special for installations in abrasive sites or sites contaminated with oil, grease, gasoline, and other chemical substances. They are suitable for installation in ducts, pipes, boards, and cable trays according to RETIE article 20.3 literal J, from 12 AWG gauge and larger.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

600V

Temperature Rating

90°C dry and wet places

STANDARDS

ASTM B 3; ASTM B 8; NTC 1332; NTC 307; NTC 359; UL 83

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

BSoft copper conductor, concentric stranded, Class B.

Insulation

Polyvinyl chloride (PVC), flame retardant (FR), resistant to heat, abrasion and humidity, resistant to sunlight (SR) in black, free of hazardous substances (RoHS).

Sheath

External cover in polyamide (nylon), resistant to gasoline and oils (GR II).

Sheath Colour

● Red/Black/White/Blue/Green/Pink etc.

DIMENSIONS

Conductor Size	No. of Strands	Insulation Thickness		Sheath Thickness		Overall Diameter		Net Weight	Ampacity*
AWG/kcmil		inches	mm	inches	mm	inches	mm	lbs/kft	amps
14	Solid	0.015	0.38	0.004	0.10	0.110	2.79	16	25
14	19	0.015	0.38	0.004	0.10	0.120	3.05	16	25
12	Solid	0.015	0.38	0.004	0.10	0.130	3.30	24	30
12	19	0.015	0.38	0.004	0.10	0.140	3.56	25	30
10	Solid	0.020	0.51	0.004	0.10	0.160	4.06	38	40
10	19	0.020	0.51	0.004	0.10	0.170	4.32	39	40
8	19	0.030	0.76	0.004	0.10	0.230	5.84	66	55
6	19	0.030	0.76	0.005	0.13	0.250	6.35	98	75
4	19	0.040	1.02	0.006	0.15	0.330	8.38	155	95
3	19	0.040	1.02	0.006	0.15	0.360	9.14	190	115
2	19	0.040	1.02	0.006	0.15	0.390	9.91	235	130
1	19	0.050	1.27	0.007	0.18	0.450	11.43	300	145
1/0	19	0.050	1.27	0.007	0.18	0.500	12.70	370	170
2/0	19	0.050	1.27	0.007	0.18	0.540	13.72	460	195
3/0	19	0.050	1.27	0.007	0.18	0.600	15.24	570	225
4/0	19	0.050	1.27	0.007	0.18	0.660	16.76	710	260
250	37	0.060	1.52	0.008	0.20	0.720	18.29	845	290
300	37	0.060	1.52	0.008	0.20	0.766	19.46	985	320
350	37	0.060	1.52	0.008	0.20	0.830	21.08	1,165	350
400	37	0.060	1.52	0.008	0.20	0.864	21.95	1,296	380
500	37	0.060	1.52	0.008	0.20	0.960	24.38	1,640	430
600	61	0.070	1.78	0.009	0.23	1.051	26.70	1,934	475
750	61	0.070	1.78	0.009	0.23	1.170	29.72	2,480	520
1000	61	0.070	1.78	0.009	0.23	1.320	33.53	3,300	615

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

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

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.