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**河南泰诺电缆有限公司**

HENAN TANO CABLE CO.,LTD.



# BUILDING WIRE to ASTM STANDARD



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Henan Tano Cable Co., Ltd.( Tano Cable for short), is a leading and professional manufacturer of cable and wire with more than 20 years' history and manufacturing experience, located in Zhengzhou city which is the capital of Henan province, China.

Tano Cable aims at providing integral power solution for international customers. We are working together as one company to provide products and technologies for building, maintaining and advancing the power and information infrastructures that connect the world. We mainly have the following products with strong competitiveness: All Aluminum Conductors (AAC), All Aluminum Alloy Conductors (AAAC), Aluminum Conductors Steel Reinforcement (ACSR) , Aerial Bundled Cables (ABC), building wire, welding cable, control cable, instrument cable, rubber cable, PVC insulated power cable, XLPE insulated power cable up to 500KV, customer-tailored cable and cable accessories, conforming to many different Country or international standard, such as IEC, HAR, BS, DIN, ICEA, ASTM, SABS, AS/NZS, JIS and so on.

Tano Cable pays great importance on the quality. We have strong teams and equipments for both production and inspection. Moreover, we have been awarded many certificates of ISO, CE, SONCAP, others from China and abroad. We keep improving our quality management system to meet the client's final satisfaction.

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Tano Cable has provided services to the global clients who working in all areas of the energy, construction, industrial, specialty and communications market, and obtained the client's trust and compliment.

Welcome your any inquiry! Welcome your any visit! Welcome your any contact! We will take our biggest sincerity to be your long-term friend and partner.







## Building Wire THHN /THWN to ASTM Standard

### APPLICATION

Type THHN/THWN conductors are primarily used in conduit for services, feeder, and branch circuits in commercial or industrial applications as specified in the National Electrical Code.

When used as type THHN, conductor is suitable for use in dry locations at temperatures not to exceed 90°C.

When used as type THWN, conductor is suitable for use at temperatures not to exceed 90°C, dry locations or 75°C wet locations or not to exceed 75°C when exposed to oil or coolant.

When used as type THWN-2, conductor is suitable for use in wet and dry locations at temperatures not to exceed 90°C or not to exceed 75°C when exposed to oil or coolant.

When used as type MTW, conductor is suitable for use in wet locations, or when exposed to oil or coolant at temperatures not to exceed 60°C, or dry locations at temperatures not to exceed 90°C (with ampacity limited to that for 75°C conductors per NFPA 79).

Conductor temperatures not to exceed 105°C in dry locations when rated AWM and used as appliance wiring material. Voltage rating for all applications is 600 volts.

### STANDARD

UL 83 - Thermoplastic-Insulated Wires and Cables

CSA C22.2 No. 75-03

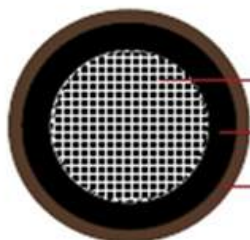
UL 1063 (MTW) - Machine-Tool Wires and Cables (stranded cables only)

UL 758 (AWM)

ICEA S-95-658/NEMA WC 70



## CONSTRUCTION



Stranded bare copper conductor

PVC insulation

Nylon jacket

**Conductor:** Soft annealed bare copper, Class B stranding per ASTM B8

**Insulation:** Tough, heat and moisture resistant Polyvinyl chloride (PVC) insulation over which a nylon (polyamide) jacket is applied.

**Color:** upon request, black is preferable

## CONSTRUCTION PARAMETER



AWG or kcmil	Strand	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal Overall Diameter		Cable weight	
		Inch	mm	Inch	mm	Inch	mm	Lbs/Mt	kg/km
14	1	0.015	0.38	0.004	0.1	0.11	2.79	15	22
12	1	0.015	0.38	0.004	0.1	0.12	3.05	23	34
10	1	0.02	0.51	0.004	0.1	0.15	3.81	37	54
14	19	0.015	0.38	0.004	0.1	0.11	2.79	16	24
12	19	0.015	0.38	0.004	0.1	0.13	3.3	24	36
10	19	0.02	0.51	0.004	0.1	0.17	4.32	39	58
8	19	0.03	0.76	0.005	0.13	0.22	5.59	63	94
6	19	0.03	0.76	0.005	0.13	0.26	6.6	98	145
4	19	0.04	1.01	0.006	0.15	0.33	8.38	157	234
3	19	0.04	1.01	0.006	0.15	0.36	9.14	193	287
2	19	0.04	1.01	0.006	0.15	0.39	9.91	240	357
1	19	0.05	1.27	0.007	0.18	0.43	10.92	300	446
1/0	19	0.05	1.27	0.007	0.18	0.47	11.94	376	560
2/0	19	0.05	1.27	0.007	0.18	0.52	13.21	467	695
3/0	19	0.05	1.27	0.007	0.18	0.57	14.48	581	864
4/0	19	0.05	1.27	0.007	0.18	0.64	16.26	724	1077
250	37	0.06	1.52	0.008	0.2	0.69	17.53	855	1272
300	37	0.06	1.52	0.008	0.2	0.76	19.3	1022	1521



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