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河南泰诺电缆有限公司

HENAN TANO CABLE CO.,LTD.

AAAC to IEC 60189 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.





All Aluminum Alloy Conductor (AAAC) Cables to IEC 61089 Standard

APPLICATION

AAAC is mainly used as bare overhead transmission cable and as primary and secondary distribution cable. It is also suitable for laying across basins, rivers and valleys where special geographical textures exist.

STANDARD

Basic design to IEC 61089 standard.

CONSTRUCTION

AAAC cable consists of aluminum alloy wires. The aluminum alloy wires are concentrically stranded. This section deals with heat-treatable magnesium silicon type aluminium alloys to the applicable international standard, the electrical and mechanical properties of which all fall within the values suggested by relevant standard. Conductors to all other recognized specifications can also be supplied. The alloys referred to have higher strength but lower conductivity than pure aluminium. Being lighter, alloy conductors can sometimes be used to advantage in place of the more conventional ACSR; Having lower breaking loads than the later, their use becomes particularly favourable when ice and wind loadings are low.

ELECTRICAL PROPERTIES

Density@20°C	2.70 kg/dm
Temperature Coefficient@20°C	0.00360 (°C)
Resistivity@20°C	0.0326 Ohms mm ² /m
Linear Expansivity	23 x10 ⁻⁶ (°C)

SERVICE CONDITIONS

Ambient Temperature	-5°C - 50°C
Wind Pressure	80 – 130kg/m ²
Seismic Acceleration	0.12 - 0.05g
Isokeraunic Level	10 – 18
Relative Humidity	5 – 100%

CONSTRUCTION PARAMETERS

Code	Nominal Area	Stranding	Overall Diameter	Weight	Rated Strength	Electrical Resistance	Current Rating*
	mm ²	No.×mm	mm	kg/km	KN	Ω/Km	A
16	18.4	7/1.83	5.49	50.4	5.43	1.7896	86
25	28.8	7/2.29	6.87	78.7	8.49	1.1453	113
40	46	7/2.89	8.67	125.9	13.58	0.7158	151
63	72.5	7/3.36	10.89	198.3	21.39	0.4545	200
100	115	19/2.78	13.9	316.3	33.95	0.2877	266
125	144	19/3.10	15.5	395.4	42.44	0.2302	305
160	184	19/3.51	17.55	506.1	54.32	0.1798	355
200	230	19/3.93	19.65	632.7	67.91	0.1439	407
250	288	19/4.39	21.95	790.8	84.88	0.1151	466
315	363	37/3.53	24.71	998.9	106.95	0.0916	535
400	460	37/3.98	27.86	1268.4	135.81	0.0721	618
450	518	37/4.22	29.54	1426.9	152.79	0.0641	663
500	575	37/4.45	31.15	1585.5	169.76	0.0577	706
560	645	61/3.67	33.03	1778.4	190.14	0.0516	755
630	725	61/3.89	35.01	2000.7	213.9	0.0458	809
710	817	61/4.13	37.17	2254.8	241.07	0.0407	866
800	921	61/4.38	39.42	2540.6	271.62	0.0361	928
900*	1036	91/3.81	41.91	2861.1	305.58	0.0321	992
1000*	1151	91/4.01	44.11	3179	339.53	0.0289	1051
1120*	1289	91/4.25	46.75	3560.5	380.27	0.0258	1118
1250*	1439	91/4.49	49.39	3973.7	424.41	0.0231	1185

(*) Note: The values of current rating mentioned in above Table are based on wind velocity of 0.6 metre/second, solar heat radiation of 1200 watt/metre², ambient temperature of 50° C & conductor temperature of 80°C.



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HENAN TANO CABLE CO.,LTD.

Website: <http://www.tanocable.com/>

Tel.: 0086-371-60306197

Fax: 0086-371-60306197

Email: info@tanocable.com

Address: Zhengzhou City, Henan
Province, China.

Zip: 450000