

# 河南泰诺电缆有限公司

HENAN TANO CABLE CO.,LTD.





# **COMPANY PROFILE**



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.

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.





















# Aluminum Conductor Steel reinforced (ACSR) Cables to JIS C 3110 Standard

#### APPLICATION

ACSR conductors are widely used for electrical power transmission over long distances, since they are ideal for long overhead lines spans. They are also used as a messenger for supporting overhead electrical cables.

#### STANDARD

Basic design to JIS C 3110 standard.

#### CONSTRUCTION

ACSR conductors are formed by several wires of aluminium and galvanized steel, stranded in concentric layers. The wire or wires which form the core, are made of galvanized steel and the external layer or layers, are of aluminium. Galvanized steel core consist normally of 1,7 or 19 wires. The diameters of steel and aluminium wires can be the same, or different. By varying the relative proportions of aluminium and steel, the required characteristics for any particular application can be reached. A higher U. T. S. Can be obtained, by increasing steel content, and a higher current carrying capacity by increasing aluminium content.

#### **ELECTRICAL PROPERTIES**

Density@20℃	Aluminum: 2.703 kg/dm			
онынуши с	Gahanized Steel: 7.80 kg/dm			
Temperature Coefficient@20°C	Aluminum: 0,00403 (°C)			
Resistivity@20°C	Aluminum: Should not exceed 0.028264			
	Aluminum: 23 x10 (°C)			
Linear Expansivity	Galvanized Steel: 11.5 x10 (1/°C)			



## SERVICE CONDITIONS

Ambient Temperature	-5°C - 50°C		
Wind Pressure	80 – 130kg/m2		
Seismic Acceleration	0.12 - 0.05g		
Isokeraunic Level	10 – 18		
Relative Humidity	5 – 100%		

### CONSTRUCTION PARAMETERS

Nominal Sectional Area	Sectional Area			Stranding		Overall	Weight	Breaking	Electrical Resistance
	AL	Steel	Total	AL	Steel	Diameter		Load	@20*
mm2	mm2	mm2	mm2	No.×mm	No.×mm	mm	Kg/Km	KN	Ω/Km
25	24.9	4.2	29.1	6/2.30	1/2.30	6.9	101	8.89	1.15
32	31.9	5.3	37.2	6/2.60	1/2.60	7.8	129	11.17	0.899
58	57.7	9.6	67.3	6/3.50	1/3.50	10.5	233	19.4	0.497
95	95.4	15.9	111.3	6/4.50	1/4.50	13.5	385	31.16	0.301
120	125	29.1	153.8	30/2.3	7/2.3	16.1	574	54.29	0.233
160	159	37.2	196.5	30/2.6	7/2.6	18.2	733	68,4	0.182
200	198	46.2	244.4	30/2.9	7/2.9	20.3	912	84.67	0.147
240	241	59.3	300.5	30/3.2	7/3.2	22.4	1110	100.06	0.12
330	327	52.8	379.6	26/4.0	7/3.1	25.3	1320	107.31	0.0888
410	413	67.3	480.7	26/4.5	7/3.5	28.5	1673	T136.32	0.0702
520	520	67.3	586.8	54/3.5	7/3.5	31.2	1969	152.88	0.0559
610	612	79.4	691.8	54/3.8	7/3.8	34.2	2320	179.83	0.0474
810	815	56.3	870.8	45/3.8	7/3.2	38.4	2700	181.1	0.0356

## TECHNICAL DATA

Numbers of Wires		Final Module	es of Elasticity	Coefficient of Linear Expansion	
Ai	Steel	Kg/mm2	lb/in²	1/C*	1/F°
6	1	81	11.5 x10 <sup>6</sup>	19.1 x10-6	10.6 x10-6
6	7	77	11.0 ×10 <sup>6</sup>	19.8 x10-6	11.0 x10-6
12	7	107	15.2 x10 <sup>8</sup>	15.3 x10-6	8.5 x10-6
18	1	67	9.5 ×10 <sup>8</sup>	21.2 x10-6	11.8 x10-6
24	7	74	10.5 ×10 <sup>6</sup>	19.6 x10-6	10.9 x10-6
26	7	77	10.9 x10 <sup>6</sup>	18.9 x10-6	10.5 x10-6
28	7	79	11.2 x10 <sup>8</sup>	18.4 x10-6	10.2 x10-6
30	7	82	11.6 x10 <sup>6</sup>	17.8 ×10-6	9.9 x10-6
30	19	80	11.4 x10 <sup>6</sup>	18.0 x10-6	10.0 x10-6
32	19	82	11.7 ×10°	17.5 x10-6	9.7 x10-6
54	7	7 70 9.9 x10°	9.9 x10 <sup>6</sup>	19.3 x10-6	10.7 x10-6
54	19	68	9.7 ×10 <sup>6</sup>	19.4 ×10-6	10.8 x10-6

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