



河南泰诺电缆有限公司

HENAN TANO CABLE CO.,LTD.



290/500 kV XLPE INSULATED, PE SHEATHED HV POWER CABLE to IEC 60840 STANDARD



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.





290/500 kV XLPE Insulated, PE Sheathed HV Power Cable to IEC 60840 Standard

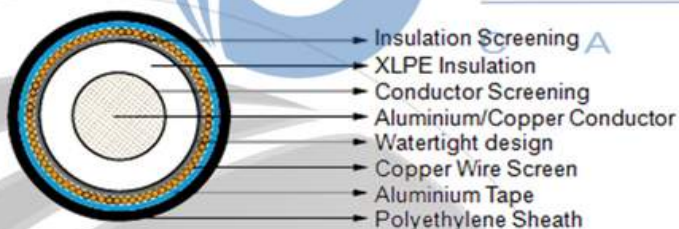
APPLICATION

These single core cables are designed for distribution of electrical power with nominal voltage 290/500kV. They are suitable for installation mostly in power supply stations, indoors and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switchboards and power stations.

STANDARD

IEC 62067

CONSTRUCTION



Conductor: The cable conductors can be made of copper or aluminium, depending on customer's preference or current carrying capacity. Large size solid conductors are made of aluminium. Available constructions including: round solid conductors up to 2000mm² (RE); circular stranded compacted conductors up to 1200mm² (RM); circular conductors with shaped wires up to 2000mm² (RM, Keystone conductors); segmental conductors up to 2500mm² (RMS, Milliken conductors); oval shaped stranded compacted conductors up to 800mm² for external gas pressure cables (OM).

Conductor Screen: Extruded layer of semi-conducting cross-linkable compound is applied over the conductor and shall cover the surface completely.

Insulation: Insulation is of cross-linked polyethylene compound XLPE.

Insulation Screen: Extruded layer of semi-conducting cross-linkable compound is applied over the insulation.

Metallic Layer: The metallic layer may be applied over the core assembly collectively. The metallic screen shall consist of either copper tapes or a concentric layer of copper wires or a combination of tapes and wires.

Separation Sheath: Aluminum Tape sheath

Outer Sheath: PE

CONSTRUCTION PARAMETER

Nom. Cross-Section Area	Nom. Insulation Thickness	Copper Wire Screen Area	Approx. Overall Diameter	Approx. Weight	
				CU	AL
mm ²	mm	mm ²	mm	kg/m	
800	35	170	126	20	15
1000(RM)	33	170	126	21	15
1000(RMS)	32	170	128	22	16
1200	31	170	130	24	16
1400	31	170	133	26	17
1600	31	170	136	28	18
1800	31	170	139	30	19
2000	31	170	143	33	20
2500	31	170	150	38	23

ELECTRICAL PROPERTIES

Nom. Cross-Section	DC		AC		Capacitance per core	Inductance	Current Ratings/Power Ratings(continuous load)			
	Resistance @20°C		Resistance @90°C				Cu conductor		Al conductor	
	Cu	Al	Cu	Al			1 circuit	2 circuits	1 circuit	2 circuits
	mm²	Ω/km	Ω/km	Ω/km			Ω/km	µF/km	mH/km	A/MVA
							trefoil installation			
800	0.0221	0.0367	0.0317	0.05	0.124	0.45	628/544	498/431	537/465	427/370
1000(RM)	0.0176	0.0291	0.0276	0.0409	0.137	0.43	661/572	520/450	577/500	455/394
							flat installation			
1000(RMS)	0.0176	0.0291	0.0232	0.0375	0.149	0.56	907/785	770/667	725/628	615/533
1200	0.0151	0.0247	0.0201	0.0319	0.159	0.55	968/838	818/708	782/677	661/572
1400	0.0129	0.0212	0.0175	0.0275	0.167	0.53	1031/896	868/752	838/726	707/612
1600	0.0113	0.0186	0.0156	0.024	0.174	0.52	1085/896	912/790	893/773	751/650
1800	0.0101	0.0165	0.0142	0.0213	0.18	0.51	1124/973	942/816	939/813	787/682
2000	0.009	0.0149	0.0129	0.0193	0.187	0.5	1159/1004	969/839	976/845	816/707
2500	0.0072	0.0119	0.0109	0.0156	0.202	0.47	1226/1062	1019/882	1063/921	884/766



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