



**TANO**

C A B L E

**河南泰诺电缆有限公司**

HENAN TANO CABLE CO.,LTD.

# 40/69 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.







## 40/69 kV XLPE Insulated, PE Sheathed HV Power Cable to IEC 60840 Standard

### APPLICATION

These single core cables are designed 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. If the cable gets water inside due to the mechanical damages, swellable tapes prevent the movement of the water inside the cable.

### STANDARD

IEC 60840

### CONSTRUCTION



**Conductor:** Copper/Aluminium wire, stranded to BS 6360 class 2.

**Conductor Screen:** The conductor screen consists of an extruded layer of non metallic, semi-conducting compound applied on top of a semi-conducting tape. The conductor screen is applied under triple extrusion process over the conductor along with the insulation and the insulation screen. The extruded semi-conducting compound is firmly bonded to the insulation to exclude all air voids and can be easily hand stripped on site.

**Insulation:** Extruded cross-linked polyethylene (XLPE-GP8) compound insulation

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**Insulation Screen:** The insulation screen consists of an extruded layer of non metallic, semi-conducting compound extruded over the insulation of each core. The extruded semi-conducting layer shall consist of bonded or cold strippable semi-conducting compound capable of removal for jointing or terminating.

**Semi-conductive Water Blocking Swellable Tape:** A semi-conducting tape shall be applied over the core



500 Ohm-m at 90°C. The screen is tightly fitted to the insulation to exclude all air voids and can be easily hand stripped on site. The screen may be covered by semi-conductive water blocking swellable tape to ensure longitudinal watertightness.

**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.

**Swellable Tape:** Swellable material

**Separation Sheath:** Aluminum Tape sheath

**Outer Sheath:** Thermoplastic HDPE-ST3 compound

## CONSTRUCTION PARAMETER

Nom. Cross-Section Area	Nom. Insulation Thickness	Copper Wire Screen Area	Approx. Overall Diameter	Approx. Weight	
				CU	AL
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	kg/m	
240	13	25	56.9	4.7	2.9
300	13	25	59.9	5.4	3.3
400	13	35	61.5	6.4	4
500	13	35	65	8.4	4.9

## ELECTRICAL PROPERTIES



Nom. Cross-Section Area	DC		AC		Capacitance per core	Inductance	Continuous Current Rating for Single Circuit (in air)			
	Resistance @20°C		Resistance @90°C				Cu conductor		Al conductor	
	Cu	Al	Cu	Al			Trefoil	Flat	Trefoil	Flat
	Ω/km	Ω/km	Ω/km	Ω/km			μF/km	mH/km	A	
240	0.0754	0.125	0.0973	0.161	0.174	0.414	576	715	449	557
300	0.0601	0.1	0.0781	0.129	0.189	0.397	658	820	515	642
400	0.047	0.0778	0.0618	0.101	0.207	0.381	762	955	601	752
500	0.0366	0.0605	0.0492	0.0776	0.19	0.372	877	1108	753	838



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