



**TANO**

C A B L E

**河南泰诺电缆有限公司**

HENAN TANO CABLE CO.,LTD.



# 76/132 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.







# 76/132 kV XLPE Insulated, PE Sheathed HV Power Cable to IEC 60840 Standard

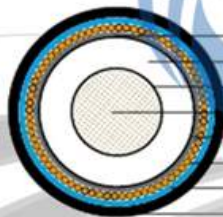
## APPLICATION

These single core cables are designed for distribution of electrical power with nominal voltage 76/132kV. 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 60840

## CONSTRUCTION



- Insulation Screening
- XLPE Insulation
- Conductor Screening
- Aluminium/Copper Conductor
- Watertight design
- Copper Wire Screen
- Aluminium Tape
- Polyethylene Sheath

**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 2000mm<sup>2</sup> (RE); circular stranded compacted conductors up to 1200mm<sup>2</sup> (RM); circular conductors with shaped wires up to 2000mm<sup>2</sup> (RM, Keystone conductors); segmental conductors up to 2500 mm<sup>2</sup> (RMS, Milliken conductors); oval shaped stranded compacted conductors up to 800mm<sup>2</sup> 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 <sup>2</sup>	mm	mm <sup>2</sup>	mm	kg/m	
185	22	50	74	6	4.4
240	20	50	72	6.2	4.3
300	19	50	72	6.8	4.5
400	18	50	74	7.7	5.2
500	18	50	77	8.8	5.7
630	18	50	81	10.3	6.4
800	16	50	82	11.7	6.8
1000	16	110	93	15	9.1
1200	15	110	94	17	9.7
1400	15	110	98	19	10
1600	15	110	101	21	11
1800	14	110	102	23	12
2000	14	110	106	25	13
2500	14	110	113	30	15

## ELECTRICAL PROPERTIES

Nom. Cross-Section Area	DC Resistance @20°C		AC Resistance @90°C		Capacitance per core µF/km	Inductance mH/km	Current Ratings/Power Ratings(continuous load)			
	Cu	Al	Cu	Al			Cu conductor		Al conductor	
							1 circuit	2 circuits	1 circuit	2 circuits
mm <sup>2</sup>	Ω/km	Ω/km	Ω/km	Ω/km			A/MVA		A/MVA	
							trefoil installation			
185	0.0991	0.164	0.127	0.211	0.107	0.49	368/84	314/72	289/66	246/56
240	0.0754	0.125	0.0973	0.161	0.121	0.46	420/96	358/82	332/76	282/64

300	0.0601	0.1	0.0781	0.129	0.134	0.44	469/107	398/91	371/85	315/72
400	0.047	0.0778	0.0618	0.101	0.151	0.42	525/120	444/102	420/96	356/81
500	0.0366	0.0605	0.0492	0.0791	0.163	0.4	586/134	493/113	474/108	400/91
630	0.0283	0.0469	0.0393	0.0622	0.177	0.39	649/148	545/125	533/122	448/102
800	0.0221	0.0367	0.0326	0.05	0.212	0.36	706/161	591/135	591/135	495/113
							flat installation			
1000	0.0176	0.0291	0.0232	0.0375	0.245	0.56	999/228	852/195	791/181	675/154
1200	0.0151	0.0247	0.0201	0.0319	0.271	0.55	1074/246	915/209	859/196	732/167
1400	0.0129	0.0212	0.0175	0.0275	0.286	0.53	1155/264	984/225	929/212	791/181
1600	0.0113	0.0186	0.0156	0.024	0.301	0.52	1226/280	1043/238	997/228	849/194
1800	0.0101	0.0165	0.0142	0.0213	0.332	0.51	1285/294	1091/249	1058/242	900/206
2000	0.009	0.0149	0.0129	0.0193	0.346	0.5	1346/308	1144/262	1114/255	947/217
2500	0.0072	0.0119	0.0109	0.0156	0.378	0.47	1465/335	1244/284	1244/284	1057/242



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**河南泰诺电缆有限公司**  
HENAN TANO CABLE CO.,LTD.

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

Tel.: 0086-371-60306197

Fax: 0086-371-60306197

Email: [info@tanocable.com](mailto:info@tanocable.com)

Address: Zhengzhou City, Henan  
Province, China.

Zip: 450000