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河南泰诺电缆有限公司

HENAN TANO CABLE CO.,LTD.



64/110 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.

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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.





64/110 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 64/110kV. 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



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	
240	15	95	65	5.6	4.1
300	15	95	67	6.3	4.5
400	15	95	71	7.2	5
500	14	95	72	8.2	5.3
630	14	95	76	9.7	5.9
800	14	95	80	11.6	6.7
1000	14	95	86	14	7.4
1200	14	95	92	16	8.7
1600	14	95	98	19.9	10.4
2000	14	95	106	24.2	12
2500	14	95	114	30	14.3

ELECTRICAL PROPERTIES

Nom. Cross-Section Area	DC Resistance @20°C		AC Resistance @90°C		Capacitance per core µF/km	Inductance mH/km	Continuous Current Rating for Single Circuit (in air)			
	Cu	Al	Cu	Al			Cu conductor		Al conductor	
							Trefoil	Flat	Trefoil	Flat
	mm ²	Ω/km	Ω/km	Ω/km			Ω/km	A		A
240	0.0754	0.125	0.0973	0.161	0.141	0.442	576	715	449	557
300	0.0601	0.1	0.0781	0.129	0.152	0.424	658	820	515	642
400	0.047	0.0778	0.0618	0.101	0.165	0.407	762	955	601	752
500	0.0366	0.0605	0.0492	0.0791	0.188	0.392	877	1108	697	878
630	0.0283	0.0469	0.0393	0.0622	0.206	0.376	1012	1292	807	1023

800	0.0221	0.0367	0.0326	0.05	0.224	0.363	1149	1483	931	1189
1000	0.0176	0.0291	0.0232	0.0375	0.251	0.349	1292	1688	1060	1364
1200	0.0151	0.0247	0.0201	0.0319	0.275	0.34	1542	1974	1226	1558
1600	0.0113	0.0186	0.0156	0.024	0.304	0.328	1741	2251	1432	1834
2000	0.009	0.0149	0.0129	0.0193	0.336	0.318	1942	2536	1619	2085
2500	0.0072	0.0119	0.0109	0.0156	0.372	0.309	2149	2836	1815	2353



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