

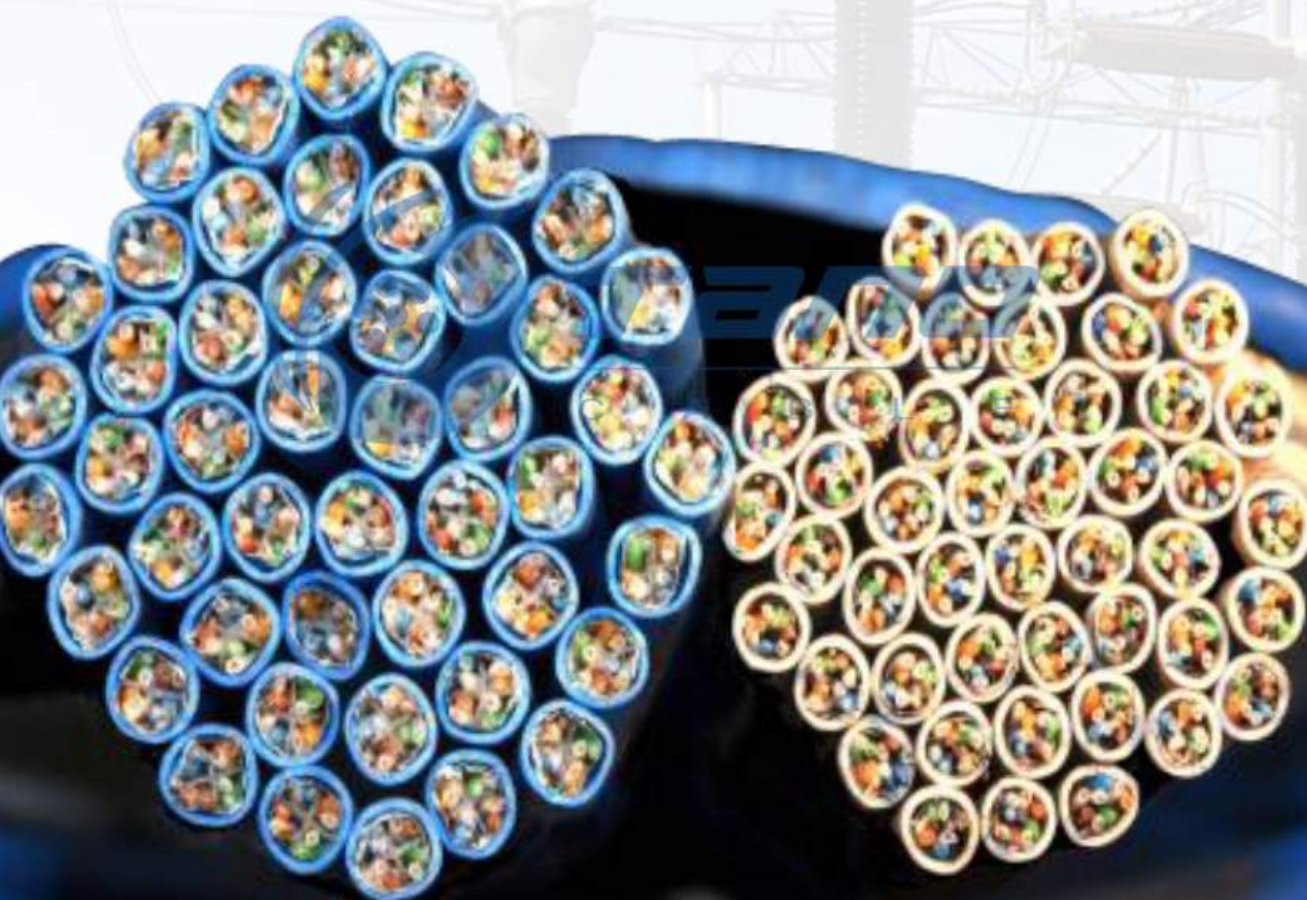


河南泰诺电缆有限公司

HENAN TANO CABLE CO.,LTD.



INSTRUMENT CABLE



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.





Operating temperature: -20°C up to + 90°C (fixed installation)
0°C to +50°C (during operation)

Minimum bending radius: 5 x OD

Conductor Area Size	mm ²	0.5	0.75	1	1.5
Conductor Stranding	No. x mm	7 x 0.3	7 x 0.37	7 x 0.44	7 x 0.53
Conductor Resistance Max	ohm/km	36	24.5	18.1	12.1
Insulation Resistance Min	Gohm/km	5	5	5	5
Capacitance Unbalance At 1kHz(pair to pair screen)	pF/250m	250			
Max. Mutual Capacitance @ 1kHz for Non OS or OS cables (except one-pair and two-pairs)	pF/m	115	115	115	115
Max. Mutual Capacitance @ 1 kHz IS/OS cables (include 1 pair and 2 pair)	pF/m	75	75	75	75
Max. L/R Ratio for adjacent cores(Inductance/Resistance)	μH/ohm	25	25	25	40
Test Voltage	Core to core	V	1000	1000	1000
	Core to screen	V	1000	1000	1000
Rated Voltage Max	V	300/500	300/500	300/500	300/500

TECHNICAL PARAMETER



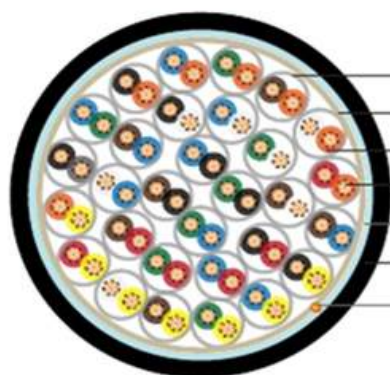
No. of Pairs	No. and Dia. of Wires	Nominal Conductor Cross-Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Dia. of Cable	Approx. Weight
	No./mm	mm ²	mm	mm	mm	kg/km
1	7/0.44	1	0.6	1.4	7.8	89
2	7/0.44	1	0.6	1.4	9.2	121
5	7/0.44	1	0.6	1.4	13.9	298

Instrument Cable Part 1 Type1 XLPE-OS-LSOH/RE-2X(St)H to BS5308 Standard

APPLICATION

The unarmored LSOH versions (Part 1 Type 1) are generally use for indoor installation and suitable for wet and damp areas. Generally used within industrial process manufacturing plants for communication, data and voice transmission signals and services, also used for the interconnection of electrical equipment and instruments, the LSOH sheath can reduce toxic smoke and fume emission.

CONSTRUCTION



PETP transparent tape

PETP transparent tape

XLPE insulation

Annealed copper conductor

Aluminium/polyester tape screen

LSOH outer sheath

Tinned copper drain wire

Conductor	Annealed or tinned copper, sizes: 0.5mm ² and 0.75mm ² multi stranded(Class 5), 0.5 mm ² , 1.0 mm ² solid(Class 1), 1.5mm ² or 2.5mm ² , multi stranded(Class 2) to BS6360
Insulation	XLPE (Cross Linked Polyethylene), or PE (optional)
Pairing	Two insulated conductors uniformly twisted together with a lay not exceeding 100mm
Color code	Refer to technical information
Blinder tape	PETP transparent tape
Collective screen	Aluminium/polyester tape is applied over the laid up pairs/metallic side down in contact with tinned copper drain wire 0.5mm ²
Outer sheath	LSOH(Low Smoke Zero Halogen) sheath
	Flame retardant to IEC60332-3-22
	Halogen free to IEC60754-1
Sheath color	Low smoke emission to IEC61034-1-2
	Black or blue

MECHANICAL AND ELECTRICAL PROPERTIES

Operating temperature: -20°C up to + 90°C (fixed installation)

0°C to +50°C (during operation)

Minimum bending radius: 5 x OD

Conductor Area Size	mm ²	0.5	0.5	0.75	1	1.5
Conductor Stranding	No. x mm	1 x 0.8	16 x 0.2	24 x 0.2	1 x 1.13	7 x 0.53
Conductor Resistance Max	ohm/km	36.8	39.7	26.5	18.2	12.3
Insulation Resistance Min	Gohm/km	5	5	5	5	5
Capacitance Unbalance at 1kHz(pair to pair screen)	pF/250m	250				

Max. Mutual Capacitance @ 1kHz for Non OS or OS cables (except one-pair and two-pairs)		pF/m	115	115	115	115	115
Max. Mutual Capacitance @ 1 kHz IS/OS cables (include 1 pair and 2 pair)		pF/m	75	75	75	75	75
Max. L/R Ratio for adjacent cores (Inductance/Resistance)		$\mu\text{H}/\text{ohm}$	25	25	25	25	40
Test voltage	Core to core	V	1000	1000	1000	1000	1000
	Core to Screen	V	1000	1000	1000	1000	1000
Rated Voltage max		V	300/500	300/500	300/500	300/500	300/500

TECHNICAL PARAMETER

Number of Pairs	Number and Diameter of Wires	Nominal Conductor Cross-Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Diameter of Cable	Approx. Weight
	No./mm	mm ²	mm	mm	mm	kg/km
1	1/0.80	0.5	0.5	0.8	5.5	35
2	1/0.80	0.5	0.5	0.8	6.8	55
5	1/0.80	0.5	0.5	1.1	10.9	125
10	1/0.80	0.5	0.5	1.2	14.4	215
15	1/0.80	0.5	0.5	1.2	16.5	300
20	1/0.80	0.5	0.5	1.3	18.8	385
30	1/0.80	0.5	0.5	1.3	22.3	545
50	1/0.80	0.5	0.5	1.5	28.5	875
1	16/0.20	0.5	0.6	0.8	6.2	60
2	16/0.20	0.5	0.6	0.8	7.6	80
5	16/0.20	0.5	0.6	1.1	12.4	210
10	16/0.20	0.5	0.6	1.2	16.5	340
15	16/0.20	0.5	0.6	1.3	19.2	440
20	16/0.20	0.5	0.6	1.3	21.7	570
30	16/0.20	0.5	0.6	1.5	26.4	780
50	16/0.20	0.5	0.6	1.7	33.4	1130
1	24/0.2	0.75	0.6	0.8	6.7	75
2	24/0.2	0.75	0.6	0.9	8.4	100
5	24/0.2	0.75	0.6	1.2	13.8	250
10	24/0.2	0.75	0.6	1.3	18.4	450
15	24/0.2	0.75	0.6	1.5	21.1	600
20	24/0.2	0.75	0.6	1.5	24.4	920
30	24/0.2	0.75	0.6	1.7	29.5	980
50	24/0.2	0.75	0.6	2	37.6	1690
1	1/1.13	1	0.6	0.8	6.6	85
2	1/1.13	1	0.6	0.8	8	115
5	1/1.13	1	0.6	1.2	13.5	290
10	1/1.13	1	0.6	1.2	17.7	500
15	1/1.13	1	0.6	1.3	20.6	670



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HENAN TANO CABLE CO.,LTD.

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

Tel.: 0086-371-60306197

Fax: 0086-371-60306197

Email: info@tanocable.com

Address: Zhengzhou City, Henan
Province, China.

Zip: 450000