



河南泰诺电缆有限公司

HENAN TANO CABLE CO.,LTD.



600/1000V, PVC INSULATED LEAD SHEATHED to IEC 60502-1



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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.





600/1000V, PVC Insulated and Lead Sheathed Cable to IEC 60502-1 Standard

APPLICATION

These power cables are used for electricity supply in low voltage installation system. They are suitable for installation in indoors and outdoors, in cable ducts, underground, in power and switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage. The lead sheath brings an enhanced resistance to aromatic hydrocarbons.

STANDARD

IEC 60502-1

CONSTRUCTION



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Conductors: The conductors shall be either of Class 1 or Class 2 of plain or metal-coated annealed copper or of plain aluminum or aluminum alloy, or of Class 5 of plain or metal-coated copper in accordance with IEC 60228.

Insulation: PVC Insulation material and thickness shall be as per IEC 60502-1, PVC material shall be Type A as per IEC 60502-1.

Color Code

Color Code (1):

1 Core: Red or Black

2 Cores: Red, Black

3 Cores: Red, Yellow, Blue

4 Cores: Red, Yellow, Blue, Black

5 Cores: Red, Yellow, Blue, Black, Green

Above 5 Cores: Black Cores with White numerals

Color Code (2):

1 Core: Brown or Blue

2 Cores: Brown, Blue

3 Cores: Brown, Black, Grey

4 Cores: Blue, Brown, Black, Grey

5 Cores: Green/Yellow, Blue, Brown, Black, Grey

Above 5 Cores: Black Cores with White numerals

Other colours can be manufactured upon request.

Assembly /Inner Covering: The inner coverings may be extruded or lapped. For cables with circular cores, except cables with more than five cores, a lapped inner covering shall be permitted only if the interstices between the cores are substantially filled. A suitable binder is permitted before application of an extruded inner covering. The materials used for inner coverings and fillers shall be suitable for the operating temperature of the cable and compatible with the insulating material. for halogen free cables, the inner covering and fillers shall also be halogen free compound.

Lead Sheath: lead or lead alloy and shall be applied as a reasonably tight-fitting seamless tube

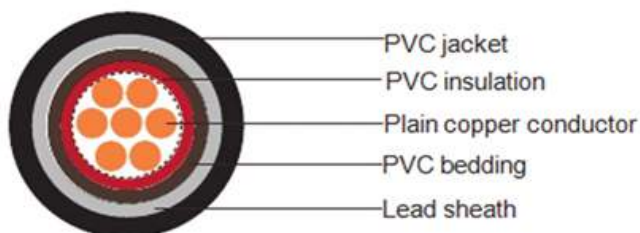
Separation Sheath: The separation sheath shall be of extruded PVC Type ST2 as per IEC 60502-1, or other material refer to outer sheath material.

Aarmor: Aluminum/galvanized steel/steel wires applied helically over the Inner Covering as per IEC 60502-1, or double aluminum/steel tapes and copper/tinned copper wire can also be manufactured upon request.

Outer Sheath: Outer sheath shall be of extruded PVC Type ST1/ST2 as per IEC 60502-1, Polyethylene type ST3/ST7, Halogen free compound ST8, Polychloroprene, chlorosulfonated polyethylene or similar polymers, type SE1 are also available on request.

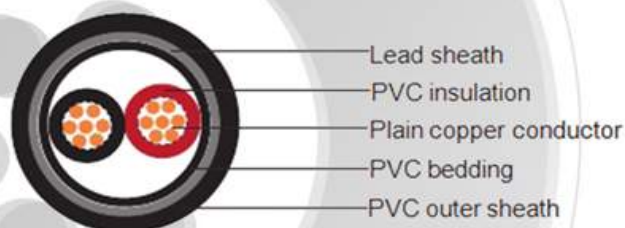
CONSTRUCTION PARAMETER

Single core(unarmoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm²	mm	mm	mm	mm	mm	mm
1x10	3.6	1	1	1.2	1.4	12.8
1x16	4.5	1	1	1.2	1.4	13.7
1x25	5.6	1.2	1	1.2	1.4	15.3
1x35	6.7	1.2	1	1.2	1.5	16.4
1x50	8	1.4	1	1.2	1.5	18.3
1x70	9.4	1.4	1	1.2	1.6	19.8
1x95	11	1.6	1	1.3	1.7	22.1
1x120	12.4	1.6	1	1.3	1.7	23.7
1x150	13.8	1.8	1	1.4	1.8	25.7
1x185	15.3	2	1	1.4	1.8	27.9
1x240	17.5	2.2	1	1.5	1.9	30.8
1x300	19.5	2.4	1	1.6	2	33.5
1x400	22.6	2.6	1.2	1.7	2.2	38
1x500	25.2	2.8	1.2	1.8	2.3	41.4
1x630	28.3	2.8	1.2	1.9	2.4	44.9

Two cores (unarmoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm
2x2.5	1.8	0.8	1	1.2	1.8	14.8
2x4	2.3	1	1	1.2	1.8	16.6
2x6	2.8	1	1	1.2	1.8	17.6
2x10	3.6	1	1	1.2	1.8	19.2
2x16	4.5	1	1	1.2	1.8	21
2x25	5.6	1.2	1	1.2	1.8	24.1
2x35	6.7	1.2	1	1.3	1.8	26.4
2x50	8	1.4	1	1.4	1.9	30.3
2x70	9.4	1.4	1	1.5	2	33.4
2x95	11	1.6	1.2	1.6	2.2	38.4
2x120	12.4	1.6	1.2	1.7	2.3	41.6
2x150	13.8	1.8	1.2	1.8	2.4	45.7
2x185	15.3	2	1.4	1.9	2.6	50.5
2x240	17.5	2.2	1.4	2.1	2.8	56.4
2x300	19.5	2.4	1.6	2.3	3	62.2

Three cores (unarmoured)



Lead sheath
PVC insulation
Plain copper conductor
PVC bedding
PVC jacket

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Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm
3x1.5	1.4	0.8	1	1.2	1.8	14.5
3x2.5	1.8	0.8	1	1.2	1.8	15.3
3x4	2.3	1	1	1.2	1.8	17.3
3x6	2.8	1	1	1.2	1.8	18.3
3x10	3.6	1	1	1.2	1.8	20.1
3x16	4.5	1	1	1.2	1.8	22

3x25	5.6	1.2	1	1.3	1.8	25.4
3x35	6.7	1.2	1	1.3	1.9	28
3x50	8	1.4	1	1.5	2	32.2
3x70	9.4	1.4	1.2	1.6	2.1	36
3x95	11	1.6	1.2	1.7	2.3	40.9
3x120	12.4	1.6	1.2	1.8	2.4	44.3
3x150	13.8	1.8	1.4	1.9	2.5	49.2
3x185	15.3	2	1.4	2	2.7	53.8
3x240	17.5	2.2	1.6	2.2	2.9	60.6
3x300	19.5	2.4	1.6	2.4	3.1	66.5

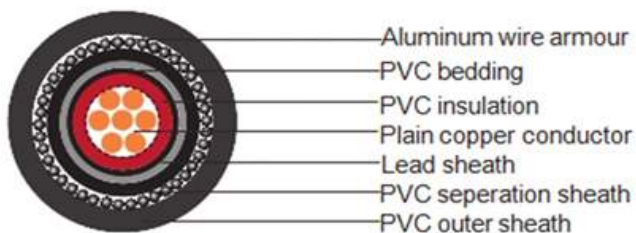
Four cores (unarmoured)



- Lead sheath
- Plain copper conductor
- PVC insulation
- PVC bedding
- PVC jacket

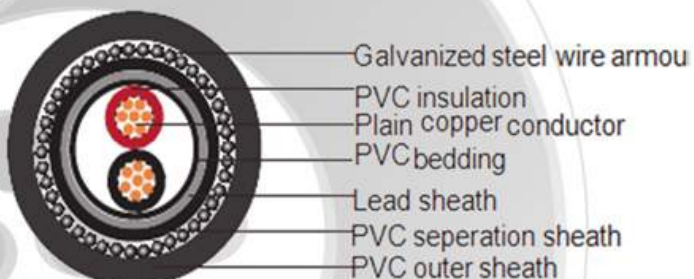
Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm
4x1.5	1.4	1	1	1.2	1.8	15.2
4x2.5	1.8	1	1	1.2	1.8	16.2
4x4	2.3	1	1	1.2	1.8	18.4
4x6	2.8	1	1	1.2	1.8	19.6
4x10	3.6	1	1	1.2	1.8	21.5
4x16	4.5	1	1	1.2	1.8	23.8
4x25	5.6	1	1	1.3	1.8	27.7
4x35	6.7	1	1	1.4	1.9	30.7
4x50	8	1.2	1.2	1.6	2.1	35.8
4x70	9.4	1.2	1.2	1.7	2.2	39.6
4x95	11	1.2	1.2	1.8	2.4	45.1
4x120	12.4	1.4	1.4	1.9	2.6	49.4
4x150	13.8	1.4	1.4	2	2.7	54.3
4x185	15.3	1.6	1.6	2.2	2.9	60
4x240	17.5	1.6	1.6	2.4	3.1	67.1
4x300	19.5	1.6	1.6	2.6	3.3	73.7

Single core (aluminum wire armoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Separation Thickness	Nominal dia. of Aluminium wire armour	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm	mm	mm
1x35	6.7	1.2	1	1.2	1	1.6	1.8	22
1x50	8	1.4	1	1.2	1	1.6	1.8	23.8
1x70	9.4	1.4	1	1.2	1	1.6	1.8	25.3
1x95	11	1.6	1	1.3	1	1.6	1.8	27.6
1x120	12.4	1.6	1	1.3	1	1.6	1.9	29.2
1x150	13.8	1.8	1	1.4	1	1.6	2	31.4
1x185	15.3	2	1	1.4	1.1	2	1.9	29.1
1x240	17.5	2.2	1	1.5	1.1	2	2	31.9
1x300	19.5	2.4	1	1.6	1.2	2	2.1	34.4
1x400	22.6	2.6	1.2	1.7	1.3	2.5	2.2	39.7
1x500	25.2	2.8	1.2	1.8	1.3	2.5	2.3	42.9
1x630	28.3	2.8	1.2	1.9	1.4	2.5	2.4	46.2

Two cores (Galvanized steel wire armoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Separation Thickness	Nominal dia. of Steel wire armour	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm	mm	mm
2x2.5	1.8	0.8	1	1.2	1	1.25	1.8	14.9
2x4	2.3	1	1	1.2	1	1.25	1.8	16.7
2x6	2.8	1	1	1.2	1	1.6	1.8	18.4
2x10	3.6	1	1	1.2	1	1.6	1.8	20
2x16	4.5	1	1	1.2	1	1.6	1.8	21.8
2x25	5.6	1.2	1	1.2	1	1.6	1.8	24.8
2x35	6.7	1.2	1	1.3	1.1	1.6	1.8	27
2x50	8	1.4	1	1.4	1.1	2	2	31.5
2x70	9.4	1.4	1	1.5	1.2	2	2.1	34.5
2x95	11	1.6	1.2	1.6	1.3	2.5	2.3	40.3
2x120	12.4	1.6	1.2	1.7	1.3	2.5	2.4	43.3
2x150	13.8	1.8	1.2	1.8	1.4	2.5	2.5	47.2
2x185	15.3	2	1.4	1.9	1.5	2.5	2.6	51.6
2x240	17.5	2.2	1.4	2.1	1.6	2.5	2.8	57.2
2x300	19.5	2.4	1.6	2.3	1.7	2.5	3	62.8

Three cores(Galvanized steel wire armoured)



Galvanized steel wire armour
PVC insulation
Plain copper conductor
PVC bedding
Lead sheath
PVC separation sheath
PVC outer sheath

Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Separation Thickness	Nominal dia. of Steel wire armour	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm	mm	mm
3x1.5	1.4	0.8	1	1.2	1	1.25	1.8	14.6
3x2.5	1.8	0.8	1	1.2	1	1.25	1.8	15.4
3x4	2.3	1	1	1.2	1	1.6	1.8	18.1
3x6	2.8	1	1	1.2	1	1.6	1.8	19.1
3x10	3.6	1	1	1.2	1	1.6	1.8	20.9
3x16	4.5	1	1	1.2	1	1.6	1.8	22.8
3x25	5.6	1.2	1	1.3	1	1.6	1.8	26

3x35	6.7	1.2	1	1.3	1.1	2	1.9	29.4
3x50	8	1.4	1	1.5	1.2	2	2	33.3
3x70	9.4	1.4	1.2	1.6	1.2	2	2.1	37
3x95	11	1.6	1.2	1.7	1.3	2.5	2.3	42.6
3x120	12.4	1.6	1.2	1.8	1.4	2.5	2.4	45.9
3x150	13.8	1.8	1.4	1.9	1.5	2.5	2.6	50.4
3x185	15.3	2	1.4	2	1.6	2.5	2.7	54.8
3x240	17.5	2.2	1.6	2.2	1.7	2.5	2.9	61.2
3x300	19.5	2.4	1.6	2.4	1.8	3.15	3.2	68.2

Four cores(Galvanized steel wire armoured)



Galvanized steel wire armour
PVC bedding
Plain copper conductor
PVC insulation
Lead sheath
PVC separation sheath
PVC outer sheath

Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Separation Thickness	Nominal dia. of Steel wire armour	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm	mm	mm
4x1.5	1.4	0.8	1	1.2	1	1.25	1.8	15.3
4x2.5	1.8	0.8	1	1.2	1	1.25	1.8	16.3
4x4	2.3	1	1	1.2	1	1.6	1.8	19.2
4x6	2.8	1	1	1.2	1	1.6	1.8	20.4
4x10	3.6	1	1	1.2	1	1.6	1.8	22.3
4x16	4.5	1	1	1.2	1	1.6	1.8	24.5
4x25	5.6	1.2	1	1.3	1.1	2	1.9	29.1
4x35	6.7	1.2	1	1.4	1.1	2	2	31.9
4x50	8	1.4	1.2	1.6	1.2	2	2.1	36.7
4x70	9.4	1.4	1.2	1.7	1.3	2.5	2.3	41.4
4x95	11	1.6	1.2	1.8	1.4	2.5	2.5	46.6
4x120	12.4	1.6	1.4	1.9	1.5	2.5	2.6	50.6
4x150	13.8	1.8	1.4	2	1.6	2.5	2.7	55.3
4x185	15.3	2	1.6	2.2	1.7	2.5	2.9	60.6
4x240	17.5	2.2	1.6	2.4	1.8	3.15	3.2	68.7
4x300	19.5	2.4	1.6	2.6	1.9	3.15	3.4	74.9



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