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**一方电气股份有限公司**  
**YIFANG ELECTRIC GROUP INC.**

中国·郑州  
ZHENGZHOU CHINA

Based in henan Facing the whole country Look around the world

Whole-hearted service Win-win future



# Contens >>

>> Brief Introduction .....	01
>> Enterprise Qualification .....	03
>> Production & Test Equipment .....	09
>> Products show .....	14
>> Sales map .....	15
>> Development path .....	17
>> Bare Conductor .....	19
1. AAC/AAAC Conductor .....	20
2. ACSR/AACSR/TACSR Conductor .....	21
3. ACAR Conductor .....	22
4. GSW/ACS/CCS Conductor .....	23
5. Bare Copper Conductor (BCC) .....	24
6. Tie Wire .....	25
>> Overhead Insulated Cable .....	26
1. Low Voltage Overhead Insulated Cable .....	27
2. Medium Voltage Overhead Insulated Cable .....	28



>> Cable and Wire for Electric Equipment .....	29
1. PVC and XLPE Insulated Wire .....	30
2. Rubber Insulated Electric Wire .....	31
3. Control Cable .....	32
4. Instrument Cable .....	33
>> Power Cable .....	34
1. 0.6/1kV Power Cable .....	35
2. Power Cable for voltage up to 46kV .....	36
>> URD Cable .....	39
>> Concentric Cable .....	41
>> Mining Cable .....	43
1. PVC/XLPE Insulated Mining Power Cable .....	44
2. Rubber Insulated Mining Cable .....	45
>> Other Cable .....	46
1. Cathodic Protection Cable .....	47
2. Frequency Conversion Cable .....	48
3. Welding Cable .....	49
4. Alarm Cable .....	50



## Brief Introduction

Yifang Electric Group Inc. is a large joint-stock, hi-tech enterprise established in 2001 with a registered capital of RMB100 million. We are mainly specialized in wires & cables, including designment, production and sales. Located in No.7, Changchun Road, High-Tech. Industry Area, Zhengzhou City, our factory covers an area of more than 30,000m<sup>2</sup>, less than 5km away from LianHuo, ZhengShao Expressway and 7km from 310 & 107 National highways. The geographic position is extremely advantageous.

There are more than 200 staffs in our factory including over 50 technical personnel. The fixed asset is RMB80 million. Our sales network includes direct sale team and distribution all over China, meanwhile, we have one wholly-owned subsidiary expanding the oversea sales channel and market independently.

Yifang Electric Group Inc. have over 150 sets advanced cable producing equipment, complete test equipment, cooperated with Henan Province Product Quality Supervision and Inspection Center, we built one highest standard testing lab for fire-resistant & flame retardant Testing in China. Our technical capability has reached advanced levels at home and abroad. The annual production capacity is RMB 1.0 billion -RMB 1.5 billion.

Our main products include: XLPE insulated power cable with rated voltage up to 35kv (including flame retardant, fire resistant series), PVC insulated power cable (including flame retardant, fire resistant series), control cable (including flame retardant, fire resistant series), overhead insulated cable, Aerial Bundle Cable, AAC,ACSR,AAAC,AACSR,TACSR,ACAR GSW etc, with a total of more than 20 varieties in 15,000 specifications. The management

system of products quality is scientific and procedural, the products are widely used in various sectors of national economy such as power, energy, communication, petroleum, chemical, steel, municipal construction, Huge venues, civil architecture etc.

Based on local market, Yifang Electric Group Inc. energetically expands domestic market. Our sales network spans across Shanghai, Jiangxi, Anhui, Inner Mongolia, Gansu, and other regions in China. Meanwhile, with own IM/EX right, we are striving to exploit the overseas market. We can not only produce cables according to IEC, ASTM, DIN Standards etc, but also have the capacity to design and produce wires and cables according to the requirement of customers. Our Products are sold to countries such as Russia, Australia, Chile, Singapore etc., the overseas markets cover Southeast Asia, Africa, Americas, Middle East, and Europe markets, the export sales increases annually.

Yifang Electric Group Inc. has its feet in Henan Province, keeping in view to all over of the country, taking a brand view to the world. "Standing in the central of China, Covering the entire world" is our business philosophy, "Pragmatic, Respect, Efficiency, Innovation" is our rules of conduct, "Enjoying the happiness of the work" is our spirit, "mutually, learn from each other, win-win" is the cooperative attitude of our company. Adhere to "customers first, quality first" business principles, with attractive Quality products and better service, we are always willing to cooperate sincerely and develop mutually with old and new friends all over the world.







### UL/CSA

### CCC CERTIFICATE

**CERTIFICATE OF COMPLIANCE**

Certificate Number: 20170309-E490018  
 Report Reference: E490018-20170301  
 Issue Date: 2017-MARCH-09

Issued to: YIFANG ELECTRIC GROUP INC  
 No.7 Changchun Road, High Tech Industry Area  
 Zhengzhou  
 Henan 450001 CHINA

This is to certify that representative samples of COMPONENT - APPLIANCE WIRING MATERIAL SINGLE-CONDUCTOR THERMOPLASTIC-INSULATED WIRE, Styles: 1300, 1331, 1332, 1333.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 758, Appliance Wiring Material.  
 Additional Information: See the UL Online Certifications Directory at [www.ul.com/global](http://www.ul.com/global) for additional information.

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark may be used in conjunction with the required Recognized Mark. The Recognized Component Mark is required when specified in the UL Directory preceding the recognition or under "Marking" for the individual recognition.

Recognized components are incomplete in certain constructional features or included in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL, LLC.

Look for the UL Certification Mark on the product.



Page 1 of 1

**CERTIFICATE OF COMPLIANCE**

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 No.7 Changchun Road, High Tech Industry Area  
 Zhengzhou  
 Henan 450001 CHINA

This is to certify that representative samples of COMPONENT - APPLIANCE WIRING MATERIAL Appliance Wires, Extruded FEP Insulated Single, Class I, Group A, B, or A/B.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 758, Appliance Wiring Material  
 CSA C22.2 No. 210, Appliance Wiring Material Products  
 Additional Information: See the UL Online Certifications Directory at [www.ul.com/global](http://www.ul.com/global) for additional information.

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

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Look for the UL Certification Mark on the product.



Page 1 of 1

**CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION**

CERTIFICATE NO.: 200301010506819

**NAME AND ADDRESS OF THE APPLICANT**  
 Yifang Electric Group Inc.  
 No.7 Changchun Road · Zhengzhou High and New Technology Industry Area, Henan Province, China

**NAME AND ADDRESS OF THE MANUFACTURER**  
 Yifang Electric Group Inc.  
 No.7 Changchun Road · Zhengzhou High and New Technology Industry Area, Henan Province, China

**NAME AND ADDRESS OF THE FACTORY**  
 Yifang Electric Group Inc.  
 No.7 Changchun Road · Zhengzhou High and New Technology Industry Area, Henan Province, China

**PRODUCT NAME, MODEL AND SPECIFICATION**  
 PVC insulated and PVC sheathed cables  
 60227 IEC 10(BV) 300500V 1.5-362-5 (2); BVV 300500V 0.75-185; BLVV 300500V 2.5-185; BVVB 300500V 0.75-102-3 (2); BLVVB 300500V 2.5-102-3 (2);

**THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS**  
 GB/T 5023.4-2008/IEC60227-4:1997, JB/T8734.2-2016

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification (REFNO: CNCA-C81-01-2014).

Valid from: Dec.01,2020 Valid until: Dec.01,2025

The validity of the certificate is subject to positive result of the regular follow-up inspection by issuing certification body until the expiry date.

Date of original issued: Sep.28,2020

certificate information is available through CNCA's website: [www.cnca.gov.cn](http://www.cnca.gov.cn) or China National Accreditation Center for Compulsory Assessment (CNAS C0018)

President:   
 Lu Mei




**CHINA QUALITY CERTIFICATION CENTRE**  
 Section 9, No. 138, Huanhuo Rd, Beijing 100017, P. R. China Tel: +86-10-63882444

**CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION**

CERTIFICATE NO.: 200301010506821

**NAME AND ADDRESS OF THE APPLICANT**  
 Yifang Electric Group Inc.  
 No.7 Changchun Road · Zhengzhou High and New Technology Industry Area, Henan Province, China

**NAME AND ADDRESS OF THE MANUFACTURER**  
 Yifang Electric Group Inc.  
 No.7 Changchun Road · Zhengzhou High and New Technology Industry Area, Henan Province, China

**NAME AND ADDRESS OF THE FACTORY**  
 Yifang Electric Group Inc.  
 No.7 Changchun Road · Zhengzhou High and New Technology Industry Area, Henan Province, China

**PRODUCT NAME, MODEL AND SPECIFICATION**  
 PVC insulated non-sheathed cables and wires  
 60227 IEC 01(BV) 450750V 1.5-400; 60227 IEC 02(RV) 450750V 1.5-240; 60227 IEC 06(RV) 300500V 0.5-1; BLV 450750V 2.5-400; BV 300500 0.75-1; BVV 450750V 2.5-185;

**THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS**  
 GB/T 5023.3-2008/IEC60227-3:1997, JB/T8734.2-2016

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# Production & Test Equipments

## MAIN PRODUCTION EQUIPMENTS

Equipment Name	Qty (set)	Equipment Name	Qty (set)
CCV line	2	Derivometer	2
Φ 150 Plastic Extruder	2	Armouring machine	5
Φ 150+65 Plastic Extruder	1	Copper tape screened machine	2
Φ 90 Plastic Extruder	1	Continuous interlock armoured machine	1
Φ 90 +65 Plastic Extruder	1	Stranding Machine	16
Φ 70 Plastic Extruder	2	FC-16 tin-plating doubling winder	1
Φ 65 Plastic Extruder	2	Drawing machine of copper	5
Injection molding machine	1	Drawing machine of aluminium	5
Φ 1000 Cabling Machine	2	Braiding machine	1
Φ 1600 Cabling Machine	2	Pit annealing oven	2
Φ 1250 Cabling Machine	2	Crosslinking room	2
Aging furnace	1	Vertical mica wrapping machine	2

## SOME PRODUCTION MACHINES



Work shop No.1



1600mm Cabling Machine



84 Reels Stranding Machine



54 Reel Stranding Machine



Interlock armorng maxhine



150 Plastic Extruder Machine





## SOME PRODUCTION MACHINES



Copper tape screen machine



Copper Rod Drawing Machine



0+3CCV Line



XLPE Derivometer



XLPE Material Processing Cleanroom



PVC Wire Equipment

## MAIN TEST EQUIPMENTS

Equipment Name	Quantity (Piece)	Equipment Name	Quantity (Piece)
Dc resistance tester	2	Press vulcanizer	1
Partial discharge detecting system	1	Fault location device	1
High voltage testing equipment	1	High impedance fault locator bridge	1
High-insulation resistance tester	1	Cable fault locator	1
Constant temperature water tank	1	Vertical flame tester	1
Electronic tension tester	2	Combustion tester for mining cable	1
Projector for thickness tester	1	Oxygen index tester	1
Extensometer	1	Bunched cables combustion test facility	1
Electronic weigher	12	Fire-resistant testing apparatus	1
Direct reading type densimeter	1	Micrometer	11
Electrothermal constant-temperature dry box	1	Vernier caliper	11
Aging test chamber	1	Setallographic microscope	1
Micro thermometer	1	Metallographic sample pre grinding machine	1
Winding test machine	3	Digimatic micrometer	1
Torsional testing machine	1	Wire elongation testing machine	1
Ac spark tester	1	Power frequency spark machine	2



### SOME TEST EQUIPMENTS



Electronic Tension Tester



Electronic densitometer



Projector for Thickness Tester



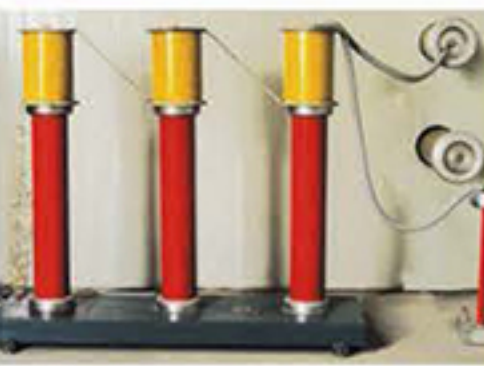
AC Voltage testing system



Partial Discharge Test System for MV & HV cable



Partial Discharge Test System for MV cable



Series Resonance Testing System



Electrothermal Constant-Temperature Dry Box



DC resistance tester

## Products show

### GOODS YARD



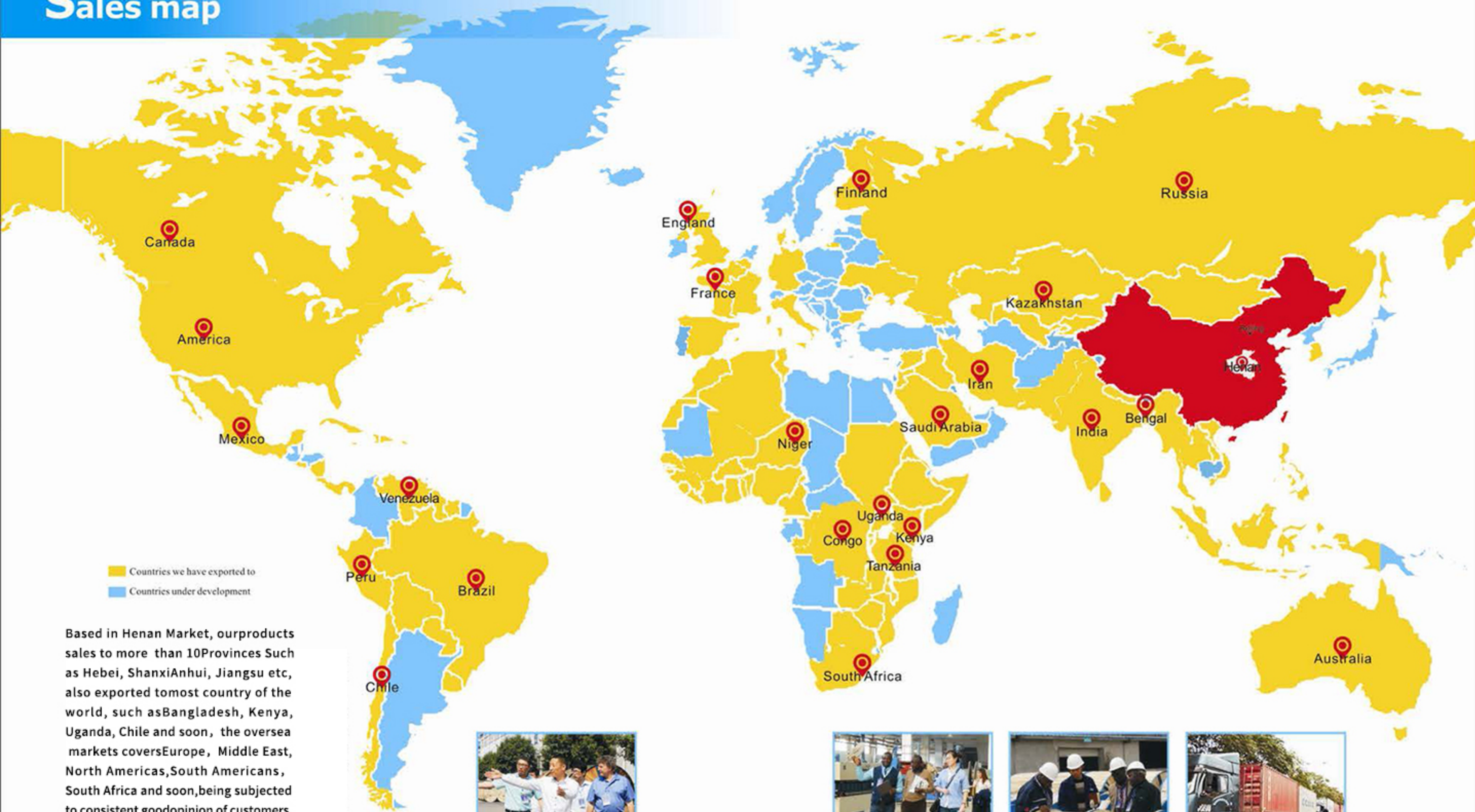
### PACKING



### LOADING



# Sales map



■ Countries we have exported to  
■ Countries under development

Based in Henan Market, our products sales to more than 10 Provinces Such as Hebei, Shanxi, Anhui, Jiangsu etc, also exported to most country of the world, such as Bangladesh, Kenya, Uganda, Chile and soon, the oversea markets covers Europe, Middle East, North Americas, South Americans, South Africa and soon, being subjected to consistent good opinion of customers.



US customer visit our factory



African client visit our factory



Exporting Container Fleet



## Development path



# Part 1

## Bare Conductor



- AAC/AAAC Conductor
- ACSR/AACSR /TACSR Conductor
- ACAR Conductor
- GSW/ACS/CCS Conductor
- Bare Copper Conductor(BCC)
- Tie Wire

### AAC/AAAC Conductor

#### >> Application

Mainly for Overhead power transmission and primary and secondary distribution.

#### >> Applicable standards

AAC: ASTM B 231, BS EN-50182, AS/NZS 1531, DIN 48201, CSA 61089, IEC 61089, GB/T 1179, JIS3109, CSA C49, BS215

AAAC: ASTM B-399, BS EN-50182, AS/NZS 1531, DIN 48201, CSA 61089, IEC 61089, GB/T 1179, BS3242

#### >> Production Scope

Max. Cross-Section 5000MCM/2500mm<sup>2</sup> , Max. Stranded number 127Nos.

#### >> Construction

For AAC: Type 1350-H19 aluminium wires, concentrically stranded;  
For AAAC: Type 6201-T81 aluminium wires, concentrically stranded.

*\*we can design and produce according to client's requirement.*





## ACSR/AACSR /TACSR Conductor

### >> Application

Used as bare overhead transmission cable and as primary and secondary distribution cable. ACSR/AACSR/TACSR offers optimal strength for line design. Variable steel core stranding enables desired strength to be achieved without reducing ampacity.

### >> Applicable standards

ASTM B-232, BS EN-50182, CSA C 61089, AS/NZS 3607, DIN 48204, IEC 61089, GB/T 1179, JIS 3110, CSA C49, ASTM B711

### >> Production Scope

Max. Cross-Section 3500MCM/1750mm<sup>2</sup>, Max. Stranded number 127Nos.

### >> Construction

For ACSR: Type Aluminium 1350-H19 wires, concentrically stranded around galvanize coated steel core wire

For AACSR: Type Aluminium alloy 6201-T81 wires, concentrically stranded around galvanize coated steel core wire

For TACSR: Thermal resistant aluminium alloy wires, concentrically stranded around galvanize coated steel core wire

*\*we can design and produce according to client's requirement.*



## ACAR Conductor

### >> Application

Aluminum Conductor Alloy Reinforced (ACAR) cable is an excellent conductor choice where current carrying capacity, higher strength and a lower conductor weight are critical to the line design.

### >> Applicable standards

ASTM B-524, BS EN-50182, CSA C 61089, IEC 61089, GB/T 1179

### >> Production Scope

Max. cross-section 3500MCM/1750mm<sup>2</sup>, Max. stranded number 127Nos.

### >> Construction

Aluminum Conductor Alloy Reinforced (ACAR) cable has aluminum 1350 H-19 wires stranded around a 6201-T81 aluminum alloy core concentrically.

*\*we can design and produce according to client's requirement.*





## GSW/ACS/CCS Conductor

### >> Application

Galvanized Steel wire (GSW) is used for staying the poles or as the core of ACSR  
Aluminium Clad Steel (ACS) used as lighting conductor ground wire;  
Copper Clad Steel (CCS) used as ground wire

### >> Applicable standards

GSW: ASTM A475, BS183, CAN/CSA-G12.  
ACS: ASTM B416, YB/T 124-1997.  
CCS: ASTM B288.

### >> Production Scope

Wire dia. from 1.20mm to 5.60mm  
Max. Stranded Number: 37 Nos.

### >> Construction

Galvanized Steel/Aluminum Clad Steel/Copper Clad Steel Wire, concentrically Stranded.

*\*we can design and produce according to client's requirement.*



## Bare Copper Conductor(BCC)

### >> Application

Used as ground wire, Overhead transmission system, Overhead traction system  
Transformer earthing (occasionally)

### >> Applicable standards

ASTM B8-04,BS7884,GB / T 12970,DIN4801-7

### >> Production Scope

There is hard drawn and soft drawn wire, the Dia. of the stranded wire from 0.2mm to 5.0mm, Max. 127 Stranding Nos.

### >> Construction

Bare copper wire, concentrically Stranded.

*\*we can design and produce according to client's requirement.*





## Tie Wire

### >> Application

Aluminum tie wire is a soft solid aluminum wire that is used in overhead transmission and distribution line construction to mechanically secure components such as conductors to pin insulators.

### >> Applicable standards

ASTM B609

### >> Production Scope

The cross section of the wire from 8AWG to 2AWG, single wire.

### >> Construction

Solid Annealed Aluminum wire.

A small piece of size for reference:

Size AWG	Diameter of solid wire, inches	Tensile of solid wire, Mpa	Weight(lbs/1000ft)
8	0.129	60~95	15.2
6	0.162	60~95	24.1
4	0.204	60~95	38.1
2	0.258	60~95	61

\*we can design and produce according to client's requirement.



## Part 2 Overhead Insulated Cable



- Low Voltage Overhead Insulated Cable
- Medium Voltage Overhead Insulated Cable





## Low Voltage Overhead Insulated Cable

### >> Application

Used primarily for overhead and distribution line, or to supply 120/220V aerial service for service at construction sites, as a service drop(power pole to service entrance) as a secondary cable(Pole to Pole), or street lighting. For service at 1000V or lower at a maximum conductor temperature of 75°C or 90°C.

### >> Applicable standards

ANSI/ICEA S-70-547, ANSI/ICEA S-76-474, NFC 33-209, IEC60502-1, BS7870.50, VDE 027-626

### >> Production Scope

Phase Core: 1 to 6 Cores, Cross section from 6AWG to 500MCM  
Bare Neutral: Cross Section from 6AWG to 500MCM

### >> Construction

Phase Core:  
Conductor: Hard bare copper/Aluminum/Aluminum alloy etc.  
Insulation: PVC/XLPE/PE  
Neutral Conductor (optional): ACSR /AAAC/AAC  
Insulation: PVC/XLPE/PE  
Street Lighting core (optional):  
Conductor: AAC  
Insulation: PVC/XLPE/PE

\*we can design and produce according to client's requirement.



## Medium Voltage Overhead Insulated Cable

### >> Application

The product is used in aerial Power line at rated voltage 3-35kV.

### >> Applicable standards

IEC60502-2, DIN VDE 0276-620, ICEA S-93-639, AS/NZS 3599, SANS 1713, NFC33-226

### >> Production Scope

Number of Core: 1, 3 or 3+K  
Voltage: Up to 45 kV  
Cross Section for each Core: from 30mm<sup>2</sup> to 800mm<sup>2</sup>

### >> Construction

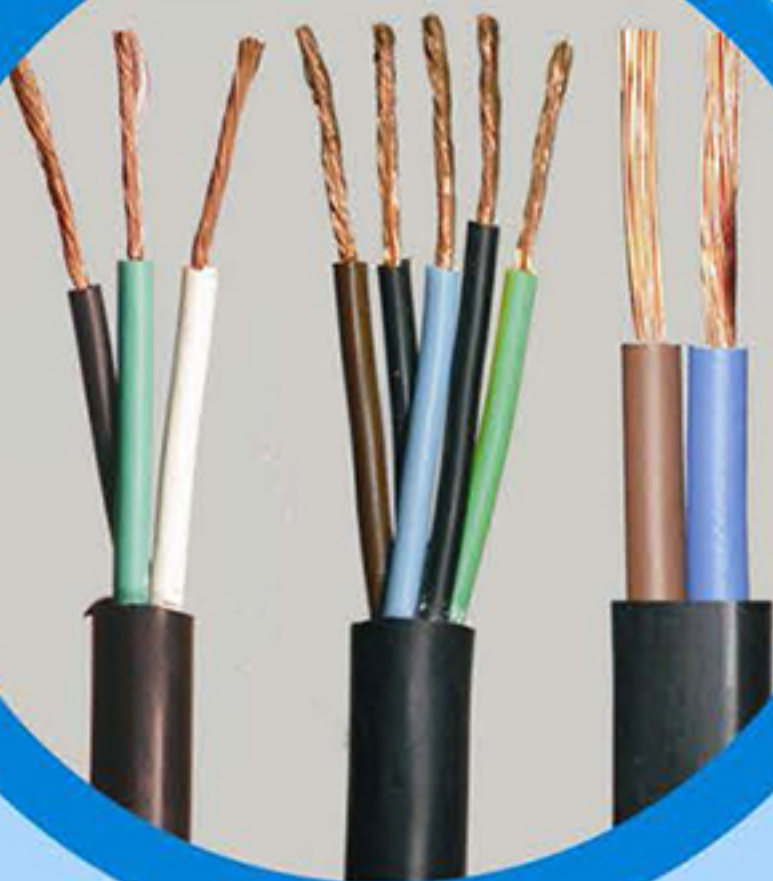
Phase Core  
Conductor: Stranded copper/ Aluminum/Aluminum alloy.  
Insulation: XLPE / TRXLPE  
Metallic screen (optional): Copper tape/Copper wire/Copper wire + tape / Al tape  
Jacket: PVC/PE  
Messenger Conductor (optional):  
Conductor: ACSR /GSW/AAAC  
Insulation(Optional): PVC/ XLPE/ TRXLPE

\*we can design and produce according to client's requirement.



## Part 3

### Cables and Wires for Electric Equipment



- PVC Insulated wire
- Rubber Insulated Electric Wire
- Control Cable
- Instrument Cable

### PVC Insulated wire

#### >> Application

Mainly used in low-voltage power supply, connect a variety of electric equipment.

#### >> Applicable standards

UL83, IEC60227, GB/T5023, DIN VDE 0281

#### >> Production Scope

Voltage 1kV or below

Conductor type: Flexible, Stranded or solid (class 1, 2, 5 and 6)

Cross Section Area: 0.12mm<sup>2</sup> to 600mm<sup>2</sup>

Core: from 1 to 61 cores

Color of insulation: yellow/green, black, blue, brown, grey etc.

#### >> Construction

Conductor: Copper or Aluminum

Insulation: PVC

Sheath (optional): PVC or Nylon

*\*we can design and produce according to client's requirement.*





## Rubber Insulated Electric Wire

### >> Application

Mainly used in low-voltage power supply, in various movable electric equipment and tools.

### >> Applicable standards

UL44, IEC60245, DIN VDE 0207

### >> Production Scope

Voltage 1kV or below

Conductor type: Flexible, Stranded (class 5 and 6)

Cross Section Area: 0.5mm<sup>2</sup> to 600mm<sup>2</sup>

Core: from 1 to 61 cores

Color of insulation: yellow/green, black, grey, brown, blue etc.

### >> Construction

Conductor: Copper

Insulation: Rubber, such as EPR, CPE etc

Braiding(optional): Copper, Tinned Copper or copper clad aluminum

Sheath (optional): CPE PCP CSP or NBR/PVC

*\*we can design and produce according to client's requirement.*



## Control Cable

### >> Application

Suitable for the interconnection in controlling, protecting and measuring system.

### >> Manufactured standards

GB/T9330 IEC60227 IEC60502

### >> Production Scope

Voltage 1kV or below

Conductor type: Flexible, Stranded or solid (class 1, 2, and 5)

Cross Section Area: 0.5mm<sup>2</sup> to 10mm<sup>2</sup>

Core: from 2 to 61 cores

Color of insulation: Red, yellow, yellow/green, white, black, grey, brown, orange etc.

Core's identification: by colour, Number or others as per customers request

### >> Construction

Conductor: IEC60228 class 2 and class 5 copper/Aluminum etc.

Insulation: PVC/XLPE/EPR

Shield (optional): Copper tape/Al-Mylar tape/Braiding

Aarmor (optional): Galvanized steel wire/ two layers of steel tape gap-wrapped

/Galvanized steel interlocked armour

/Aluminum alloy interlocked armour

Outer Sheath: PVC, PE, or other special requirements

*\*we can design and produce according to client's requirement.*



## Instrument Cable

### >> Application

Mainly used in the computer network and control systems, as the connection wires. Capacity of resisting disturbance is relatively strong.

### >> Applicable standards

BS 5308, IEC60502

### >> Production Scope

Voltage: 1kV or below

Conductor type: Stranded or solid (class 1 or 2)

Nominal Cross Section Area: 0.5mm<sup>2</sup> to 6mm<sup>2</sup>

Pair No.: 1-61pairs

### >> Construction

Conductor: Copper or tinned copper

Insulation: PVC /PE /XLPE

Individual Screen (optional): Aluminum foil with drain wire, Copper wire braiding, Copper tape

Overall Screen: Aluminum foil with drain wire, Copper wire braiding, Copper tape

Aarmor (optional): Steel Tape / Steel Wire

Sheath: PVC, PE, LSHF, or other special requirements

Core's Color:

One Pair: Black/White Pair

Two Pairs and above: black/White Pairs with Numbers 1, 2....n or color.

Color of Sheath: Black, blue or customer designated

*\*we can design and produce according to client's requirement.*



## Part 4 Power Cables



• 0.6/1 kV Power Cable

• Power Cable for voltage up to 46kV



## 0.6/1kV Power Cable

### >> Application

The cable is applied to fixed installation for rated voltage 0.6/1kV of power transmission and distribution line.

### >> Applicable standards

IEC60502, GB/T12706

### >> Production Scope

Nominal Cross-section: 1.5-1000mm<sup>2</sup>

Rated Voltage: 600/1000V

Cores: 1, 2, 3, 4, 5, 2+1, 3+1, 3+2, 4+1 etc.

Color of insulation: Red, Yellow, Green, Blue, Black, yellow/green.



### >> Construction

Conductor: Copper or aluminum

Insulation: PVC or XLPE

Inner sheath (Optional): PVC

Armored (optional):

Galvanized steel wire/Aluminum wire/Galvanized steel tape/Aluminum tape/Aluminum alloy interlocked armor.

Outer Sheath: PVC, PE, or other special requirements.



*\*we can design and produce according to client's requirement.*



## Power Cable for voltage up to 46kV

### >> Application

These products apply for power transmission and distribution line at AC rated voltage up to 46kV.

### >> Applicable standards

IEC60502, BS6622, SANS1339, AS/NZS1429.1, DIN VDE 0276-626, NFC 33-226, IEC60840, ICEA S-93-639, ICEA S-94-649



### >> Production Scope

#### (a) National standard

Rated Voltage(kV)	3.6/6	6/6	6/10	8.7/10	8.7/15	12/20	18/20	18/30	21/35	26/35
Core Number	1core or 3cores									
Cross-section mm <sup>2</sup>	1C	25-800			35-800					
	3C	25-400			35-400					

#### (b) IEC/BS/DIN /GB standard

Rated Voltage(kV)	3.6/6	3.8/6.6	6/10	6.6/11	8.7/15	12/20	12.7/22	15/20	15/25	18/30	19/33	20.8/36
Core Number	1core or 3cores											
Cross-section mm <sup>2</sup>	1C	25-800			35-800							
	3C	25-400			35-400							

#### (c) ICEA standard

Rated Voltage(V)	5001-8000	8001-15000	15001-25000	25001-28000	28001-35000	35000-46000
Core Number	1core or 3cores					
Cross-section AWG or kcmil	1C	6AWG ~1600kcmil	2AWG ~1600kcmil	1AWG~1600kcmil		2AWG ~1600kcmil
	3C	6AWG ~800kcmil	2AWG ~800kcmil	1AWG~800kcmil		2AWG ~800kcmil
						1/0AWG ~1600kcmil
						4/0AWG ~800kcmil





### >> Construction

Conductor: IEC60228 class 1 class 2 bare copper/Aluminum etc

Conductor Screen: Semi-conducting compound

Insulation: XLPE

Insulation Screen: Semi-conducting compound

Core: 1 core or 3 cores

Shield: Copper wire/ Copper tape/AL-Plastic tape

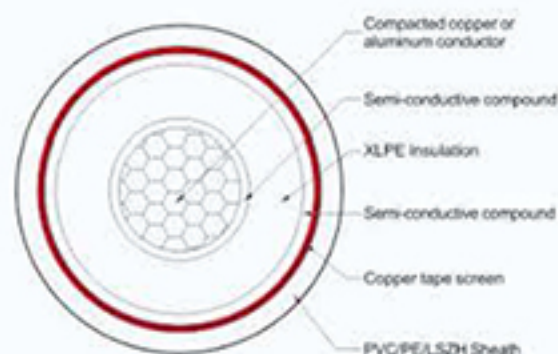
Inner Sheath( optional): PVC/ PE/ LSZH

Armoured ( optional): Galvanized steel wire/Aluminum wire/Two layers of Aluminum tape gap-wrapped /Two layers of steel tape gap-wrapped / Galvanized steel interlocked armour/Aluminum alloy interlocked armour

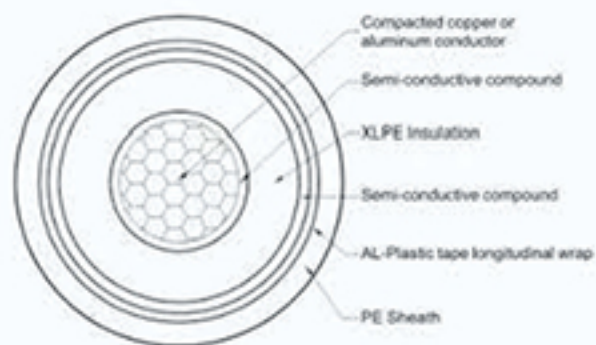
Outer Sheath: PVC/ PE/ LSZH



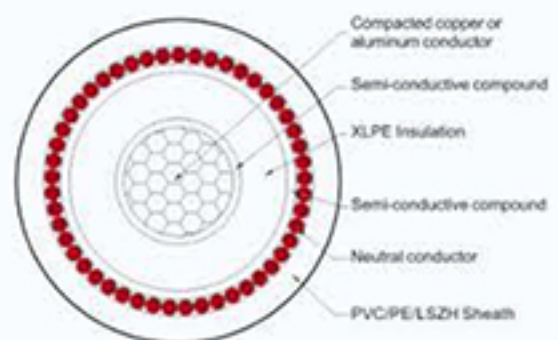
### >> Cable Drawing



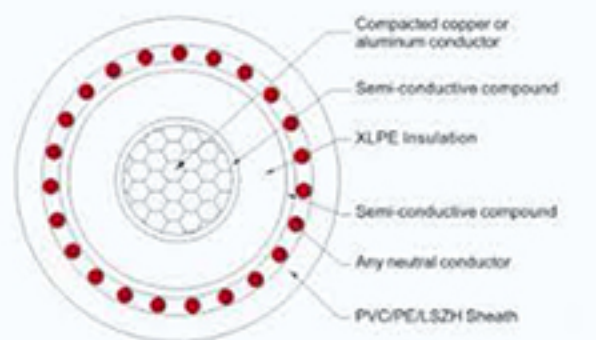
Drawing: Copper tape screen SC cable



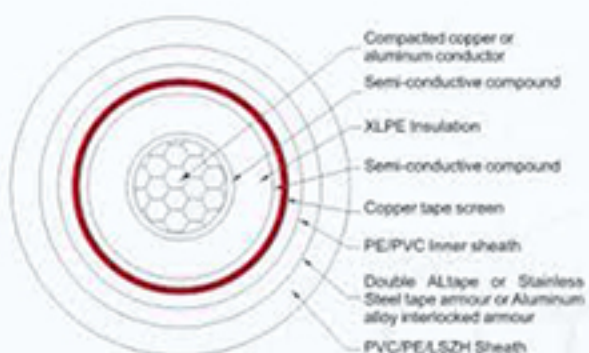
Drawing: Al-Plastic tape longitudinal wrap screen SC cable



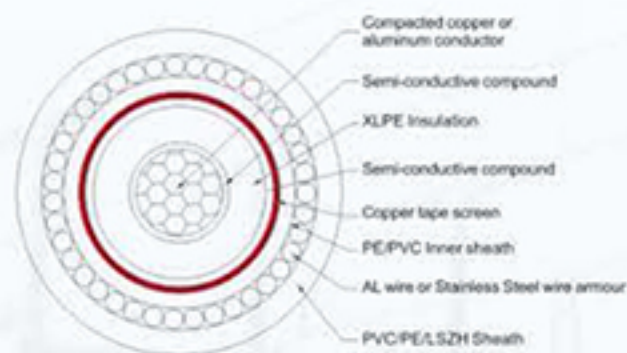
Drawing: Full neutral SC power cable



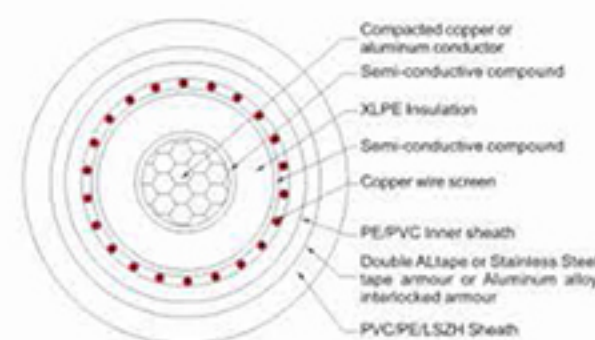
Drawing: Non-full neutral SC power cable



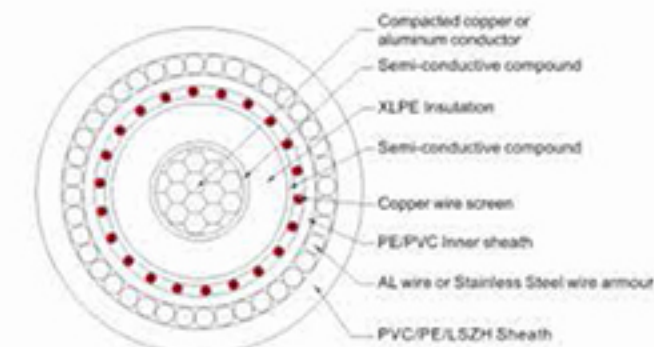
Drawing: Double AL tape or Stainless Steel tape armour or Aluminum alloy interlocked armour SC cable



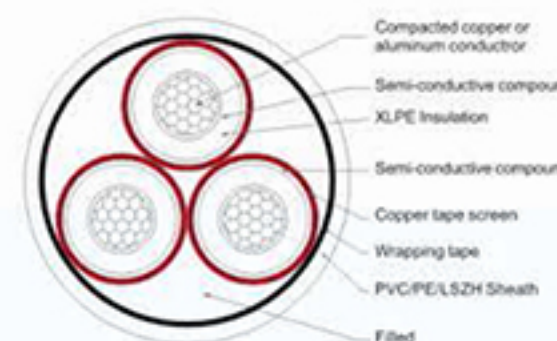
Drawing: AL wire or Stainless steel wire armour SC cable



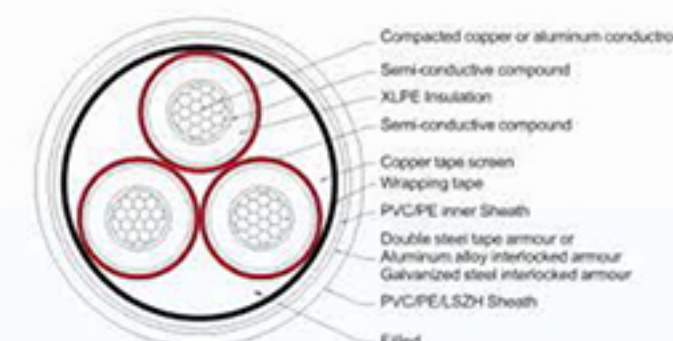
Drawing: Copper wire screen double AL tape or Stainless Steel tape armour or Aluminum alloy interlocked armour SC cable



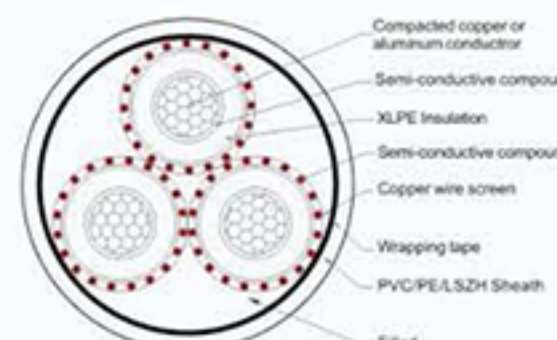
Drawing: AL wire or Stainless steel wire armour SC cable



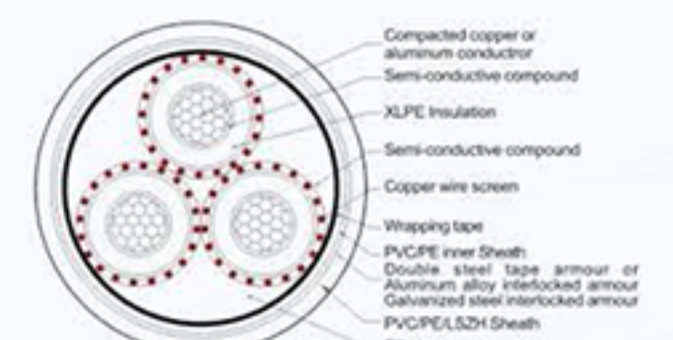
Drawing: Copper tape screen 3C cable



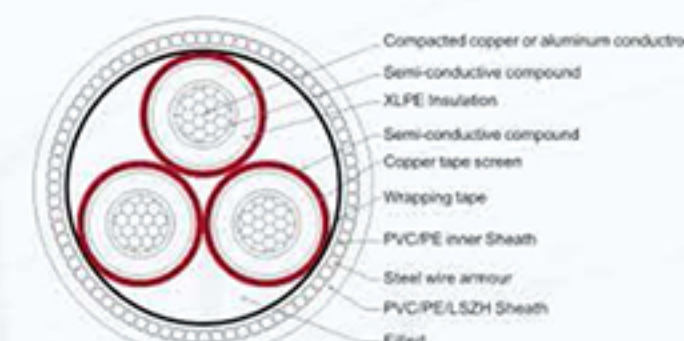
Drawing: Copper tape screen double steel tape armour or Aluminum alloy interlocked armour or Galvanized steel interlocked armour 3C cable



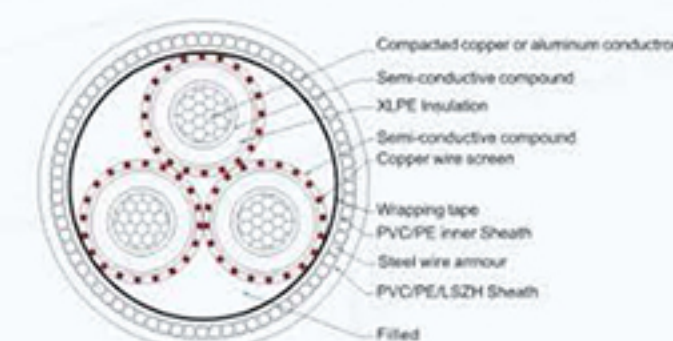
Drawing: Copper wire + copper tape screen 3C cable



Drawing: Copper wire screen double steel tape armour or Aluminum alloy interlocked armour or Galvanized steel interlocked armour 3C cable



Drawing: Copper tape screen steel wire armour 3C cable



Drawing: Copper wire screen Steel wire armour 3C cable

\*we can design and produce according to client's requirement.



## Part 5

### URD Cable



#### • URD Cable

## URD Cable

### >> Application

Used for secondary distribution and underground service at 600V or less, either direct burial or in ducts.

### >> Applicable standards

ANSI/ICEA S-105-692

### >> Production Scope

Number of Core: 1,2,3,4 Cores  
 Rated Voltage: 600V or below  
 Nominal Cross Section: From 6AWG to 1000MCM.

### >> Construction

Conductor: Aluminum 1350-H19, 8000 series aluminum alloy

Insulation: LDPE/HDPE/XLPE

Color of insulation: Black and customer designated.

Core's identification: The phase of two cores or more, cable should be distinguished by enduring printing ink number or ridge or color strip.

\*we can design and produce according to client's requirement.



## Part 6

### Concentric Cable



- Concentric Cable

### Concentric Cable

#### >> Application

The cables are for the service-entrance.

#### >> Applicable standards

As per Customer's technical specifications

#### >> Production Scope

Rated Voltage: Up to 600V or upon customer's request

Core Number: 1, 2, 3 cores with neutral core

Coverage: 100% and non-100% coverage

Nominal cross section: 6AWG to 4/0AWG

#### >> Construction

Phase Core:

Conductor: Copper or Aluminum

Insulation: XLPE/PE/ PVC

For Neutral conductor: Copper or aluminium, Wrapped on insulation or inner sheath

For Communication core (optional):

Conductor: Copper

Insulation: PE

External coverage: XLPE, PVC, PE (Weather resistant)

\*we can design and produce according to client's requirement.





## Part 7 Mining Cable



- PVC/XLPE Insulated Mining Power Cable
- Rubber Insulated Mining Cable

### PVC/XLPE Insulated Mining Power Cable

#### >> Application

This product is fixed out cable of rated voltage up to and including 10kV used in coal mine, it is fit for power transmission in the mines.

#### >> Manufactured standards

MT818.11-13 IEC60502

#### >> Production Scope

Nominal Cross-section: 1.5-800mm<sup>2</sup>  
Rated Voltage: 10kV or below  
Core Number: 1-5core

#### >> Construction

##### 0.6 / 1kV and below cable structure

Conductor: Solid or stranded Copper, class1, class2

Insulation: PVC or XLPE

Core: 3cores, 3+1cores or 4cores

Fill: Flame Retardant Fillers

Inner sheath: PVC

Armoured(optional): Galvanized steel wire, Two layers of steel tape gap-wrapped, Galvanized steel interlocked armour, or Aluminum alloy interlocked armour.

Outer sheath: FRPVC

##### 3.6/6 to 8.7/15kV cable structure

Conductor: Solid or stranded Copper, class1, class2

Conductor Screen: semi-conducting compound

Insulation: XLPE

Insulation Screen: semi-conducting compound

Shielding: Copper wire or Copper tape

Core: 3cores

FILL: Flame Retardant Fillers

Inner Sheath (optional): PVC

Armored (optional): Galvanized steel wire, Two layers of steel tape gap-wrapped, Galvanized steel interlocked armour, Aluminum alloy interlocked amour.

Outer Sheath: FRPVC

\*we can design and produce according to client's requirement.





## Rubber Insulated Mining Cable

### >> Application

Designed for use as a trailing cable on AC mining equipment.

### >> Manufactured standards

ICEAS 75-381 MT818.1-818.9 GB/T12972

### >> Production Scope

Nominal Cross-section: 1.5-800mm<sup>2</sup>  
Rated Voltage: 10kV or below  
Core Number: 1-9core

### >> Construction

#### 1.9/3.3kV and below cable structure

Conductor: Strand tinned copper, class5

Insulation: EPR

Core: 3-9(Include ground-check conductor ,ground conductor etc.)

Insulation shield (optional): Tinned Copper braid or Semi - conductive shielding tape

Ground-check conductor (optional): Strand tinned copper, class5

Ground-check Insulation: PP EPR

Ground conductor: Bare conductor or insulated of EPR

Inner sheath (optional): CPE



#### 1.9/3.3kV to 8.7/10kV cable structure

Conductor: Strand tinned copper, class5

Conductor shield: Extruded thermosetting semi-conducting stress control layer over conductor

Insulation: EPR

Insulation shield: Semi - conductive shielding tape

Metal shield: Tinned Copper braid/Bare Copper tape

Core: 3-7(Include ground-check conductor ,ground conductor etc.)

Ground-check conductor (optional): Strand tinned copper, class5

Ground-check Insulation: PP EPR

Ground conductor: Bare conductor

Inner sheath (optional): CPE/CR

Wrap tape: Insulation tape

Outer sheath: CPE/CR



*\*we can design and produce according to client's requirement.*

## Part 8 Other Cables



- Cathodic Protection Cable
- Frequency Conversion Cable
- Welding Cable
- Alarm Cable



## Cathodic Protection Cable

### >> Application

The cathodic protection cable mainly used for impressed current cathodic protection system.

### >> Applicable standards

GB16702, 17-SAMSS-017

### >> Production Scope

Rated voltage: DC 600V

Core number: 1 core

Cross section: 10- 70mm<sup>2</sup>

### >> Construction

Conductor: Stranded Copper

Insulation: HMWPE, PVDF, or KYNAR

Armoured (Optional): steel wire, aluminum wire, etc.

Sheath(Optional): HMWPE, or KYNAR

*\*we can design and produce according to client's requirement.*



## Frequency Conversion Cable

### >> Application

The frequency conversion cable is mainly used for the connection between the variable frequency power supply and the frequency conversion motor, and the transmission and distribution line with the rated voltage of 8.7 / 15kV and below.

### >> Applicable standards

As per Customer's technical specifications

### >> Production Scope

Nominal Cross-section: 1.5-400mm<sup>2</sup>

Rated Voltage: 15kV or below

Core Number: 1-7core

### >> Construction

#### 0.6/1kV and below cable structure

Conductor: Copper Core number: 3core 3 phase core +3 neutral core

3 phase core+1 neutral core (Concentric conductor)

3 phase +3 neutral core+1 ground wire core(Non-concentric conductor)

3 phase +3 neutral core+1 ground wire core(concentric conductor)

Insulation: XLPE

Metal Screen: Copper tape/copper wire/Tinned copper braid/ Aluminum foil

Armoured(optional):Galvanized steel wire/Aluminum wire/Galvanized steel tape

/Aluminium tape/Aluminum alloy interlocked armour.

Outer sheath: PVC/PE, other special requirements

#### 1.8/3kV to 8.7/15kV cable structure

Conductor: Copper

Insulation: XLPE

Shielding: Copper wire/ Copper tape

Core: 1 core 3cores

Total Screen: Copper tape/copper wire

Armoured(optional): Galvanized steel wire/Aluminum wire/Galvanized Steel Tape

/Aluminium Tape/Aluminum alloy interlocked armour.

Outer Sheath: PVC/PE

*\*we can design and produce according to client's requirement.*





## Welding Cable

### >> Application

Used by professional welders, for secondary voltage resistance welding leads and as a power supply for welding tools and applications that do not require over 600 volts AC.

### >> Manufactured standards

As per Customer's technical specifications

### >> Production Scope

Nominal Cross-section: 0.5-95mm<sup>2</sup>  
Rated Voltage: 600V or below  
Core Number: 1 core



### >> Construction

Conductor: Flexible bare copper and coated copper, class5, class6  
Insulation EPDM/CR

*\*we can design and produce according to client's requirement.*



## Alarm Cable

### >> Application

Use for Wiring Burglar & Security alarms, public address systems, intercoms, telephone stations, speakers, instrumentation, control and other low voltage circuits that are power limited.

### >> Applicable standards

As per Customer's technical specifications

### >> Production Scope

Nominal Cross-section: 0.5-400mm<sup>2</sup>  
Rated Voltage: 600V or below  
Core Number: 1-20 core

### >> Construction

Conductor: Copper, class1, class2, class5  
Insulation: PVC flame retardant  
Core: 2C-20C  
Shield (optional): Aluminum foil with drain wire  
Sheath: PVC flame retardant

*\*we can design and produce according to client's requirement.*

