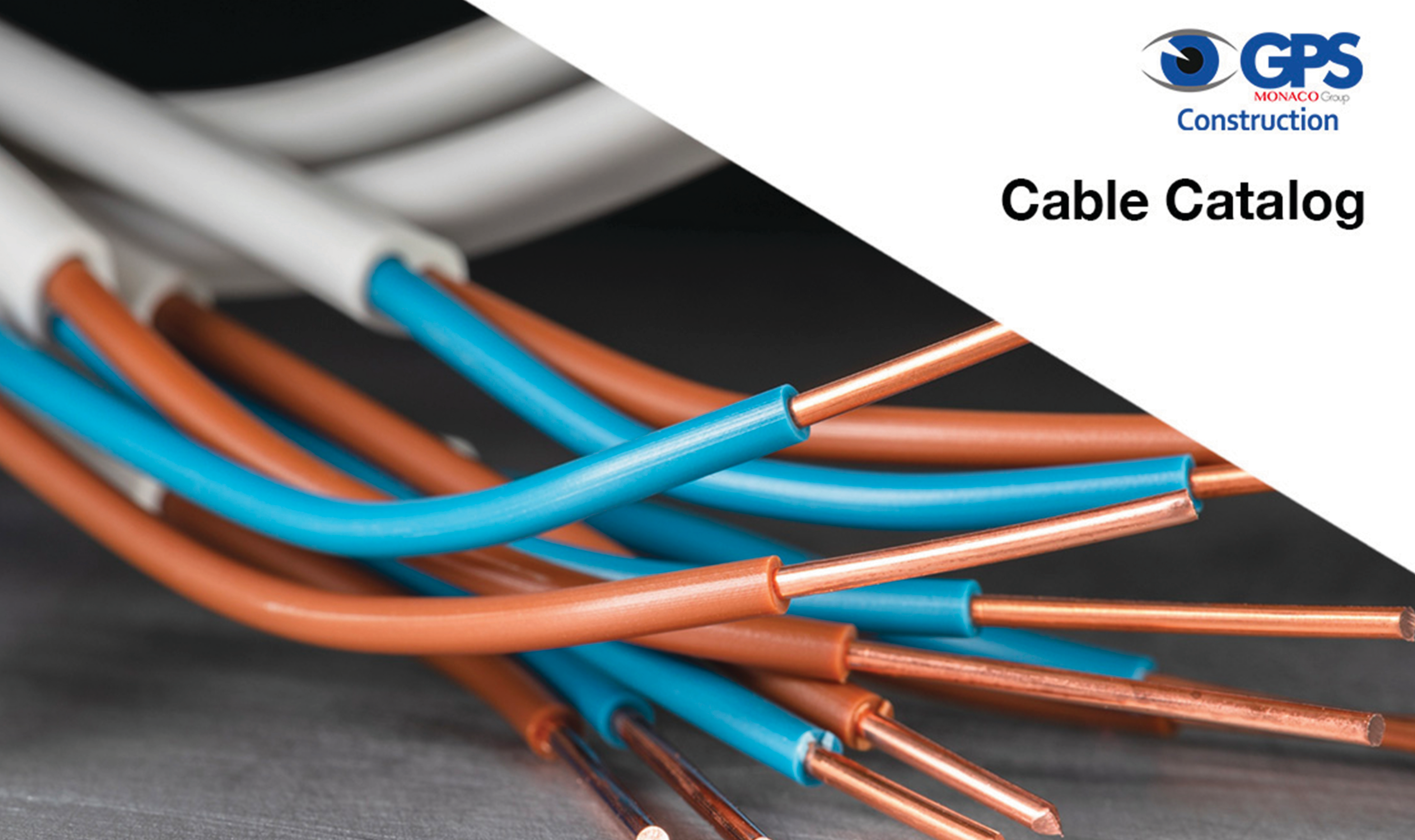


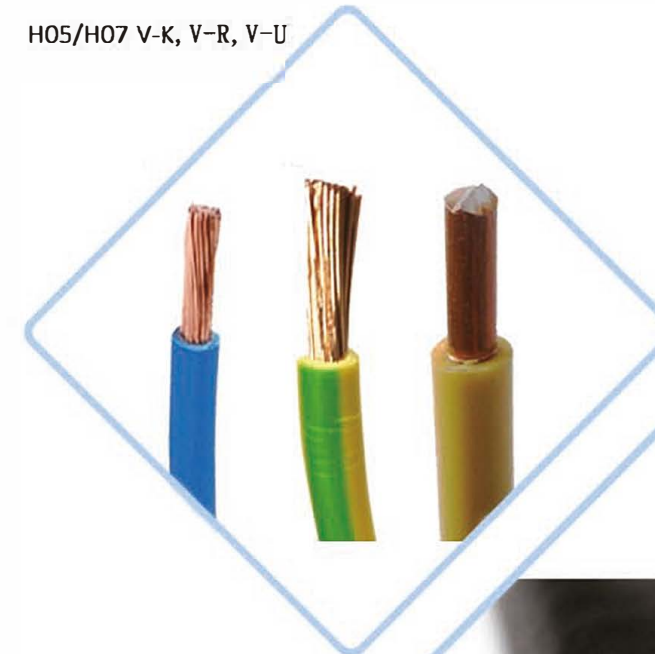
# Cable Catalog



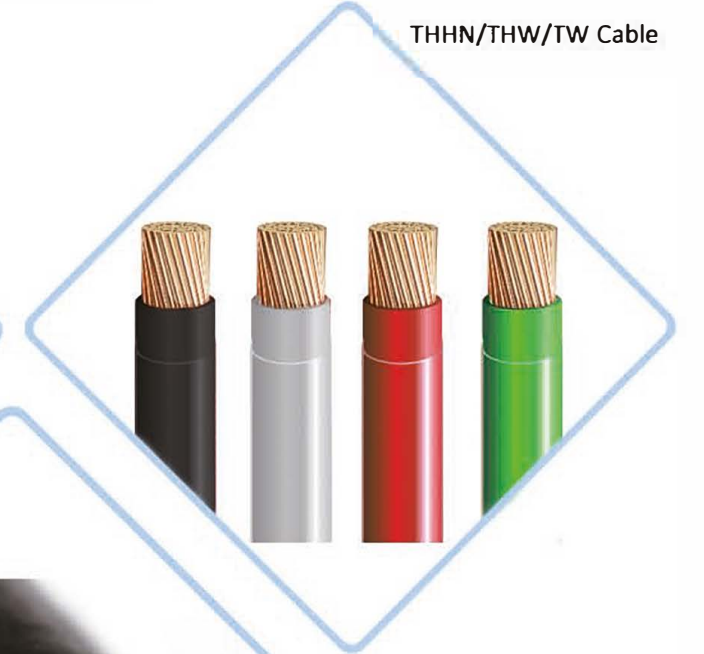


## Product Introduction

H05/H07 V-K, V-R, V-U



THHN/THW/TW Cable



Concentric Cable



Twin and Earth Cable



PVC Flexible Cable



Product Picture: Bare Conductor& ABC Cable

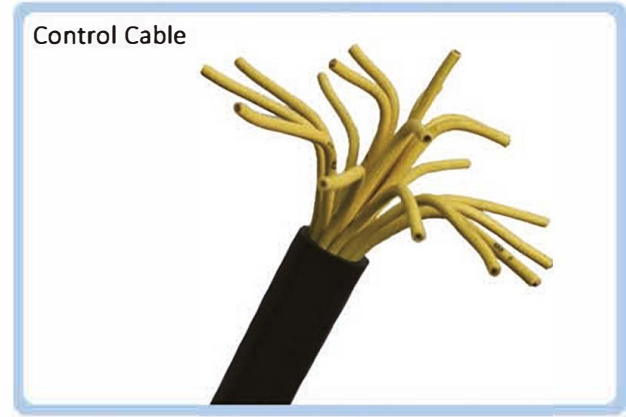
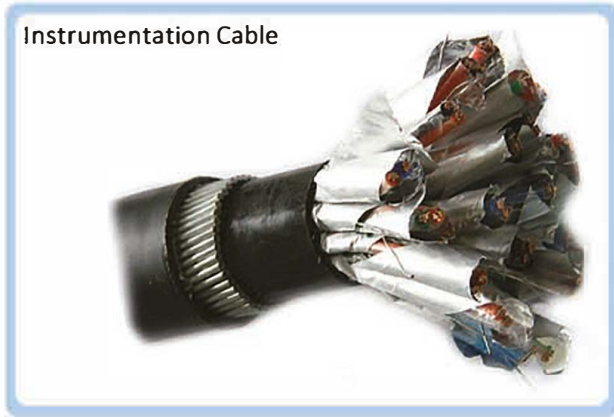


Product Picture: Power Cable

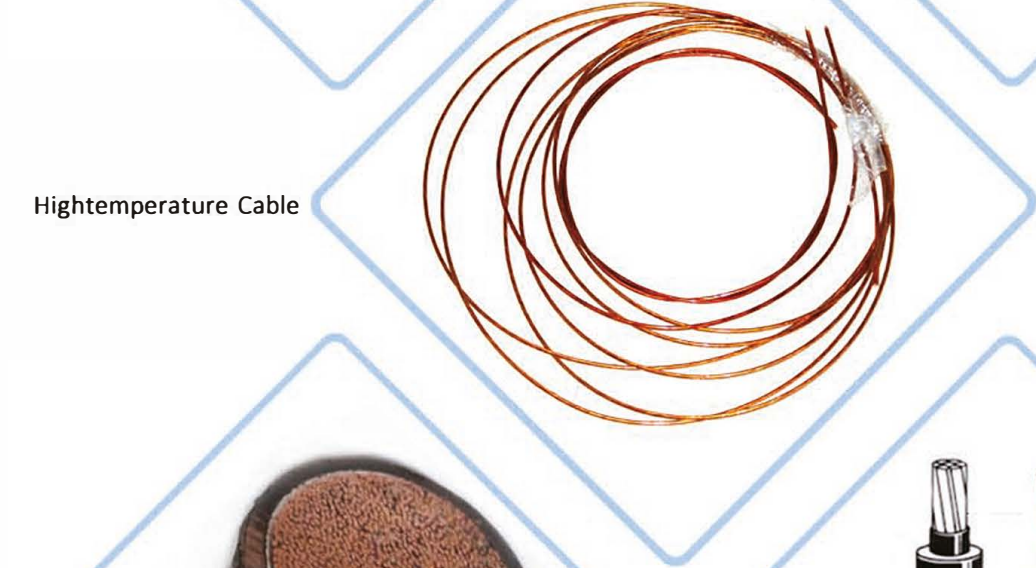




Product Introduction



Product Introduction





## AAC/AAAC Conductor

### AAC Conductor



Aluminum Conductor

### AAC-All Aluminium Conductor Description:

AAC are a refined Aluminium stranded conductor with a minimum metal purity of 99.7%. It is principally used in urban areas where spacing is short and the supports are close. It can be used in coastal regions owing to its high degree of corrosion resistance and is also used extensively within the Railway and Metro industries.

### Application:

Classes 1 AA and A are used primarily for overhead transmission and primary and secondary distribution, where ampacity must be maintained and a lighter conductor (compared to ACSR) is desired, when conductor strength is not a critical factor. Classes B and C are used primarily as bus, apparatus connectors and jumpers, where additional flexibility is required.

### International Standard:

ASTM B-2316 standard  
BS 215-1 standard  
BS EN-50182 Standard  
IEC 61089 Standard  
German DIN-48201 Standard  
CSA C49 Standard  
China GB-1179 Standard

### AAC Cable Dimension Examples

Code Word	Size - AWG or MCM	Nominal Cross Sectional Area	Nominal Weight kg/km
AA-1	3/0	84.91mm <sup>2</sup>	234.4
AA-2	397.5	202.1mm <sup>2</sup>	55.4
AA-3	795	402.9mm <sup>2</sup>	1110.6
AA-4	1750	885.8mm <sup>2</sup>	2445.1

\* Cables sizes are available as AWG in cmill, kcmill and MCM.

### AAAC Conductor



Aluminum Alloy Conductor

### AAAC- Aluminium Alloy Conductor Description:

AAAC are used as a bare conductor cable on aerial circuits that require a larger mechanical resistance than the AAC and a better corrosion resistance than the ACSR. The sag characteristics and the strength-to-weight ratio of the AAAC conductor cable is better than both AAC and ACSR.

### Application:

Used as bare overhead conductor for primary and secondary distribution. Designed utilizing a high-strength aluminum-alloy to achieve a high strength-to-weight ratio; affords good sag characteristics. Aluminum-alloy 6201-T81 gives AAAC higher resistance to corrosion than ACSR.

## ACSR Conductor

### International Standard:

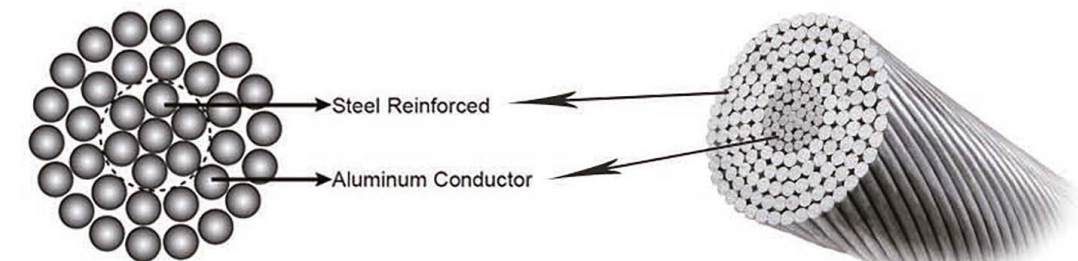
ASTM B-399 standard  
BS 3242 standard  
BS EN-50182 Standard  
DIN 48201 part6  
IEC 61089 Standard  
China GB-9329 Standard

### AAAC Cable Dimension Examples

Code Word	Size - KCM	Nominal Cross Sectional Area	Nominal Weight kg/km
AA-1	30.58	0.610mm <sup>2</sup>	503.49
AA-2	312.8	6.238mm <sup>2</sup>	4989.52
AA-3	740.8	19.863mm <sup>2</sup>	13834.57

\* Cables sizes are available as AWG in cmill, kcmill and MCM.

### ACSR Conductor



Steel Reinforced

Aluminum Conductor

### ACSR-ASTM-B Aluminium Conductor Steel Reinforced

ACSR are available in a range of steel contents ranging from 6% to 40% for additional strength. The higher strength ACSR conductors are commonly used for river crossings, overhead earth wires, and installations involving extra-long spans. The ACSR conductor can, against any given resistance, be manufactured to different tensile strengths, so a high tensile strength combined with its lightweight properties means it can cover longer distances with fewer supports. Due to the greater diameter of the ACSR conductor, a much higher corona limit can be obtained which is advantageous on high and extra high voltage overhead lines.

### ACSR Application:

Used as bare overhead transmission conductor and as primary and secondary distribution conductor and messengersupport. ACSR offers optimal strength for line design. Variable steel core stranding enables desired strength to be achieved without sacrificing ampacity.

### International Standard:

ASTM B-232 standard  
BS 215-1 standard  
Canada Standard  
DIN 48204 Standard  
IEC 61089 Standard  
China GB-1179-83 Standard

### ACSR Cable Dimension Examples

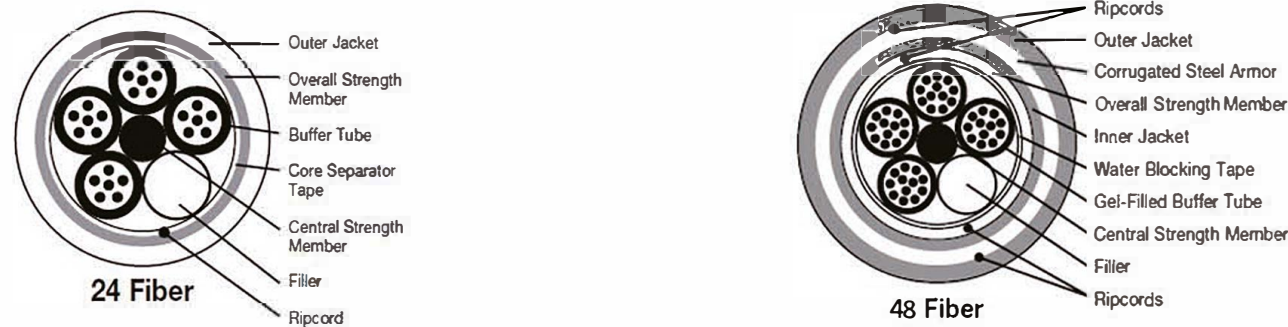
Code Word	Size - AWG - MCM	Nominal Cross Sectional Area	Nominal Weight kg/km
AA-1	4	26.47mm <sup>2</sup>	92.3
AA-2	336.4	198.4mm <sup>2</sup>	689
AA-3	1272	489.1mm <sup>2</sup>	2134.1

\* Cables sizes are available as AWG in cmill, kcmill and MCM.



## OPGW-Optical Fiber Composite Ground Wire

### OPGW - Optical Fiber Composite Ground Wire



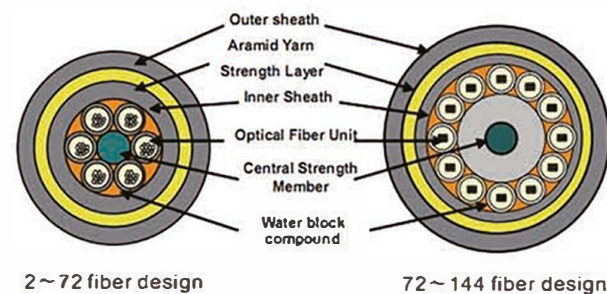
#### OPGW Description:

1. OPGW cable is the short form of Optical Fiber Composite Overhead Ground Wire.
2. OPGW cable is suit for installation on new power lines with double function of ground wire and communication, especially for installation on normal voltage and extra high voltage power lines. OPGW can replace conventional ground wire of old power lines with increasing fiber communications function.
3. OPGW cables conduct short circuit current and provide lightning resistance.



#### OGW Wire Structure

- Size: 12core, 24core, 36core, 48core, 72core, 96core
- Loose tube gel-filled
- -coding per TIA/EIA 598B
- \* Central Strength Member: Epoxy/glass rod
- \* Inner Jacket: Black UV- and moisture-resistant polyethylene (PE)
- \* Armor: • 0.006" corrugated coated steel tape
- \* Outer Jacket: Black UV- and moisture-resistant polyethylene (PE)



#### Types of OPGW:

- AlumaCore Optical Ground Wire
- CentraCore Optical Ground Wire
- HexaCore Optical Ground Wire
- Stainless Steel Fiber Optic Tubes
- ADSS Cable-All Dielectric Self-supporting Aerial Cable

### GSW Cable-Galvanized Steel Wire Cable



## GSW & ACS Bare Conductor

### GSW - Galvanized Steel Wire Application:

The galvanized steel wire strand is used for overhead ground lines or electrical power transmission lines. Stay wire or guy wire strands are produced for use with poles, towers, or any other form of guying. Its low cost and ease of production makes galvanized steel wire ideal for mass produced corrosion resistant wire products, which is indispensable in industrial, agricultural.



#### GSW Cable Description:

- Core:** 3~37 Cores
- Dia. of wire:** 2.64~4.66
- Construction:** GSW strand available in class "A", "B" and "C" galvanizing, "A" being the least heavy and "C" being the most heavy. Manufactured without welds per ASTM A-363 or with welds per ASTM A-475. Strands are formed to remain substantially in place when severed.
- Zinc-coated grade of steel strand wire /guy wire:** Class A, B, C.
- Standards:** ASTM A475, BS183:1972.

### ACS - Aluminum Clad Steel Wire

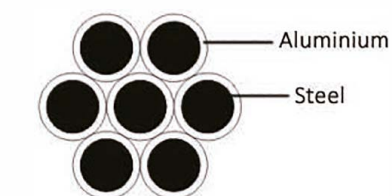


#### Application:

It is widely used in long-span transmission line. They are with low resistance and high strength. Mainly use for coastal areas and island as well as other hot and humid regions, salt fog regions and heavily polluted regions where the high corrosion resistance strand is needed.

#### ACS Advantage:

1. good mechanical properties
2. improved electrical characteristics
3. excellent corrosion resistance
4. better Sag properties



#### ACS International Standards:

1. ASTM B415 Standard
2. ASTM B416 Standard
3. DIN48201 Standard
4. Other International Standard



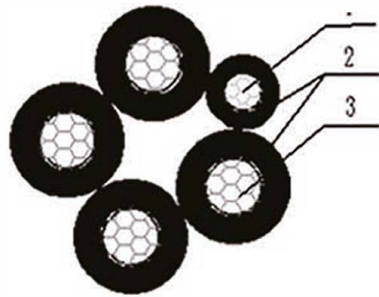
## Overhead ABC Cable

### NFC 33-209 Standard ABC Cable



#### ABC Cable Application:

The aerial bundled cables designed for fixed installation as overhead power lines up to 1000 V incl, To supply 120/220V aerial service for tem 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 90C°



1. aluminium conductor
2. XLPE insulation
3. aluminium conductor

#### ABC Cable Structure Description:

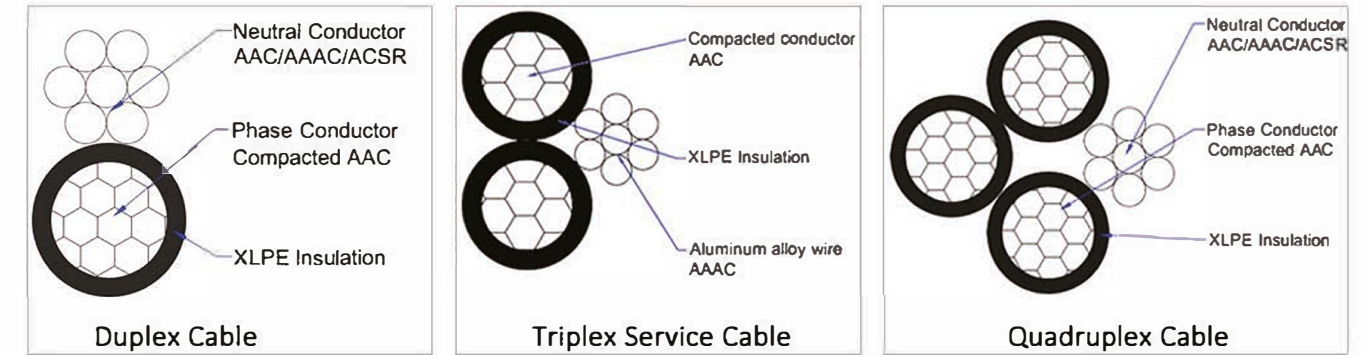
**Voltage:** 0.6/1Kv  
**Type:** Single/duplex/triplex/quadruplex  
**Phase conductor:** Aluminum(AAC)  
**Neutral messenger:** AAC/AAAC/ACSR  
**Insulated:** PE/PVC/XLPE/LEPE/HDPE  
**Color:** Black or as your request.  
**Standards:** IECA or according to your requirement.  
**Application:** Overhead power transmission.  
**Packaging:** Wooden or Wooden Iron Drum.

### IECA Standard ABC Cable

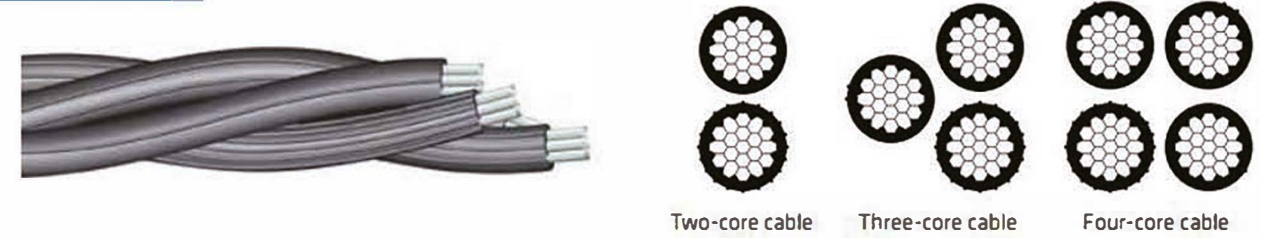


## Overhead Cable

### IECA Standard ABC Cable Structure



### Asia Standard



### Other International Standard

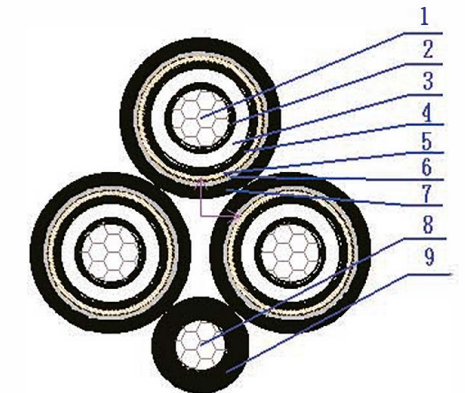
URD(Underground Secondary Distribution) Cable



#### URD Wire Properties

**Color:** distribution cable is black.  
**Description:** URD Cable is twisted assemblies of aluminum alloy 1350 conductors insulated with cross-linked polyethylene. This cable is used in various underground applications in secondary distribution circuits at up to 600 volts.  
**Conductor:** Compressed Class B compressed stranded, 1350 series aluminum alloy.  
**Insulation:** XLPE.  
**Assembly:** Phase conductors and neutral conductors are cabled together to form a twisted assembly.

Medium Voltage ABC Cable Structure

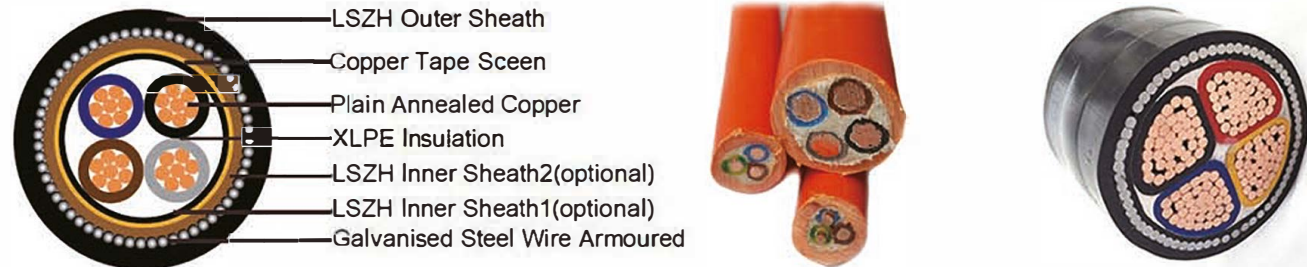


1. aluminium conductor
2. conductor screen
3. XLPE insulation
4. insulation screen
5. copper tape screen
6. Non-woven tape
7. PVC oversheath
8. aluminium conductor
9. PVC sheath

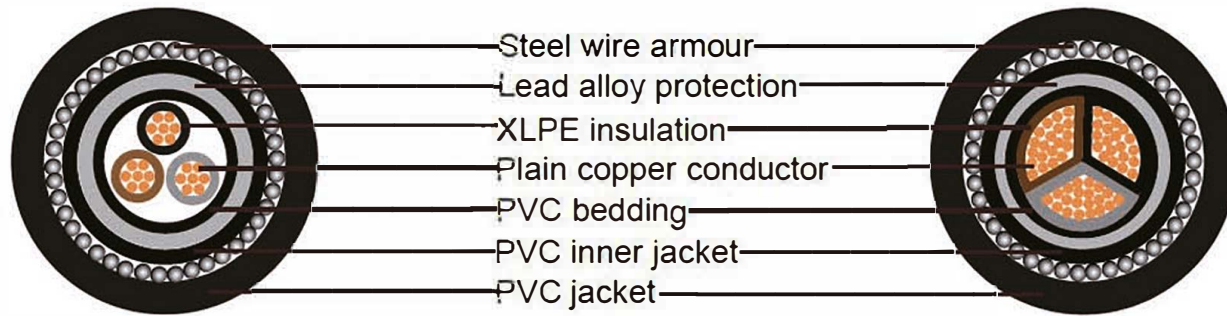


## 0.6/1KV XLPE/PVC Insulated Power Cable

### LSZH Power Cable



### 3 Core SWA Power Cable Structure



### Armoured Power Cable Description:

**Conductor:** Aluminum or Copper

**Armoured:** SWA(Steel Wire Armoured) / STA(Steel Tape Armoured) or Non-Armoured

**Insulation:** PVC/XLPE/LSF/Fire Resistant

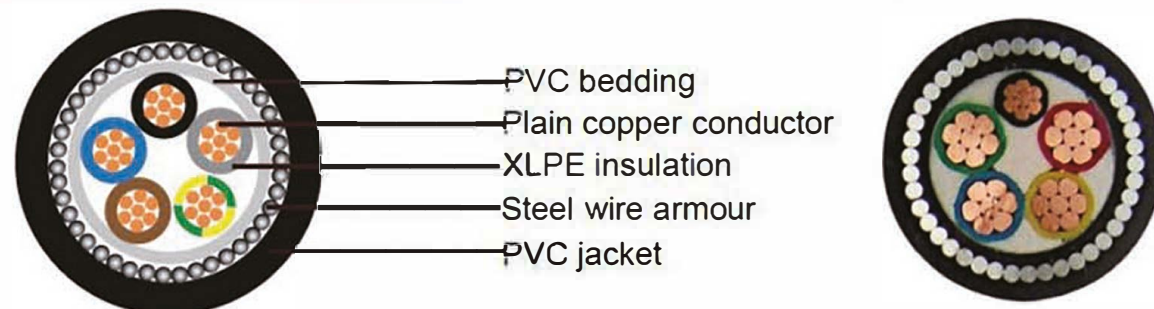
**Cores:** 1, 2, 3, 4, 5, 3+1, 4+1, 3+2

**Section Area:** 1.5mm<sup>2</sup>-300mm<sup>2</sup>

**Standard:** IEC 60502, BS 7870, GB/T12706 or other standard can customize.

**Application:** Building, Engineered, Railway, Plant construction, Shool, Hospital, Underground etc.

### 5 Core SWA Power Cable Structure



## 1/35KV XLPE Insulated Power Cable

### 1/35KV SWA Power Cable Structure



### Medium Voltage Power Cable Description:

**Voltage:** 1.8/3KV, 3.6/6KV, 6/10KV, 8.7/10KV, 8.7/15KV, 12/20KV, 18/30KV, 21/33KV, 26/35KV.

**Conductor:** Aluminium/ Copper.

**Insulated:** XLPE.

**Size of area:** 25mm<sup>2</sup>-800mm<sup>2</sup>

**Armour type:**

- Galvanized steel wires/steel tape for 3 core;
- Stainless steel wire/Steel tape or Aluminium wire/tape for single core Polyvinyl chloride (PVC) or PE, or HDPE.

### ASTM Standard:

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

### Power Cable Specification Date:

Sectional area (mm <sup>2</sup> )	rated voltage U <sub>0</sub> /U (KV)	1st class								
		0.6/1	1.8/3	3.6/6	6/10	8.7/15	12/20	18/30	21/35	26/35
No. of core	2nd class	1/1	3/3	6/6	8.7/10	12/15	18/20	—	—	26/35
	1 Core	1.5~800	25~800	25~1200	25~1200	35~1200	35~1200	50~1200	50~1200	50~1200
2 Core	1.5~185	25~185	—	—	—	—	—	—	—	—
3 Core	1.5~400	25~400	25~400	25~400	35~400	50~400	50~400	50~400	50~400	—
4 Core	2.5~400	25~400	—	—	—	—	—	—	—	—
5 Core	2.5~400	25~400	—	—	—	—	—	—	—	—



## H07RN-F Rubber Cable/PNCT Rubber Cable

### Rubber Cable Types:

#### H07RN-F Rubber Cable



#### Construction:

**Voltage:** 450/750V

**Conductor:** Class5 flexible plain copper to BS EN 60228:2005(Previously BS6360)

**Insulation:** EPR(Ethylene Propylene Rubber) Type E14 to BS7655

**Sheath:** PCP(Polychloroprene) Type EM3 to BS7655

**Temperature Rating:** conductor operation temperature -30°C to +60°C(85°C max)

**Minimum Bending Radius:** Up to 25mm<sup>2</sup>:6xoverall diameter; Above to 25mm<sup>2</sup>:8xoverall diameter

**Standards:** BS7919 CENELEC HD22 4S4.

**Application:** Handling equipment, mobile power supplies, work sites, stage and audio visual equipment, port areas and dams. Also for use in drainage and water treatment, cold environments and severe industrial Environments.

#### Core Identification:

2 Cores: ● Blue, ● Brown

3 Cores: ● Green/Yellow, ● Blue, ● Brown

4 Cores: ● Green/Yellow, ● Brown, ● Black, ● Grey

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

6 Cores and above: ● Black with ○ White numerals, ● Green/Yellow

**Sheath Colour:** ● Black

#### PNCT Rubber Cable



#### Product Feature:

**Voltage:** 0.6/1kv

**Color:** Black or by request.

**Conductor:** Flexible Copper/Tinned Copper

**Insulation:** Rubber/EPR

**Cores:** 1,2, 3, 4, 5, 6, 7, 8 Core

**Standard:** JIS C3327/IEC/VDE etc

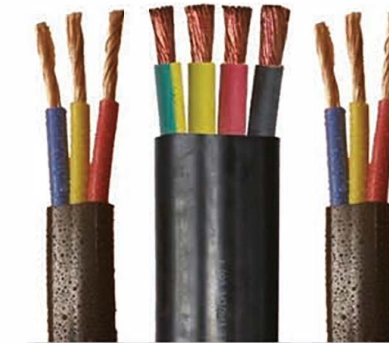
## Submersible Pump Cable/SJ SJOOW SJO SOOW Cable

### JHS Submersible Waterproof Pump Structure



#### The Submersible Waterproof Pump Cable Application:

This cable is suitable for various types lead wire of submersible motor (lead from underwater to above-water). This product can be equipped with waterproof joint (it can be supplied completely as request). The features of lead wire are convenient in use, good waterproof property. Even if exist in external damage, it can also guarantee the motor is not suffered from damage caused by water. This is a new type waterproof cable.



#### Submersible Waterproof Pump Cable Description

**Rated Voltage:** 300/500V,450/750V,600/1000V

**Test Voltage:** 1.5KV,2.5KV,3.5KV

**Type:** Flat /Round

**Conductor:** Flexible Copper/Tinned Copper

**Conductor Working temperature:** 85°C

**Insulated:** EPR/PVC/Rubber.

**Ambient temperature:** Fixed:-40°C to 90°C; Mobile:-25°C to 90°C

**Flame retardant:** VDE 0482-332-1-2/IEC 60332-1

### SJ/SJOOW/SJO/Soow Resistance Oil Rubber Cable:



#### SJ/SJOOW/SJO/Soow Cable Structure

**Voltage:** 300 Volt

**Conductor:** Copper/Tinned Copper

**Size:** range from 12 AWG to 18 AWG

**Insulation:** Ethylene Propylene Diene Monomer (EPDM) or EP compound

**Jacket:** rubber or CPE or CP compound.

**Working temperature:** 1.-40°C to +90°C. 2.90°C 300 Volt UL /CSA Portable Cord

**Feature:** Excellent resistance to oil and moisture Good tensile strength, elongation and aging characteristics High flexibility  
SJ, SJO, and SJOOW have all been superseded by SJOOW cable.



## Medium Rubber Cable

### Medium Voltage Reeling Rubber Cable:



#### Detailed Product Description:

**Rated Voltage:** 1.8/3KV,3.6/6KV,6/10KV,12/20KV,18/30KV

**Conductor:** Electrolytic copper tinned, compound type: special compound

**Core identification:** Natural colouring with black semiconductive rubber on which white digits 1 to 3 are printed.

**Core Arrangement:** Three man conductor laid-up, with protective-earth conductor split into 3 in the outer interstices.

**Inner sheath:** Basic material: EPR, compound type: special compound.

**Anti-torsion braid:** Braid of polyester threads in a vulcanized bond between inner and outer sheath.

**Outer sheath:** Basic material:CR,compound type: special compound. Colour: red.

**Insulation:** EPR

#### Parameter Date:

Number of cores and nominal cross-section mm <sup>2</sup>	Overall diameter of cable Min. mm	Overall diameter of cable Max. mm	Resistance at 20 °C Ohm/km	Inductance per unit length mH/km	Operating capacitance per unit length uF/km	Current carrying capacity at 30 °C A	Permissible short-circuit current (1s) KA	Approx. net weight kg/km	Maximum permissible tensile force N
<b>8.7/15 kV R-(N)TSCGEWöu</b>									
3x 25+3x 25/3	41,1	44,1	0,780	0,34	0,26	139	3,58	2700	1500
3x 25+3x 50/3	43,6	46,6	0,780	0,34	0,26	139	3,58	3080	1500
3x 35+3x 25/3	43,9	46,9	0,554	0,33	0,31	172	5,01	3190	2100
3x 35+3x 50/3	43,9	46,9	0,554	0,33	0,31	172	5,01	3380	2100
3x 50+3x 25/3	47,5	50,5	0,386	0,31	0,35	215	7,15	3890	3000
3x 50+3x 50/3	47,5	50,5	0,386	0,31	0,35	215	7,15	4080	3000
3x 70+3x 35/3	52,0	56,0	0,272	0,30	0,38	265	10,01	5010	4200
3x 70+3x 50/3	52,0	56,0	0,272	0,30	0,38	265	10,01	5130	4200
3x 95+3x 50/3	56,2	60,2	0,206	0,28	0,43	319	13,60	6180	5700
3x 120+3x 70/3	61,3	65,3	0,161	0,27	0,48	371	17,16	7580	7200
3x 150+3x 70/3	65,3	69,3	0,129	0,27	0,53	428	21,45	8980	9000
3x 185+3x 95/3	69,1	73,1	0,106	0,26	0,57	488	26,46	10280	11100
3x 240+3x 120/3	76,6	80,6	0,080	0,25	0,64	574	34,32	13110	14400
3x 300+3x 150/3	83,5	88,5	0,064	0,25	0,70	665	42,90	16010	18000

## Welding Cable

### Rubber/PVC Welding Cable



#### Welding Cable Structure:

**Conductor:** Flexible bare annealed copper wire or tinned copper wire

**Insulation:** PVC or Rubber Material or EPR

**Sheath:** Natural rubber, Horoprene rubber or other synthetic rubber,PVC or or CSP.

**No.Cross-section:** 10mm<sup>2</sup>,16mm<sup>2</sup>,25mm<sup>2</sup>,35mm<sup>2</sup>,50mm<sup>2</sup>,70mm<sup>2</sup>,95mm<sup>2</sup>,120mm<sup>2</sup>,150mm<sup>2</sup>,185mm<sup>2</sup>,240mm<sup>2</sup>.

**AWG Standard:** 6awg, 4awg, 2awg, 1awg, 1/0awg, 2/0awg, 3/0awg, 4/0awg, 250awg, 350awg, 500awg.

**Gauge Standard:** 0 gauge, 1 gauge, 2 gauge, 4 gauge, 6 gauge, 8 gauge.

**Color:** Choice of Black, Orange, Red or Yellow Blue jacket, single & double insulated.

#### Welding Cable Packaging:



#### ASTM Standard Parameter Date:

(AWG)	Nominal stranding		Nominal overall diameter		Approx. net weight (LBS/1000ft)	Max. conductor resistance at 20°C (Ω/km)
	AWG	mm	inch	mm		
6	259/30	259/0.254	0.43	10.92	152	1.33
4	418/30	418/0.254	0.475	12.07	215	0.84
2	646/30	646/0.254	0.54	13.72	296	0.53
1	836/30	836/0.254	0.58	14.73	360	0.42
1/0	1032/30	1032/0.254	0.615	15.62	424	0.33
2/0	1290/30	1290/0.254	0.655	16.64	513	0.26
3/0	1672/30	1672/0.254	0.72	18.29	644	0.21
4/0	2066/30	2066/0.254	0.78	19.81	824	0.17



## Instrument Cable

### Overall Instrument Cable

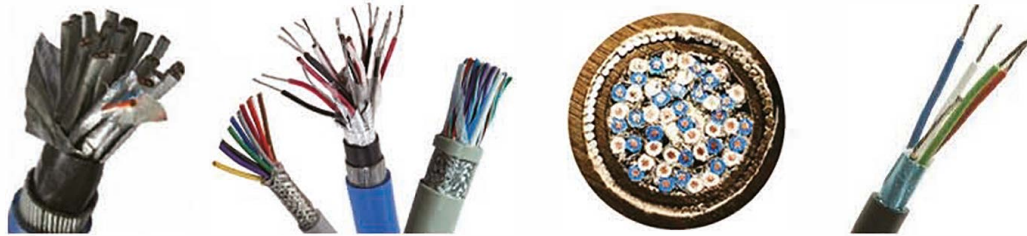


### Individual+Overall Instrument Cable

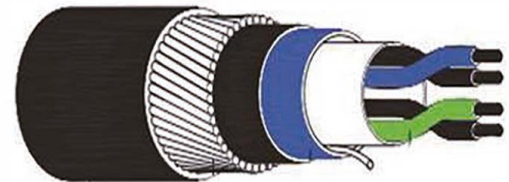


**Pair identification:** Color code as per appendix A.

**Individual screening:** each pair screen with aluminum/mylartape, helically applied with the metallic side down, in electrical contact with a tinned annealed copper drain wire of 0.5mm<sup>2</sup>.

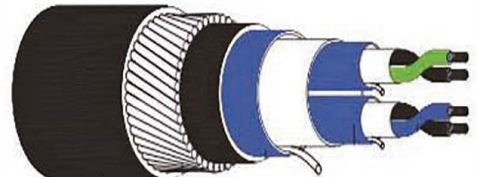


### Armoured Overall Instrument Cable



**Overall screening:** Accumulated pairs screened with aluminum/mytar tape, helically applied with the metallic side down in electrical contact with a tinned annealed copper drain wire 0.5mm<sup>2</sup>

### Armoured Individual+Overall Instrument Cable



**Overall screening:** Accumulated pairs screened with aluminum/mytar tape, helically applied with the metallic side down in electrical contact with a tinned annealed copper drain wire 0.5mm<sup>2</sup>

### OS/OS+IS Instrument Cable Common Feature

**Conductor:** plain annealed circular stranded copper, conform to BS 6360 class 2.

**Insulation:** PE(polyethylene)

**Pairing:** two insulated cores shall be uniformly twisted together to form a pair with maximum lay length of 100mm.

**Cabling:** twisted pairs are laid up together, if necessary filled with nonhygroscopic material compatible with the insulation.

**Overall screening:** Accumulated pairs screened with aluminum /mytar tape, helically applied with the metallic side down in electrical contact with a tinned annealed copper drain wire 0.5mm<sup>2</sup>

**Sheath:** PVC(polyvinyl chloride)

### Armoured OS/OS+IS Instrument Cable Common Feature

**Conductor:** plain annealed circular stranded copper conductor, conform to BS 6360 class 2.

**Insulation:** PE(polyethylene)

**Pairing:** two insulated cores shall be uniformly twisted together to form a pair with maximum lay length of 100mm.

**Pair identification:** Color code as per appendix A.

**Cabling:** twisted pairs are laid up together, if necessary filled with non-hygroscopic material compatible with the insulation.

**Bedding:** PE, color black

**Armoring:** Galvanized steel round wire over the bedding.

**Sheath:** PVC(polyvinyl chloride)

## Control Cable

### CVV/CVV-S/CVV-SWA Control Cable



#### CVV Control Cable Structure

**Conductor:** Concentric Stranded copper wire

**Cores:** 2-30 core

**Insulation:** PVC Black color

**Identification:** Printed White number on the surface of Black insulation

**Filler:** Suitable filler

**Binding tape:** Suitable tape

**Sheath:** PVC Black color

**Application:** For supervisory electrical equipment, station control circuits, outdoor, suitable installation in dry or wet cable trenches



#### CVV-S Control Cable Structure

**Conductor:** Concentric Stranded copper wire

**Core:** 2-15 cores

**Insulation:** PVC Black color

**Identification:** Printed White number on the surface of Black insulation

**Filler:** Suitable filler

**Binding tape:** Suitable tape

**Inner sheath:** PVC Black color

**Shield:** Annealed copper tape

**Binding tape:** Suitable tape

**Outer Sheath:** PVC Black color

**Application:** For supervisory electrical equipment, station control circuits, outdoor, suitable installation in dry or wet cable trenches.



#### CVV-SWA Structure :

**Conductor:** Concentric Stranded annealed copper wire

**Insulation:** PVC Black color

**Core:** 2-30 Core

**Identification:** Printed White number on the surface of Black insulation

**Filler:** Suitable filler

**Binding tape:** Suitable tape

**Inner sheath:** PVC Black color

**Armour:** Galvanized steel wire

**Binding tape:** Suitable tape

**Outer Sheath:** PVC Black color

**Application:** For use in duct, tray and for direct burying in ground. The cable subjects to immerse in water all the line.



## Control Cable

### SY Control Cable



**Voltage Rating:** (Uo/U) 300/500V  
**Cores:** 2,3,4,5.  
**Conductor:** Class 5 flexible copper conductor  
**Insulation:** PVC (Polyvinyl Chloride) Type T12  
**Bedding:** PVC (Polyvinyl Chloride) Type TM2  
**Braiding:** GSWB (Galvanized Steel Wire Braid) minimum coverage of braiding shall be 50%  
**Sheath:** PVC (Polyvinyl Chloride) Type TM2  
**Minimum Bending Radius:** 10 x overall diameter

### SY LSZH Control Cable



**Voltage Rating:** (Uo/U) 300/500V  
**Cores:** 2,3,4,5.  
**Conductor:** Class 5 flexible copper conductor  
**Insulation:** LSZH (Low Smoke Zero Halogen) Type T16  
**Bedding:** LSZH (Low Smoke Zero Halogen) Type TM7  
**Braiding:** GSWB (Galvanized Steel Wire Braid) minimum coverage of braiding shall be 50%  
**Sheath:** LSZH (Low Smoke Zero Halogen) Type TM7  
**Minimum Bending Radius:** 10 x overall diameter

### YY Control Cable



**Voltage Rating:** (Uo/U) 300/500V  
**Conductor:** Class 5 flexible copper conductor  
**Core:** 2,3,4,5,7  
**Insulation:** PVC T12 according to BS EN 50363  
**Sheath:** PVC TM2 according to BS EN 50363  
**Minimum Bending Radius:**  
 Fixed: 4 x overall diameter  
 Flexed: 12.5 x overall diameter

### YY LSZH Control Cable



**Voltage Rating:** (Uo/U) 300/500V  
**Conductor:** Class 5 flexible copper conductor  
**Core:** 2~30  
**Insulation:** Halogen-Free Compound Type T16 to BS EN 50363  
**Sheath:** LSZH (Low Smoke Zero Halogen) Type to BS EN 50363  
**Minimum Bending Radius:**  
 Fixed: 4 x overall diameter  
 Flexed: 10 x overall diameter

### CY Control Cable



**Voltage Rating:** (Uo/U) 300/500V  
**Conductor:** Class 5 flexible copper to BS EN 60228  
**Core:** 2~30  
**Insulation:** PVC (Polyvinyl Chloride) Type T12 according to BS EN 50363  
**Screen TCWB:** (Tinned Copper Wire Braid)  
**Sheath:** PVC (Polyvinyl Chloride) Type TM2 according to BS EN 50363  
**Sheath Colour:** Grey

### CY LSZH Control Cable



**Voltage Rating:** (Uo/U) 300/500V  
**Conductor:** Class 5 flexible copper to BS EN 60228  
**Core:** 2,3,4,5  
**Insulation:** Halogen Free Type T16 to BS EN 50363  
**Binding Tape:** PET (Polyester Tape)  
**Screen TCWB:** (Tinned Copper Wire Braid)  
**Sheath:** LSZH (Low Smoke Zero Halogen) Type TM7 to BS EN 50363  
**Sheath Colour:** Grey

## High Temperature Cable

### Single ETFE/FEP/PFA/Silicone Teflon High-temp Wire



**Rated Voltage:** 600V  
**Conductor:** Tin/Silver-Plated copper/Nickel plated copper.  
**Insulation:** ETFE/FEP/PTFE/PFA/Silicone.  
**Temperature:** -60 C°~ +260C°  
**Color:** Black, Red, White, Green, Yellow, Blue, Brown, Grey, Violet, Orange.  
**Standard:** IEC/ASTM etc.  
**Application:** Various electric machineries, electric ceramics, heating parts, car lighting, ballast etc.

### Glass Fiber High-temp Wire



**Rated Voltage:** 600V  
**Test Voltage:** 3.5V  
**Conductor:** Nickel copper wire acc. To VDE 0295 class 1 and HD 383 .  
**Insulation:** Glass fiber composed Mica tape.  
**Temperature:** -60°C to +450°C  
**Sheath:** Glass-fiber braiding acc. to HD 22.1.  
**Standard:** IEC/VDE/UL758 UL5335 UL5107 etc.

### Multi-cores Shielded High-temp Wire



**Rated Voltage:** 600V  
**Conductor:** Tin/Silver-Plated copper/Nickel plated copper.  
**Cores:** Multi-core, 16-4/0 AWG PEP wire  
**Insulated:** PFA Teflon/FEP/ETFE  
**Temperature Rating:** 130~150C°, 180~200C°, 230~260C°  
**Braid:** Tinned Copper Wire  
**Jacket:** PTFE/PFA  
**Color:** White, Black, Red, Brown, Yellow, Blue, Green etc.  
**Application:** They are the same with the temperature connect wires for headlamp, Home application Industrial machine, electrothermal products.

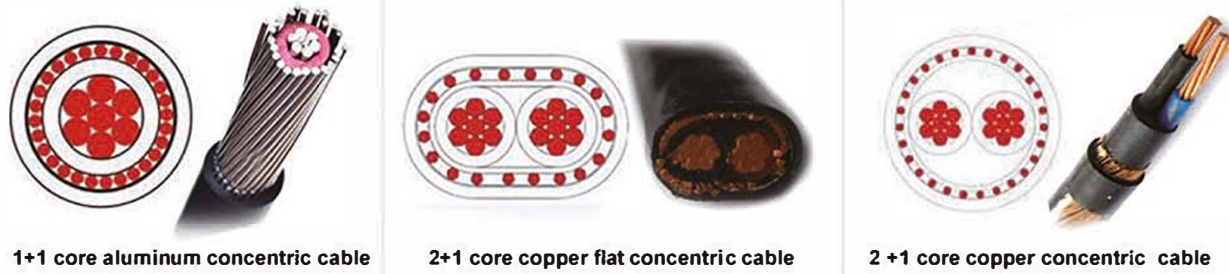
Parameter Date:

Size (AWG)	Conductor			Insulation			Diameter MM
	Construction No./mm	Diameter MM	Nominal Thickness MM	Braid		Outer Garment MM	
				Construction No./mm	Braid Thickness MM		
2 x 22	19/0.15	0.75	0.50	16 x 6 x 0.12	0.50	0.35	4.00-5.00
2 x 20	19/0.19	0.90	0.50	16 x 6 x 0.12	0.50	0.35	4.00-5.00
2 x 18	19/0.235	1.17	0.50	16 x 6 x 0.12	0.50	0.35	5.00-6.00
3 x 22	19/0.15	0.75	0.50	16 x 6 x 0.12	0.50	0.35	4.00-5.00
3 x 20	19/0.19	0.90	0.50	16 x 6 x 0.12	0.50	0.35	4.00-5.00
3 x 18	19/0.235	1.17	0.50	16 x 7 x 0.12	0.50	0.35	5.00-6.00
4 x 22	19/0.15	0.75	0.50	16 x 7 x 0.12	0.60	0.35	4.50-6.00



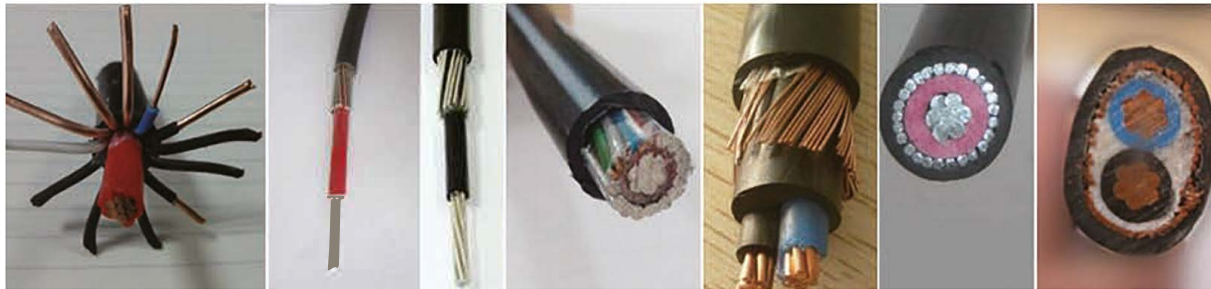
## Cocentric Cable

### Concentric and Split Concentric Cable



### Concentric Cable Structure:

	Aluminium concentric	Copper concentric
Conductor	Solid aluminium (Class 1)	Stranded copper conductor (Class 2)
Insulation	XLPE (Cross-linked Polyethylene)	XLPE
Concentric conductor	Single layer of plain copper wires	Single layer of plain copper wires
Outersheath	PVC (Polyvinyl Chloride) TM1	PVC TM1



### Concentric Application:

These cables are used for power supplies with Protective Multiple Earthing (PME) systems, where a combined Protective Earth (PE) and Neutral (N) - together known as the PEN - connects the combined neutral-and-earth to real earth at multiple locations to reduce the risk of electric shock in the event of a broken PEN.

### Split Concentric Cable Structure:

	Aluminium split concentric	Copper split concentric
Conductor	Solid aluminium (Class 1)	Stranded copper (Class 2)
Insulation	XLPE	PVC Type T11
Neutral conductor	Plain copper wires (Class 1) covered with blue polymeric insulation	Plain copper wires (Class 1) covered with blue polymeric insulation
Earth continuity conductor	Plain copper conductor (Class 1)	Plain copper conductor (Class 1)
String separator	Non-hygroscopic string separator	Non-hygroscopic string separator
Outersheath	PVC TM1 or LSZH	PVC TM1

## Marine Cable

### Marine Cable Structure

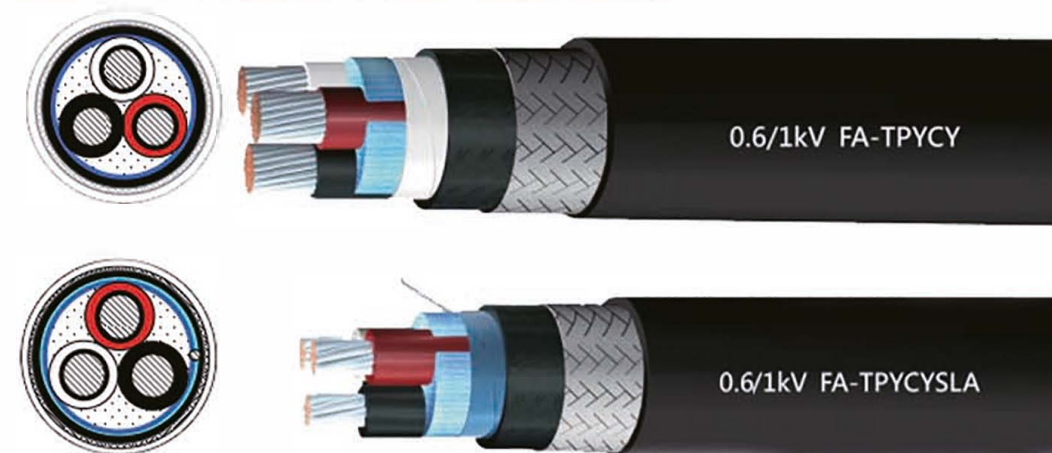


**Voltage:** 0.6/1kV, 1.8/3kV, 3.6/6kV, 6/10kV, 8.7/15kV;  
**Cores:** 1.2.3.4.4.7.10.12.14.16.19.24.27.30.33.37  
**Conductor:** tinned copper;  
**Inner sheath:** PCP/CSP/PVC/PO(SHF1,SHF2)  
**Insulation:** EPR/Rubber/XLPE;  
**Armored:** tinned copper wire braid(Galvanized steel wire braid)  
**Outer Sheath:** PVC/PCP/PO(SHF1, SHF2).  
**Nominal Cross-section Areas:** 0.75mm<sup>2</sup>, 1mm<sup>2</sup>, 1.5mm<sup>2</sup>, 2.5mm<sup>2</sup>, 4mm<sup>2</sup>, 6mm<sup>2</sup>, 10mm<sup>2</sup>, 16mm<sup>2</sup>, 25mm<sup>2</sup>,35mm<sup>2</sup>, 50mm<sup>2</sup>, 70mm<sup>2</sup>, 95mm<sup>2</sup>, 120mm<sup>2</sup>, 150mm<sup>2</sup>, 185mm<sup>2</sup>, 240mm<sup>2</sup>, 300mm<sup>2</sup>.

### 0.6/1kV FR-FA-TPYCY and FA-TPYCY Cable Structure:



### 0.6/1kV FA-TPYCY and FA-TPYCYSLA Cable Structure:





## MC Interlocked Cable

### Interlocked Cable Type List



AC/ACWU90 (-40°C) XLPE 600 Volts 90°C



Teck 90 1kv Aluminum interlocked Armored Cable



Teck 90 5KV 1 Core Non shielded-TR-XLPE Power Cable



Teck 90 1/C Cu 1KV XLPE/PVC AIA PVC-NS



Teck 90 5KV 3 Core Non-Shielded EPR Power Cable



Teck 90 3 Core 5KV NS TR-XLPE Power Cable

### Application:

For exposed and concealed wiring in dry or wet locations and where exposed to the weather. For use in ventilated, non-ventilated and ladder type cable trays in wet and dry locations.

For direct earth burial (with protection as required by Inspection Authority).

For service entrance above or below ground.

For use in hazardous locations with approved connectors.

Minimum recommended installation temperature minus 40°C. (with suitable handling procedures).

Maximum conductor temperature 90°C.

### Interlocked MC Cable Parameter Data:

Type	Rated Voltage					
	0.6/1kv		8.7/10KV, 8.7/15KV		26/35KV	
	Cross-sectional area(mm <sup>2</sup> )	Core	Cross-sectional area(mm <sup>2</sup> )	Core	Cross-sectional area(mm <sup>2</sup> )	Core
GZ-YJHLV(TC90)	10-630	1-5	25-630	1,3	50-630	1,3
GZ-YJHLV22	10-630	2-5	25-630	3	50-630	3
GZ-YJHLV8(AC90)	10-630	2-5	25-630	3	50-630	3
GZ-YJHLV8(ACWU90)	10-630	2-5	25-630	3	50-630	3

## ESP Cable/THHN, THWN, THWN-2 Cable

### Flat/Round Armoured Submersible Oil Pump ESP Cable



**Voltage:** 1/35KV

**Conductor:** Copper

**Insulation:** EPR or PP

**Core:** 3 core

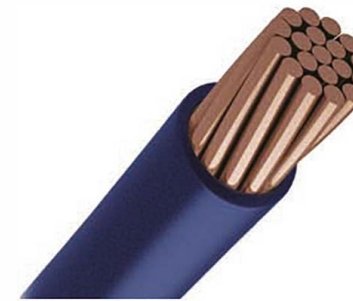
**Armoured:** Galvanized Steel Armor

**Standard:** GB/ IECA/ ASTM/DIN/BS/VDE etc.

### Oil pump cable application and features:

It is applicable to the flat power cable for electric submersible oil(submersible water and halogen element) pump at rated voltage up to and including 3.6/6kv, the lower end of flat power cable is connected to the submersible motor and the upper end of flat power cable is connected to the cabinet on the ground. Long-term operating temperature of conductor shall be 120°C, The cable has excellent features of oil, heat and corrosion resistant.

### THHN/THWN/THWN-2 Nylon Cable



### Construction:

**Voltage: 600V**

**Conductors:** Solid, uncoated copper conductors per ASTM-B3, Stranded, uncoated copper conductors per ASTM-B3, ASTM-B787 and ASTM-B8

**Insulation:** Color-coded Polyvinyl Chloride (PVC), heat and moisture resistant, flame-retardant compound per UL-1063 and UL-83.

**Standard:** UL,ASTM, ICEA etc.

### THHN /THWN-2 -NYLON-COPPER CONDUCTOR Parameter Data:

Conductor		Insulation Thickness	Jacket Thickness	Nominal O.D.	Approx. Weight per 1000'	Allowable Ampacities+		
Size(AWG or kcmil)	Number of Strands	(mils)	(mils)	(mils)		60° C	75° C	90° C
14	1	15	4	102	15	15	15	
12	1	15	4	119	23	20	20	
10	1	20	4	150	36	30	30	
2	19	40	6	378	234	95	115	
1	19	50	7	435	299	110	130	
1/0	19	50	7	474	372	125	150	
2/0	19	50	7	518	462	145	175	
3/0	19	50	7	568	575	165	200	

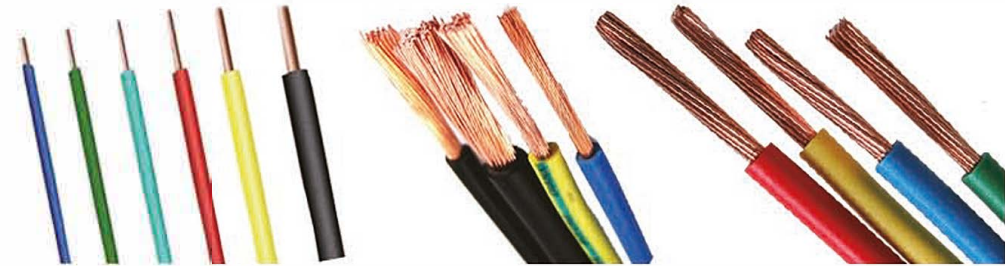


## Building Cable

### H07V/H05-K, H07V/H05-U, H07V/H05-R Cable



H07V-K Cable H07V-R Cable H07V-U Cable



H05V-U Cable

H05V-R Cable

H05V-K Cable

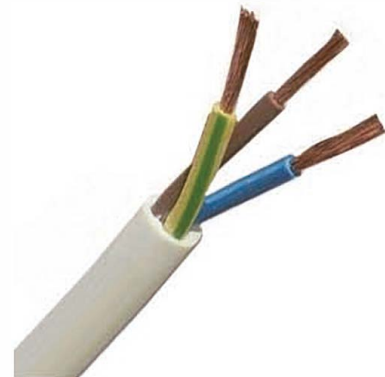
#### Application:

**H07/H05V-K cable** used for the internal wiring of electric motors and transformers as well as other electrical appliances and lighting applications.

**H07/H05V-U cable** is intended for the installation to the inside of apparatus as well as for the protective laying to the lightings, in dry rooms, in production facilities, switch and distributor boards, in tubes, under etc.

**H07/H05V-R cable** is preferably for installation indoors, in cable ducts and in industrial plants or switching stations, under ground installation. Can be used in switchboards and distributor boards or where a thicker strand of multi-wire is required.

### H03VV-F/H05VV-F PVC/PVC Cable



**Voltage:** 300/300V, 300V/500V.

**Conductor:** bare copper, fine wired stranded, class .

**Insulation:** PVC compound T12 acc. to DIN VDE 0207 part 4/ HD 21.1 S4, concentrically stranded cores . marked acc. to HRN HD 308 S2 / DIN VDE 0293-308, with or without yellow-green protective conductor.

**Sheath:** PVC compound TM2 for flexible cables acc.

**sheath colour:** white or black

**Temperature range:**

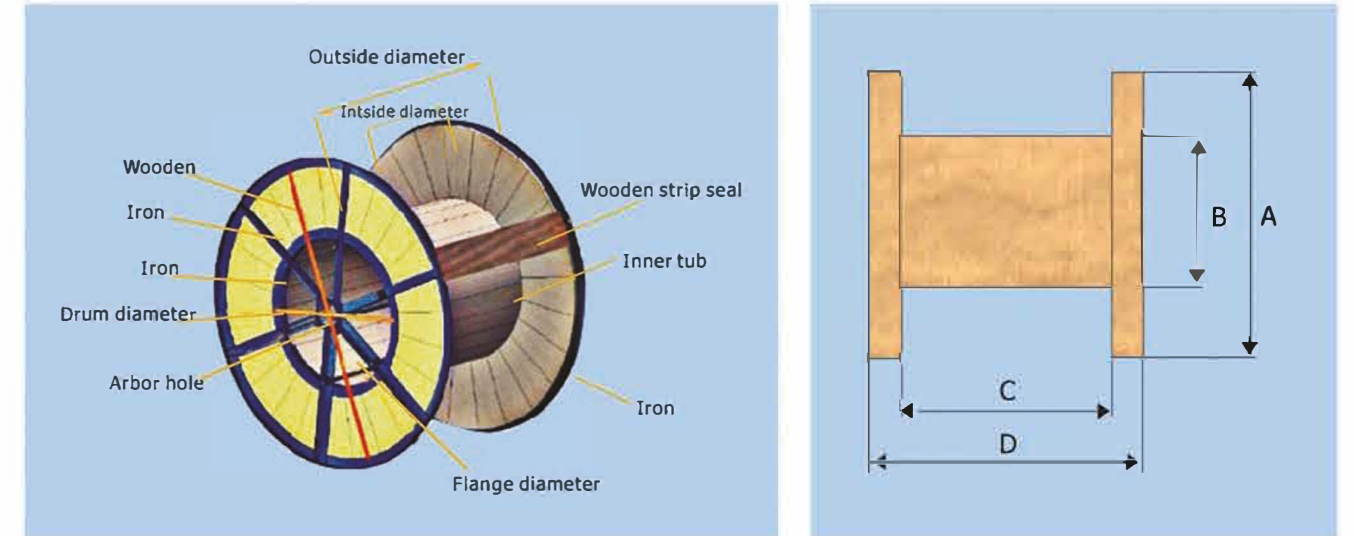
during installation: +5 °C up to +70 °C

fixed installed: -30 °C up to +70 °C

at short circuit of max. 5 s: up to 150 °C

ambient temperature at storage: up to 40 °C

## Cable Drum Structure Schematic Diagram



### The Dimensions in mm are Shown Below

Drum Number	A Drum Overall Diameter	B Inner Diameter	C Inner Width	D Outer Width
600	630	315	370	450
800	800	400	520	600
1000	1.000	500	610	710
1250	1.250	630	710	810
1400	1.400	710	810	930
1600	1.600	900	980	1.100
1800	1.800	1.120	960	1.100
2000	2.000	1.250	960	1.100
2200	2.240	1.400	1.190	1.350
2500	2.500	1.500	1.190	1.350

### Container Specification

Size	Interior Dimension	Door Opening	Tare Weight	Cubic Capacity	Container Payload
20'Dry Cargo	L:5919mm	W:2286mm	4189LBS	1165 CU.F	4872LBS
	W:2340mm		1900KGS	33.0 CBM	22100KGS
	H:2380mm		H:2278mm		
40'Dry Cargo	L:12045mm	W:2289mm	6799LBS	2377 CU.FT	60397LBS
	W:2306mm		3084KGS	67.3 CBM	27396KGS
	H:2379mm		H:2278mm		