



## LV and MV Cold Shrink Product Manual

Let's make it safer!



**CYG Electric Co., Ltd.**

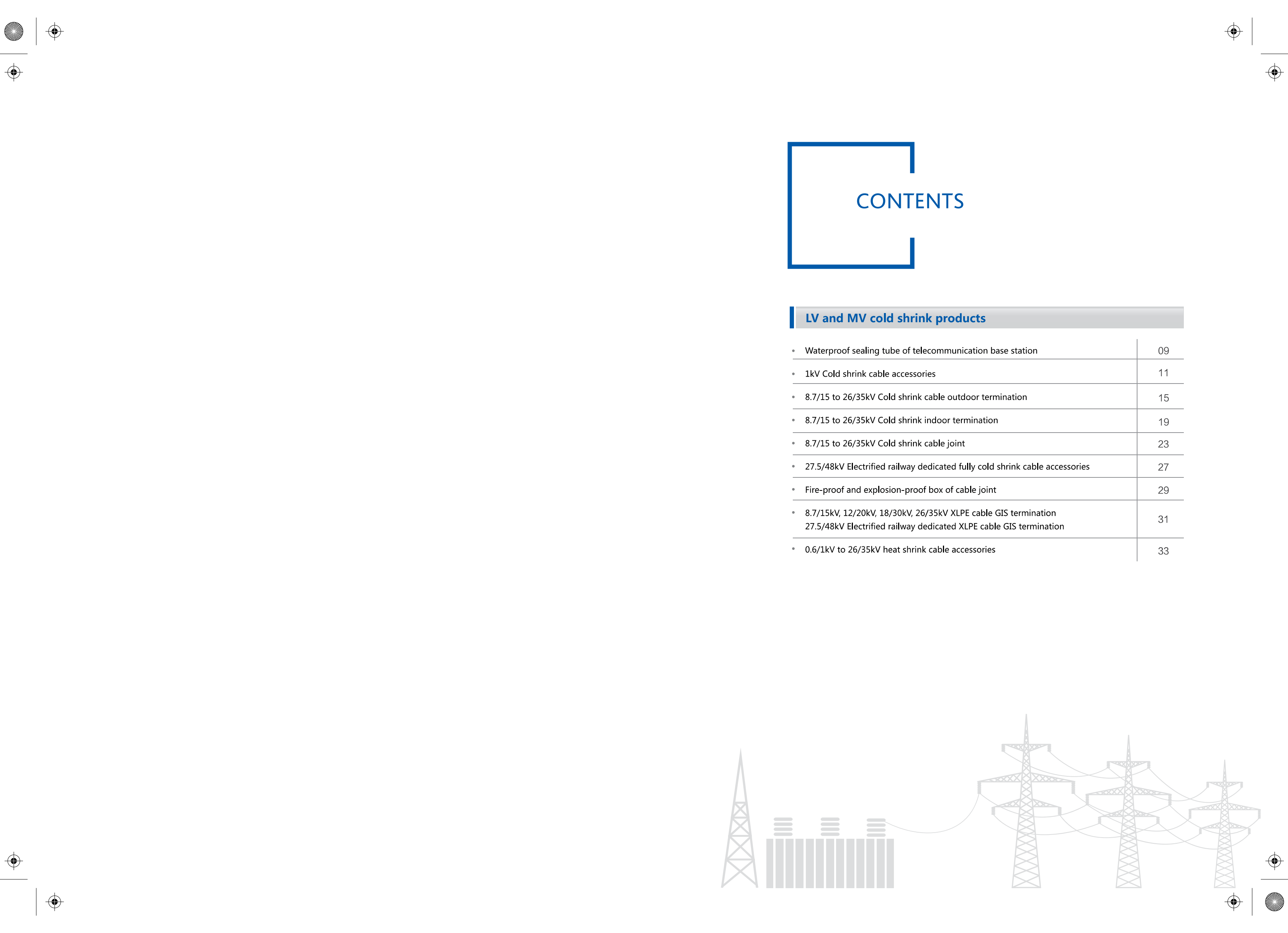
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**CYG**

CYG Electric Co., Ltd





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# Let's make it smarter and stronger

**Focus on line security for 32 years**

**World-class supplier of cable accessories and smart grid equipment**

CYG Electric Co., Ltd (Abbreviation: CYG Electric) is a subsidiary of Changyuan Group (Stock Code: 600525.sh), which engages itself as a state-level hi-tech company in the development, manufacturing and sales of power cable accessories, ring main unit, branch boxes and other automatic distribution equipment. As the model of rising national manufacturing industry, CYG Electric realizes the breakthrough from importing foreign products to completely researching and producing products by independent intellectual property rights, serving as a market leader with its excellent quality which surpasses far more than foreign products.

With 30 years of trials and hardships, CYG Electric keeps the product quality of "independent innovation, people oriented and consistency", escorting for circuit security. It will stick to the enterprise spirit of "integrity, inclusiveness, passion, respect", the mission of "The best partner for line security. Make the grid stronger and smarter" and continue to adhere to technology and management innovation for serving the transmission and distribution systems with high quality products.



## A number of national key engineering practices With consistent stability and security

Let's make it smarter  
and stronger

The products produced by CYG Electric are widely used in the State Grid, China Southern Power Grid, steel, petrochemicals, railways and other industries. Key projects like Qinghai-Tibet Railway, Beijing Olympic Venues, Hangzhou Bay Bridge, Shenzhen Metro are adopting products of CYG.

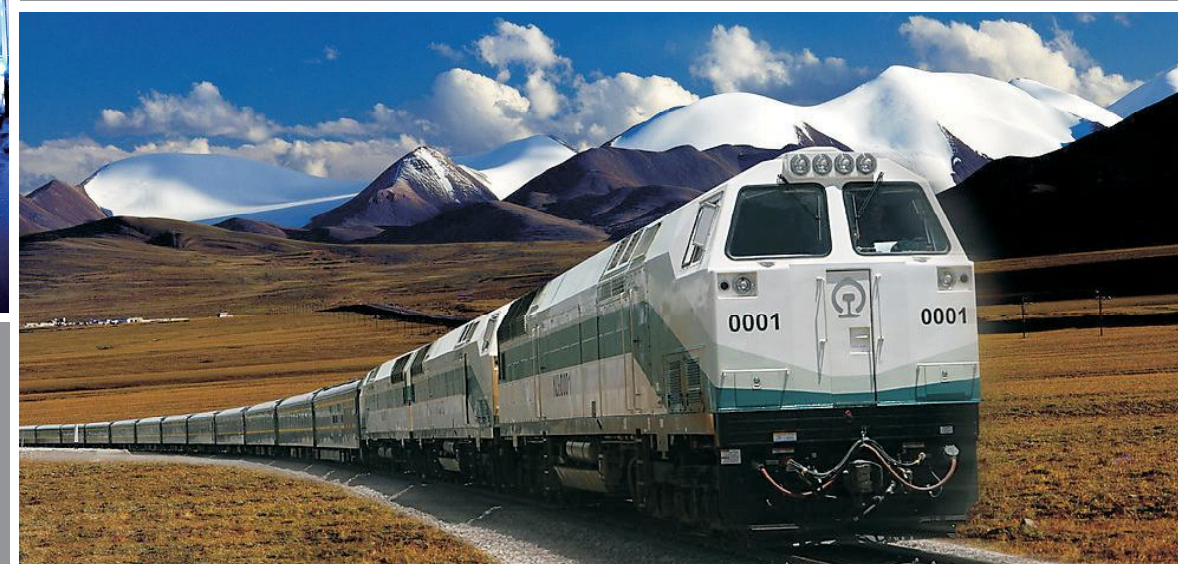


▲ Unique Cable Accessory Supplier of Beijing Olympic Venue



▲ Hong kong-zhuhai-macao bridge project

▼ Unique Cable Accessory Supplier of Qinghai-Tibet Railway Lhasa – Golmud Full Line





## Project cases

## PROVIDING HIGH QUALITY PRODUCTS AND SERVICES TO NATIONAL KEY PROJECTS



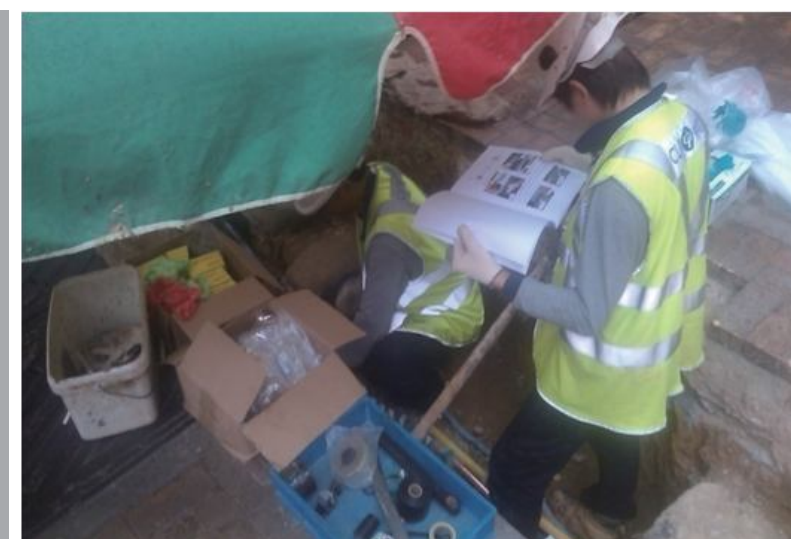
27.5/48kV Uzbekistan Railway Project ▲

◀ Zhoushan±200kV Flexible DC Power  
Transmission Technology  
Demonstration Project

Mongolia 35kV Engineering Project ▶



◀ Beijing 220kV Northwest Thermal Power Center Line Project



◀ Hong Kong Subway Project





Let's make it stronger and smarter





# Waterproof sealing tube of telecommunication base station

## Product introduction

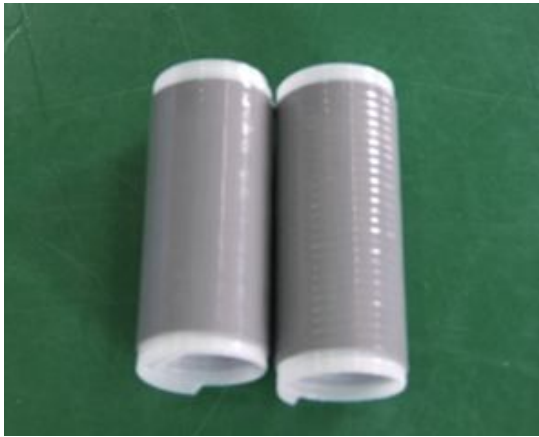
The waterproof sealing tube of telecommunication base station, which is made of imported raw material silicone rubber, is the product specially designed and developed by CYG Electric for communications and power industry. It has passed ROHS environmental test and SGS laboratory test, and its performance is fully in line with the application of power and communication industries.



## Specification

The waterproof sealing tube of telecommunication base station, which is made of imported raw material silicone rubber, is the product specially designed and developed by CYG Electric for communications and power industry. It has passed ROHS environmental test and SGS laboratory test, and its performance is fully in line with the application of power and communication industries.

Product name	Before expansion		After expansion
	Inner diameter mm	Length mm	Inner diameter mm
CYG-CSS	Φ9	100-300	30
CYG-CSS	Φ11	100-300	33
CYG-CSS	Φ14	100-300	38
CYG-CSS	Φ16	100-300	43
CYG-CSS	Φ19	100-300	48
... ..	... ..	... ..	... ..
CYG-CSS	Φ40	100-300	100
Note: It can customize the standard size according to the customer' s requirement			



## Performance parameter

Performance item	Standard	Unit	Value
Operational temperature range		℃	-45 ~ 120
Volume resistivity	ASTMD257-07	Ω •m	≥1012
Dielectric strength	ASTM D 149	kV/mm	≥26
Tensile strength	GB/T528-1998	MPa	≥7.0
Fracture elongation	GB/T528-1998	%	300
Tear strength -B type	GB/T529-2008	kN/m	≥25
Hardness (Shore A)	GB/T531.1-2008		35-45
Waterproof performance	GB 4208-2008		IP66和IP68
Flame retardancy	UL 94		FV-0

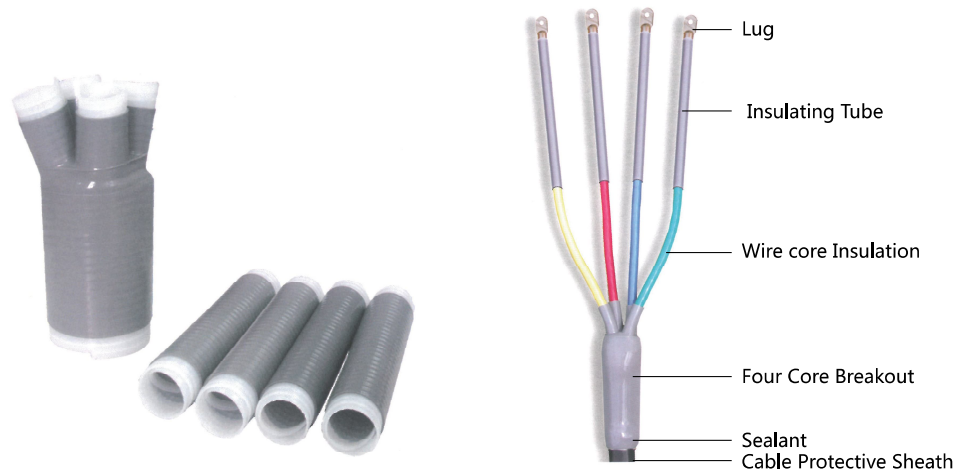
Ultraviolet radiation	ASTM G154-06	After the test, there is no cracking and has no effect on waterproof performance.
Ozone aging	ASTM D518-99	After the test, there is no cracking and has no effect on waterproof performance.
Anti-fungal test	ASTM D1149-07 GB/T2423.16-1999	After the test, it' s mildew degree is zero level, which has no effect on waterproof performance.
Temperature cycle test		-40~65℃ ( After 10 temperature cycles, no change in sealing performance )



# 1kV Cold shrink cable accessories

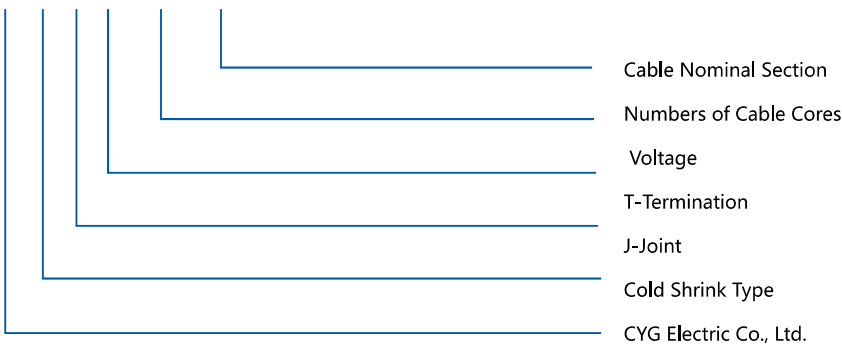
## Product introduction

This product can be applied to the termination process and connection for 1kV XLPE cable, which can be divided into single core, two core, three core, four core and five core products.



## Product Model

CDL□1-□x□



## Specification

Model	Name	Applicable Cable Cross-sectional Area mm <sup>2</sup>
CDLT 1-1X1	1kV Cable Termination(Single core)	25-50
CDLT 1-1X2		70-120
CDLT 1-1X3		150-185
CDLT 1-1X4		240-400
CDLT 1-4X1	1kV Cable Termination(Four cores)	25-50
CDLT 1-4X2		70-120
CDLT 1-4X3		150-185
CDLT 1-4X4		240-400
CDLT 1-5X1	1kV Cable Termination(Five cores)	25-50
CDLT 1-5X2		70-120
CDLT 1-5X3		150-185
CDLT 1-5X4		240-400
CDLJ 1-4X1	1kV Cable Joint(Four cores)	25-50
CDLJ 1-4X2		70-120
CDLJ 1-4X3		150-185
CDLJ 1-4X4		240-400

## Main Test Project

Test Project	Standard Requirement	Test Result	Detailed Note
1min Power Frequency Withstand Voltage Test	4 kV no flashover, no breakdown	4 kV /1min no flashover, no breakdown	Pass
Load Cycle Test	Heating for 5h, cooling down for 3h; The conductor temperature is 75°C when heating(3 cycles)	Heating for 5h, cooling down for 3h; The conductor temperature is 75°C when heating(3 cycles)	Evaluated by the following test
4h Power Frequency Withstand Voltage Test	2.4 kV no flashover, no breakdown	2.4kV/4h no flashover, no breakdown	Pass



## 8.7/15kV to 26/35kV Fully cold shrink outdoor termination

### Product introduction

Outdoor cables are the termination that are used when exposed to direct sunlight or exposed to climatic conditions or both.

Cold shrink outdoor termination is made of silicone rubber and can be applied to Voltage of 8.7/15 to 26/35kV single core or three core XLPE insulated cable.

### External Structure and Installation Size



8.7/15kV Cold shrink outdoor termination



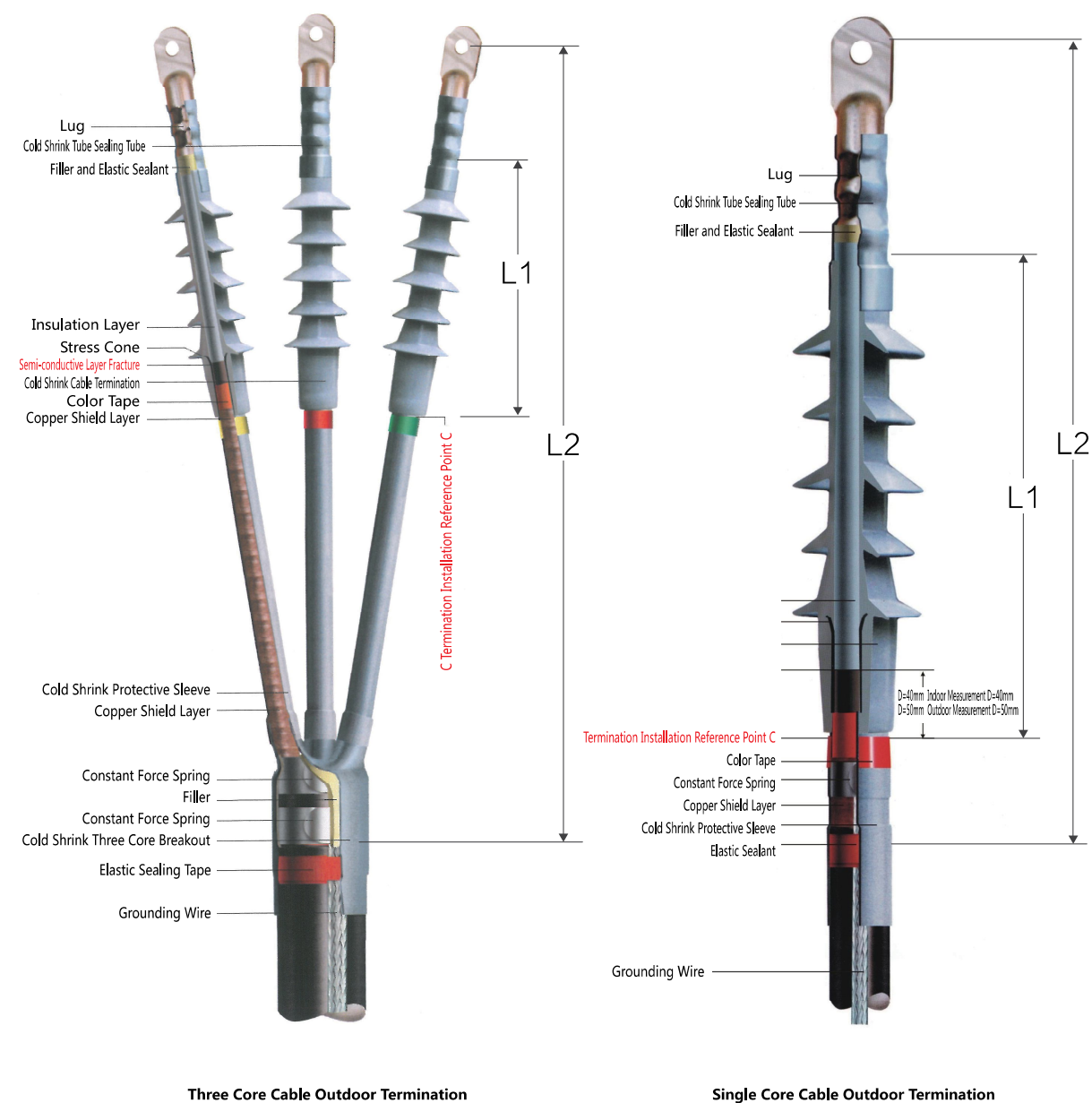
12/20kV Cold shrink outdoor termination



18/30kV Cold shrink outdoor termination



26/35kV Cold shrink outdoor termination

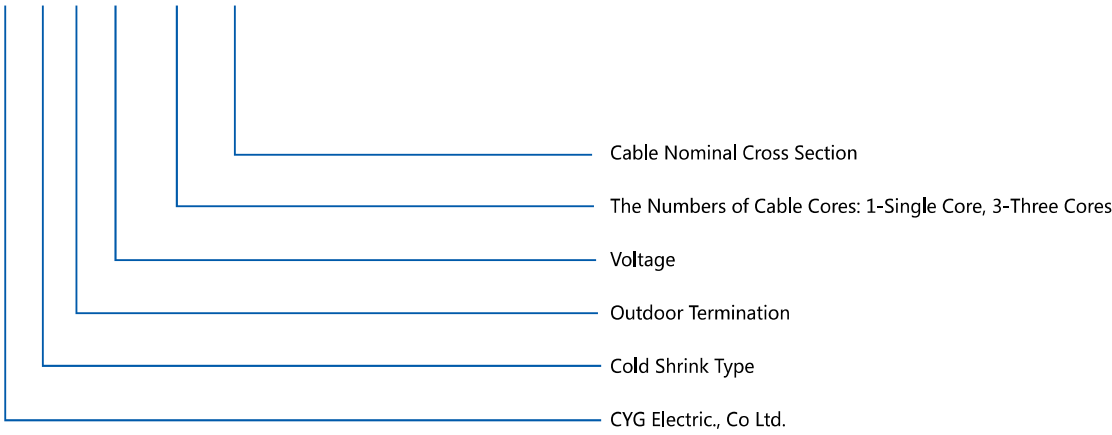


Size (mm)	Three Core Cable Outdoor Termination				Single Core Cable Outdoor Termination			
	8.7/15kV	12/20kV	18/30kV	26/35kV	8.7/15kV	12/20kV	18/30kV	26/35kV
L1	285	320	390	455	285	320	390	455
L2	960	990	990	1060	435	490	540	625
Note	L2 is regular size, the actual length can be changed according to customer's requirement.							



Product Model

CDLW□-□x□



Selection Table of Fully Cold Shrink Outdoor Termination

<div>Voltage</div> <div>Specification</div>	8.7/15 kV	12/20 kV	18/30 kV	26/35 kV
1#	CDLW15-3(1) × 25-50	CDLW20-3(1) × 25-50	CDLW30-3(1) × 35-70	CDLW30-3(1) × 35-70
2#	CDLW15-3(1) × 70-120	CDLW20-3(1) × 70-120	CDLW30-3(1) × 95-185	CDLW30-3(1) × 95-185
3#	CDLW15-3(1) × 150-240	CDLW20-3(1) × 150-240	CDLW30-3(1) × 240-400	CDLW30-3(1) × 240-400
4#	CDLW15-3(1) × 300-400	CDLW20-3(1) × 300-400	CDLW30-3(1) × 500-800	CDLW30-3(1) 500及以上
5#	CDLW15-3(1) × 500-800	/	/	/

Electrical Parameter

Test Item	Standard Requirement and Test Result			
	8.7/15kV	12/20kV	18/30kV	26/35kV
5min Power Frequency Voltage Test	39 kV	54 kV	81 kV	117 kV
	No Breakdown, No Flashover			
Partial Discharge Test	15kV	20kV	30kV	45kV
	No Detectable Discharge			
Constant Pressure Load Cycle Test in Air	22 kV	30kV	45kV	65kV
	Heat the conductor to the temperature of 95℃ to 100℃, total for 60 cycles. No breakdown, no flashover.			
Impulse Voltage Test	95 kV	125 kV	170 kV	200 kV
	Positive and negative polarity each for 10 times, no breakdown, no flashover			
Outdoor Termination Humidity Test	11 kV, 1000h	15 kV, 1000h	22.5 kV, 1000h	32.5 kV, 1000h
	No breakdown, no flashover, no electric erosion corrosion and mechanical damage			
Maximum Allowable Temperature under Normal Operation	90 ℃	90 ℃	90℃	90℃
Maximum Allowable Temperature under Short Circuit	250℃, 5 s	250℃, 5 s	250℃, 5 s	250℃, 5 s





## 8.7/15kV to 26/35kV Fully cold shrink indoor termination

### Product introduction

Indoor cable is the termination that are not allowed to expose to direct sunlight or expose to climatic conditions. Cold shrink indoor termination is made of silicone rubber, which can be applied to single core or three core XLPE insulated cable at Voltage of 8.7/15-26/35kV.

### External Structure and Installation Size



8.7/15kV Cold Shrink Indoor Termination



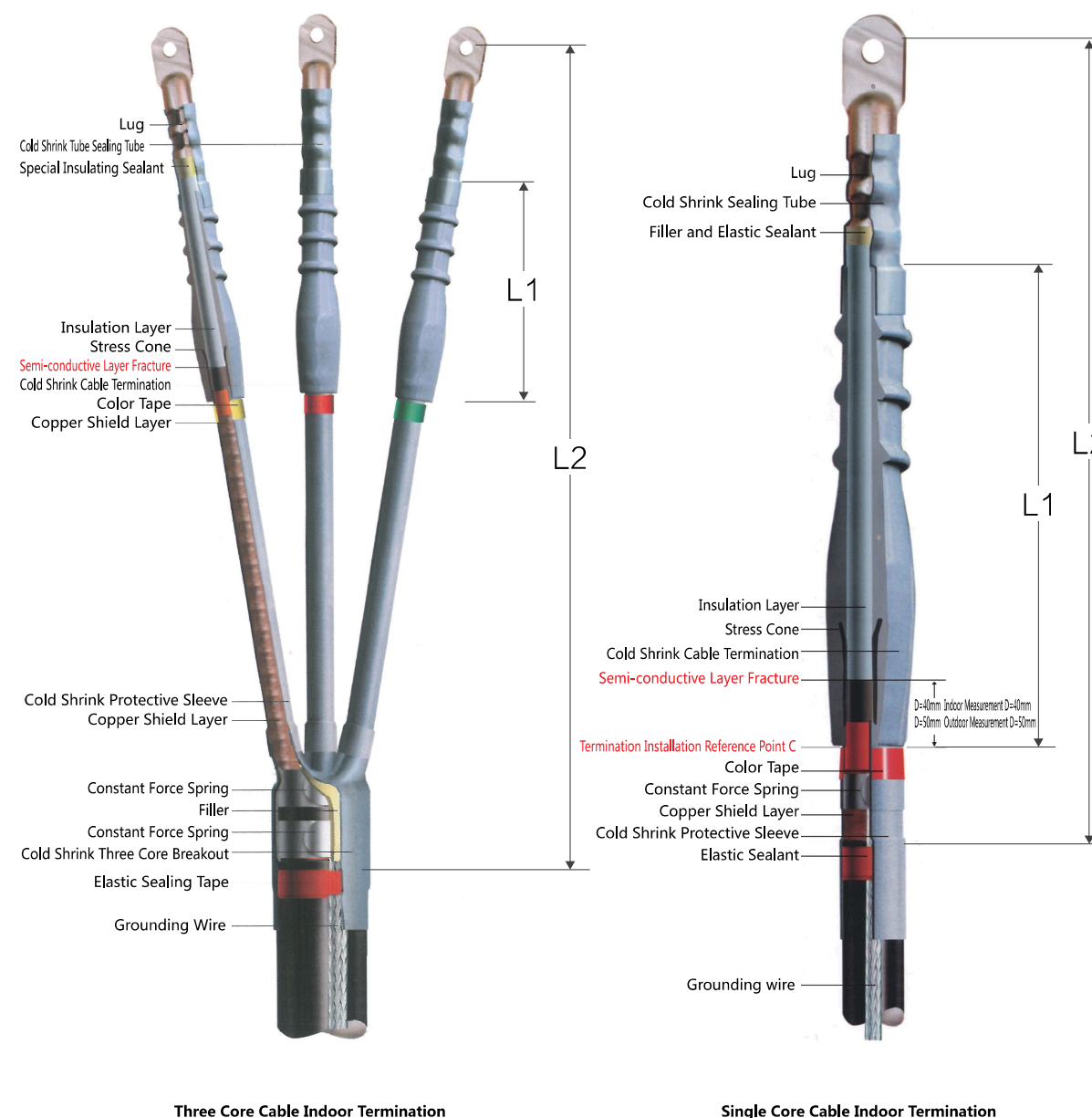
12/20kV Cold Shrink Indoor Termination



18/30kV Cold Shrink Indoor Termination



26/35kV Cold Shrink Indoor Termination

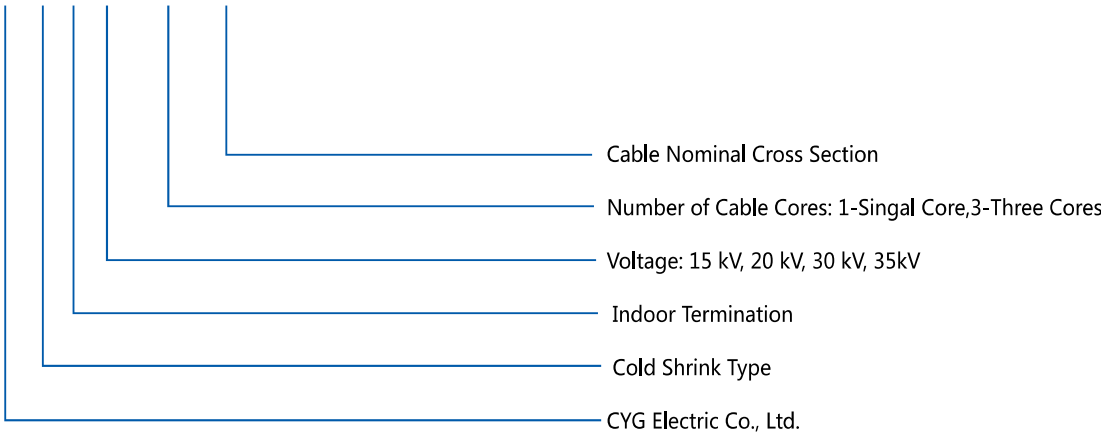


Size (mm)	Three Core Cable Indoor Termination				Single Core Cable Indoor Termination			
	8.7/15 kV	12/20 kV	18/30 kV	26/35 kV	8.7/15 kV	12/20 kV	18/30 kV	26/35 kV
L1	210	266	330	380	210	266	330	380
L2	870	940	940	970	370	440	500	560
Note	L2 is regular size, the actual length can be changed according to customer's requirement.							



Product Model

CDLN□-□x□



Selection Table of Fully Cold Shrink Indoor Termination

<div>Voltage</div> <div>Specification</div>	8.7/15 kV	12/20 kV	18/30 kV	26/35 kV
1#	CDLN15-3(1) × 25-50	CDLN20-3(1) × 25-50	CDLN30-3(1) × 35-70	CDLN35-3(1) × 35-70
2#	CDLN15-3(1) × 70-120	CDLN20-3(1) × 70-120	CDLN30-3(1) × 95-185	CDLN35-3(1) × 95-185
3#	CDLN15-3(1) × 150-240	CDLN20-3(1) × 150-240	CDLN30-3(1) × 240-400	CDLN35-3(1) × 240-400
4#	CDLN15-3(1) × 300-400	CDLN20-3(1) × 300-400	CDLN30-3(1) × 500-800	CDLN35-3(1) 500 及以上
5#	CDLN15-3(1) × 500-800	/	/	/

Electrical Parameter

Test Item	Standard Requirement and Test Result			
	8.7/15kV	12/20kV	18/30kV	26/35kV
5min Power Frequency Voltage Test	39 kV	54 kV	81 kV	117 kV
	No Breakdown, No Flashover			
Partial Discharge Test	15kV	20kV	30kV	45kV
	No Detectable Discharge			
Constant Pressure Load Cycle Test in Air	22 kV	30kV	45kV	65kV
	Heat the conductor to the temperature of 95℃ to 100℃, total for 60 cycles. No breakdown, no flashover.			
Impulse Voltage Test	95 kV	125 kV	170 kV	200 kV
	Positive and negative polarity each for 10 times, no breakdown,no flashover			
Outdoor Termination Humidity Test	11 kV, 300 h	15 kV, 300 h	22.5 kV, 300 h	32.5 kV, 300 h
	No breakdown, no flashover, no electric erosion and mechanical damage			
Maximum Allowable Temperature under Normal Operation	90℃	90℃	90℃	90℃
Maximum Allowable Temperature under Short Circuit	250℃, 5 s	250℃, 5 s	250℃, 5 s	250℃, 5 s





# 8.7/15kV to 26/35kV Fully cold shrink cable joint

## Product introduction

Joint is the accessory that connects two cables to form a continuous circuit.  
Cold Shrink Cable Joint is made of silicone rubber, which can be applied to single core or three core XLPE insulated cable at Voltage of 8.7/15-26/35kV.

## External Structure and Installation Size



8.7/15kV Cold Shrink Cable Joint



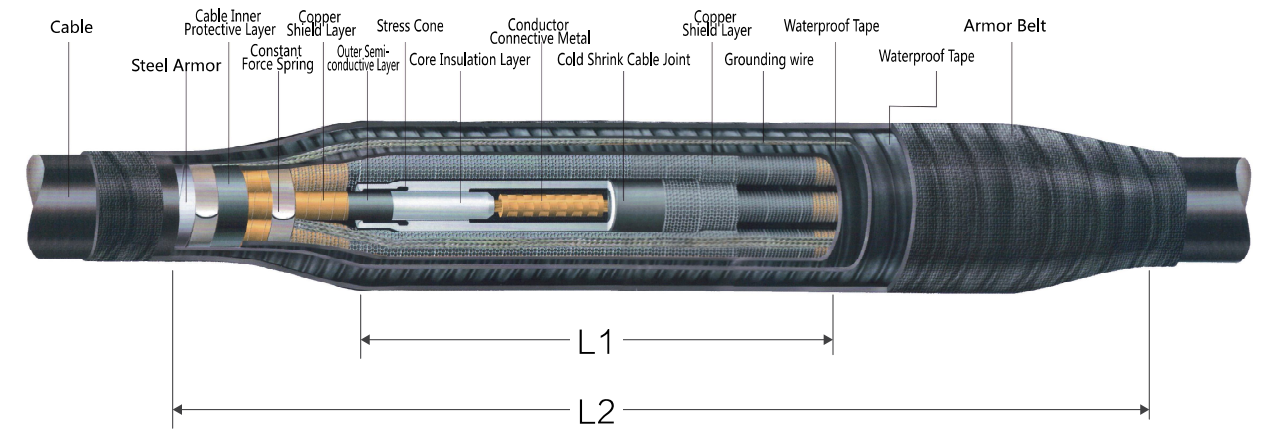
12/20kV Cold Shrink Cable Joint



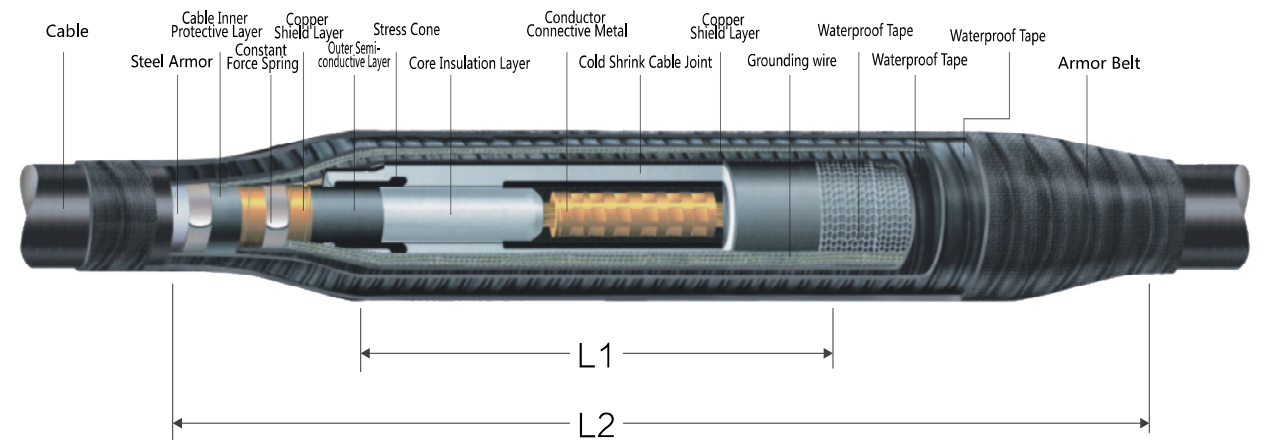
18/30kV Cold Shrink Cable Joint



26/35kV Cold Shrink Cable Joint



Three Core Cable Joint



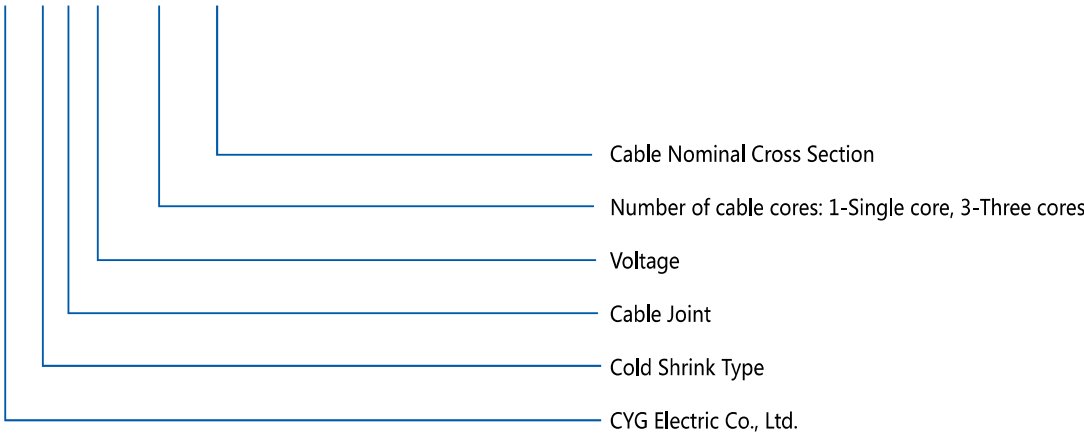
Single Core Cable Joint

Size (mm)	There Cores Cable Joint				Single Core Cable Joint			
	8.7/15 kV	12/20 kV	18/30 kV	26/35 kV	8.7/15 kV	12/20 kV	18/30 kV	26/35 kV
L1	350~440	460~490	460~490	500~520	350~440	460~490	460~490	500~520
L2	1400	1500	1500	1500	1300	1400	1400	1400



Product Model

CDLJ□-□x□



Selection Table of Fully Cold Shrink Cable Joint

<div>Voltage</div> <div>Specification</div>	8.7/15 kV	12/20 kV	18/30 kV	26/35 kV
1#	CDLJ15-3(1) × 25-50	CDLJ20-3(1) × 25-50	CDLJ30-3(1) × 35-70	CDLJ35-3(1) × 50-70
2#	CDLJ15-3(1) × 70-120	CDLJ20-3(1) × 70-120	CDLJ30-3(1) × 95-185	CDLJ35-3(1) × 95-240
3#	CDLJ15-3(1) × 150-240	CDLJ20-3(1) × 150-240	CDLJ30-3(1) × 240-400	CDLJ35-3(1) × 300-400
4#	CDLJ15-3(1) × 300-400	CDLJ20-3(1) × 300-400	CDLJ30-3(1) × 500-800	CDLJ35-3(1) × 500-630
5#	CDLJ15-3(1) × 500-800	/	/	CDLJ35-3(1) × 800

Electrical Parameter

Test Item	Standard Requirement and Test Result			
	8.7/15kV	12/20kV	18/30kV	26/35kV
5min Power Frequency Voltage Test	39 kV	54 kV	81 kV	117 kV
	No Breakdown, No Flashover			
Partial Discharge Test	15kV	20kV	30kV	45kV
	No Detectable Discharge			
Constant Pressure Load Cycle Test in Air	22 kV	30kV	45kV	65kV
	Heat the conductor to the temperature of 95°C to 100°C, total for 60 cycles. No breakdown, no flash			
Impulse Voltage Test	95 kV	125 kV	170 kV	200 kV
	Positive and negative polarity each for 10 times, no breakdown, no flashover			
Joint Water-immersion Test	11 kV	15 kV	22.5 kV	32.5 kV
	30 cycles, no breakdown, no flashover, no electrical erosion and mechanical damage			
Maximum Allowable Temperature under Normal Operation	90℃	90℃	90℃	90℃
Maximum Allowable Temperature under Short Circuit	250℃, 5 s	250℃, 5 s	250℃, 5 s	250℃, 5 s





## 27.5/48kV Electrified railway dedicated fully cold shrink cable accessories

### Product introduction

This series of product is a kind of integrated cable accessories made by silicone rubber, which is specially designed for electrified high speed railway market and for connecting 27.5kV railway cable. The product complies with IEC 60502-4, GB/T 18889 and GB/T 12706.4 standard requirement.

This series of product can be applied to single core XLPE insulated cable at Voltage of 27.5/48kV.

### External Structure and Installation Size



27.5/48kV Cold Shrink Outdoor Termination

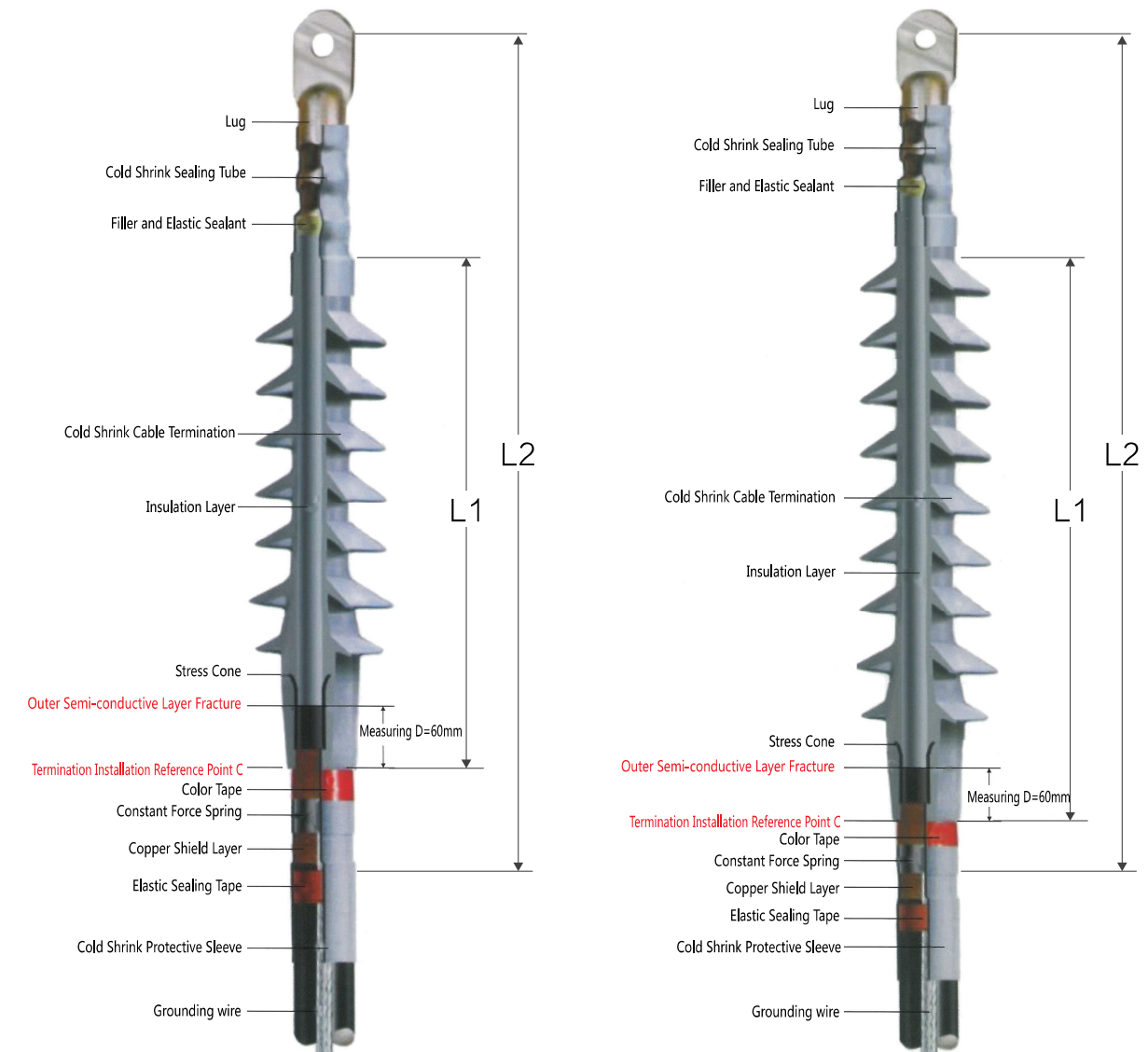


27.5/48kV Cold Shrink Indoor Termination

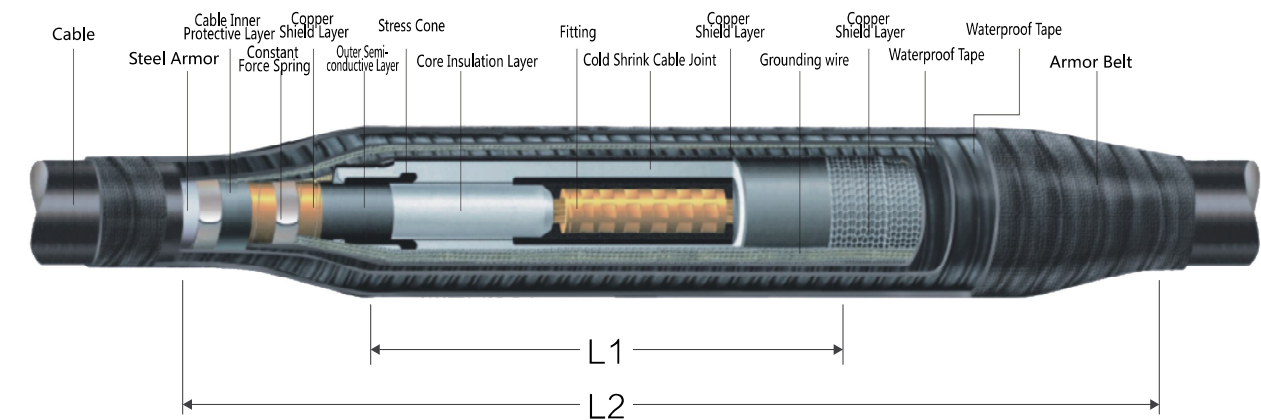


27.5/48kV Cold Shrink Cable Joint

Size (mm)	Outdoor Termination	Indoor Termination	Joint
L1	603	500	527
L2	820	670	1400
爬距	≥1399	≥1121	/

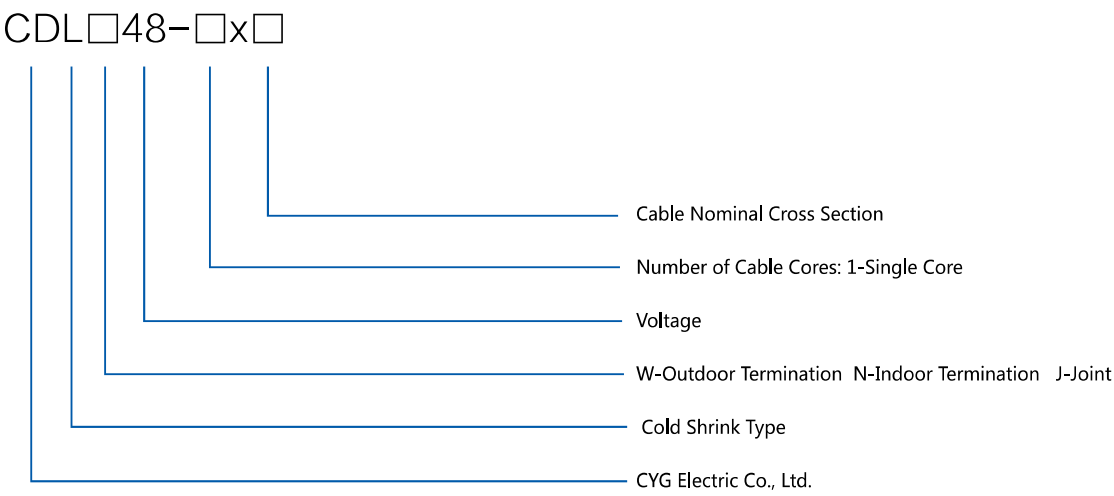


Single Core Cable Outdoor (Indoor) Termination



Single Core Cable Joint

Product Model



Selection Table of Fully Cold Shrink Cable Joint

Type Specification	Outdoor Termination	Indoor Termination	Joint
1#	CDLW48-1×35-70	CDLN48-1×35-70	CDLJ48-1×35-70
2#	CDLW48-1×95-185	CDLN48-1×95-185	CDLJ48-1×95-185
3#	CDLW48-1×240-400	CDLN48-1×240-400	CDLJ48-1×240-400

Electrical Parameter

27.5/48kV Cable Accessories Test Item and Standard Requirement	
5min Power Frequency Withstand Voltage Test	124kV, No Breakdown, No Flashover
Partial Discharge Test	Under 48kV, no detectable discharge
Constant Pressure Load Cycle Test in Air	Under `69kV,heat the conductor to 95℃ to 100℃, make the termination go through 60 cycles or make the cable joint go through 30 cycles, no breakdown ,no flashover.
Impulse Voltage Test	Under 250kV, positive and negative poles each for 10 times, no breakdown, no flashover.
Salt-spray Test of Outdoor Termination	34.5kV, 1000h, No Breakdown, No Flashover, No Electrical Erosion and Mechanical Damage
Humidity Test of Indoor Termination	34.5kV, 300h, No Breakdown, No Flashover, No Electrical Erosion and Mechanical Damage
Water Immersion Test of Cable Joint	Under 22.5kV, after 30 cycles, no breakdown, no flashover, no electrical erosion and mechanical damage.
Maximum Allowable Temperature under Normal Operation	90 ℃
Maximum Allowable Temperature under Short Circuit	250 ℃ , 5 s





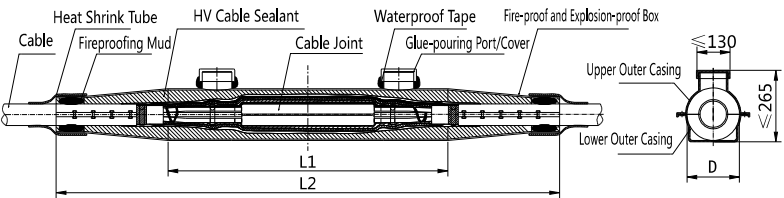
# Cable Joints fire and explosion protection box

## Product introduction

Fire-proof and explosion-proof box of cable joint has good properties of corrosion resistance and water resistance. It can be immersed in water for a long time, and its shape, corrosion resistance property and water resistance property will not changed due to moisture or water immersion. Its inner fireproof auxiliary material of inner casing is made by high quality fireproof material. And the integrated sealing grooves are designed on both sides and both ends of the casing of fire-proof and explosion-proof box. The sealing part are designed according to the integrated sealing grooves on both sides and both ends of the casing of fire-proof and explosion-proof box. The sealing part and the sealing groove match each other exactly when installation. The sealing rings of two casing ports are arranged according to the cable cross section to fully solve the sealing problem. Providing a better operating environment for the cable joints can reduce the accident rate caused by long-term water soaking in the cable joints and the operating environment, effectively prevent cable accidents and inhibit secondary accidents. Fire-proof and explosion-proof box is suitable for using in harsh environments such as cable trenches and cable wells.



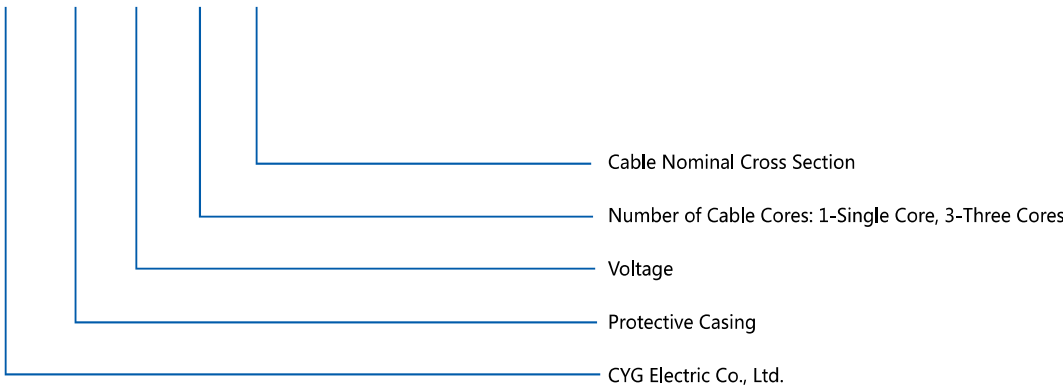
## External Structure and Installation Size



Size mm	BHK-A	BHK-B	BHK-C
L1	800	1000	1200
L2	1400	1800	2000
D	Φ 110	Φ 180	Φ 215

## Product Model

CDBHK□-□x□



## Performance Parameter

Performance	Item	Unit	Technical Performance Indicator
Fire Resistance Performance	Incombustibility	/	Class A
	Flame retardancy	/	Qualified
Explosion-proof Performance	Anti-stretch Strength	MPa	≥520
	Anti-bending Strength	MPa	≥245
	Anti-compression Strength	MPa	≤225
	Anti-impulse Strength	kg/cm <sup>3</sup>	Class A
	Anti-cracking Strength	HB	≤250
Physical and Chemical Property	Composite Strength	/	≥95
	Acid Resistance	/	No obvious change when soaking at room temperature for 90 days
	Alkali Resistance	/	No obvious change when soaking at room temperature for 90 days
	Erosion Resistance	NSS	No defects in neutral salt spray test for 72 hours(reach level 10)

## 8.7/15kV, 12/20kV, 18/30kV, 26/35kV XLPE Cable GIS Termination 27.5/48kV Electrified railway dedicated XLPE cable GIS termination

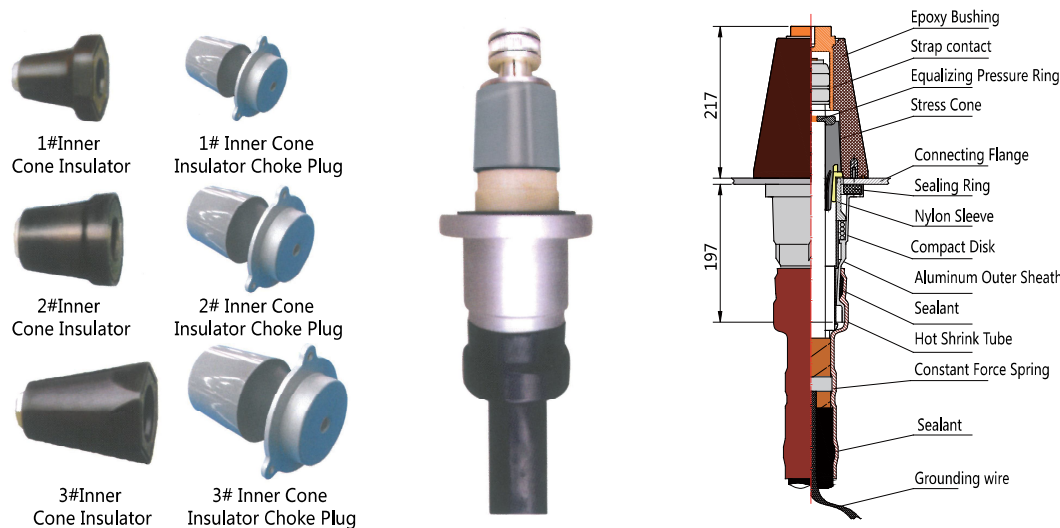
### Product introduction

GIS termination is an insulated metal-enclosed switchgear that obtains at least partial passed insulating gas rather than air under atmospheric pressure.

GIS terminations are widely used in the GIS switchgear cable entrances such as urban network reconstruction, construction sites, residential communities and other load centers. This series of products adopt advanced design concepts at home and abroad and use large electromagnetic field simulation software to optimize and design the product structure. The electric field control element is a stress cone made of silicone rubber, which is prefabricated with advanced production technology. The overall electric field of the product is uniform and the performance is stable, which greatly improves the operational reliability and ensures the safety of personnel.

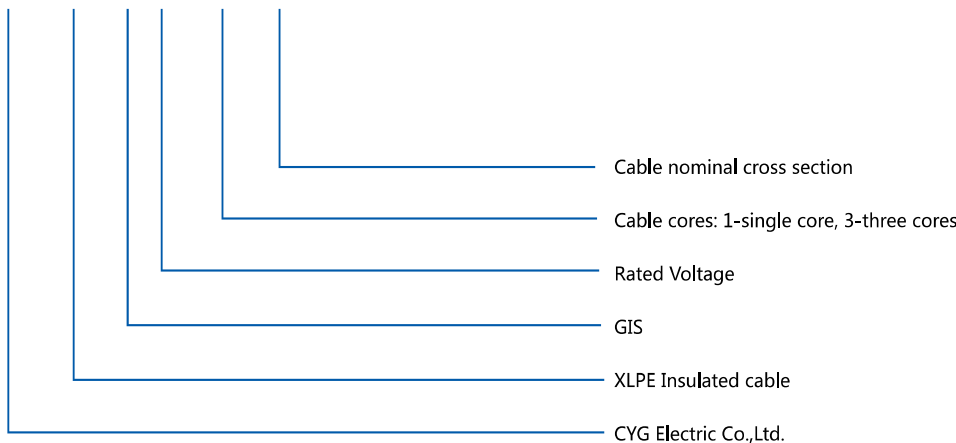
Uniquely designed pluggable device allows epoxy insulators to be pre-installed on switchgear. Cable termination can be installed without opening the GIS equipment gas isolation chamber, making the overall installation easier. Because the entire prefabricated compact design saves about 50% of the termination space.

### External Structure and Installation Size



### Product Model

CDYJZG□-□x□



Name	Applicable cable cross section mm <sup>2</sup>
8.7/15kV, 12/20kV, 18/30kV, 26/35kV XLPE GIS termination	50-800
27.5/48kV Electrified railway dedicated XLPE cable GIS termination	

### Electrical Parameter

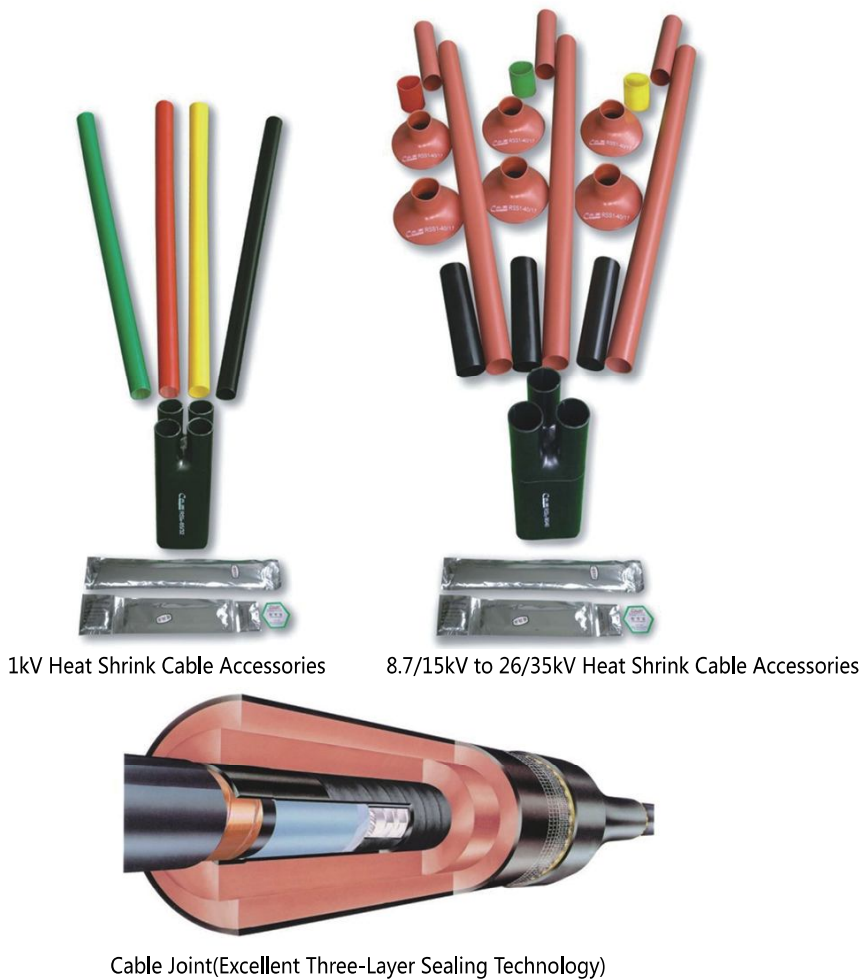
Test Item	Standard Requirement and Test Result				
	8.7/15kV	12/20kV	18/30kV	26/35kV	27.5/48kV
5min Power Frequency Voltage Test	39kV	54kV	81kV	117kV	124kV
	No Breakdown, No Flashover				
Partial Discharge Test	15kV	20kV	30kV	45kV	48kV
	No Detectable Discharge				
Impulse Voltage Test	95 kV	125 kV	170 kV	200 kV	250 kV
	Positive and negative polarity each for 10 times, no breakdown, no flashover				
Thermal Cycle Voltage Test In Air	22kV	30kV	45kV	65kV	69kV
	Heat the conductor to the temperature of 95°C to 100°C, total for 60 cycles.				



## 0.6/1kV to 26/35kV Heat Shrink Cable Accessories

### Product introduction

Heat shrink cable accessory are widely used in joint connection and termination of XLPE cable or oil-immersed cable at 35kV or below voltage rating. Compared with traditional cable accessory, it has the characteristics of small size, light weight, safety, reliability and easy installation. The product is in accordance with GB11033 standard; the long-term used temperature range is -55°C -105°C; the aging life is up to 20 years; radial shrinkage $\geq$ 50%; longitudinal shrinkage <5%; shrinkage temperature is 110°C-140°C.



### Product Model

#### 0.6/1kV Heat Shrink Cable Accessories

Applicable Cable Cross Sectional Area mm <sup>2</sup>	Cable Termination (two cores)	Cable Termination (three cores)	Cable Termination (four cores)	Cable Termination(five cores) 3+2 core,4+1 core
10-16	1kVRST-2/0	1kVRST-3/0	1kVRST-4/0	1kVRST-5/0
25-50	1kVRST-2/1	1kVRST-3/1	1kVRST-4/1	1kVRST-5/1
70-120	1kVRST-2/2	1kVRST-3/2	1kVRST-4/2	1kVRST-5/2
150-240	1kVRST-2/3	1kVRST-3/3	1kVRST-4/3	1kVRST-5/3
300-400	/	1kVRST-3/4	1kVRST-4/4	1kVRST-5/4

Applicable Cable Cross Sectional Area mm <sup>2</sup>	Joint (two cores)	Joint (three cores)	Joint (four cores)	Joint(five cores) 3+2 cores, 4+1 cores
10-16	1kVRSJ-2/0	1kVRSJ-3/0	1kVRSJ-4/0	1kVRSJ-5/0
25-50	1kVRSJ-2/1	1kVRSJ-3/1	1kVRSJ-4/1	1kVRSJ-5/1
70-120	1kVRSJ-2/2	1kVRSJ-3/2	1kVRSJ-4/2	1kVRSJ-5/2
150-240	1kVRSJ-2/3	1kVRSJ-3/3	1kVRSJ-4/3	1kVRSJ-5/3
300-400	/	1kVRSJ-3/4	1kVRSJ-4/4	1kVRSJ-5/4

#### 8.7/15kV Heat Shrink Cable Accessories

Applicable Cable Cross Sectional Area mm <sup>2</sup>	Single Core Indoor Termination	Single Core Outdoor Termination	Single Core Joint
25/50	8.7/15kVRSNY-1/1	8.7/15kVRSWY-1/1	8.7/15kVRSJY-1/1
70/120	8.7/15kVRSNY-1/2	8.7/15kVRSWY-1/2	8.7/15kVRSJY-1/2
150/240	8.7/15kVRSNY-1/3	8.7/15kVRSWY-1/3	8.7/15kVRSJY-1/3
300	8.7/15kVRSNY-1/4	8.7/15kVRSWY-1/4	8.7/15kVRSJY-1/4
400	8.7/15kVRSNY-1/5	8.7/15kVRSWY-1/5	8.7/15kVRSJY-1/5
500	8.7/15kVRSNY-1/6	8.7/15kVRSWY-1/6	8.7/15kVRSJY-1/6
630	8.7/15kVRSNY-1/7	8.7/15kVRSWY-1/7	8.7/15kVRSJY-1/7
800	8.7/15kVRSNY-1/8	8.7/15kVRSWY-1/8	8.7/15kVRSJY-1/8

8.7/15kV Heat Shrink Cable Accessories			
Applicable Cable Cross Sectional Area   mm <sup>2</sup>	Three Core Indoor Termination	Three Core Outdoor Termination	Three Core Cable Joint
25–50	8.7/15kVRSNY–3/1	8.7/15kVRSWY–3/1	8.7/15kVRSJY–3/1
70–120	8.7/15kVRSNY–3/2	8.7/15kVRSWY–3/2	8.7/15kVRSJY–3/2
150–240	8.7/15kVRSNY–3/3	8.7/15kVRSWY–3/3	8.7/15kVRSJY–3/3
300–400	8.7/15kVRSNY–3/4	8.7/15kVRSWY–3/4	8.7/15kVRSJY–3/4
500–630	8.7/15kVRSNY–3/5	8.7/15kVRSWY–3/5	/

26/35kV Heat Shrink Cable Accessories			
Applicable Cable Cross Sectional Area   mm <sup>2</sup>	Single Core Indoor Termination	Single Core Outdoor Termination	Single Core Joint
50–120	35kVRSNY–1/1	35kVRSWY–1/1	35kVRSJY–1/1
150–240	35kVRSNY–1/2	35kVRSWY–1/2	35kVRSJY–1/2
300–630	35kVRSNY–1/3	35kVRSWY–1/3	35kVRSJY–1/3

Applicable Cable Cross Sectional Area   mm <sup>2</sup>	Three Core Indoor Termination	Three Core Outdoor Termination	Three Core Cable Joint
50–95	35kVRSNY–3/1	35kVRSWY–3/1	35kVRSJY–3/1
120–185	35kVRSNY–3/2	35kVRSWY–3/2	35kVRSJY–3/2
240–400	35kVRSNY–3/3	35kVRSWY–3/3	35kVRSJY–3/3

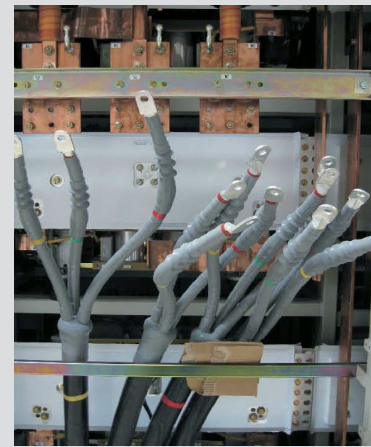


Electrical Parameter

0.6/1kV Heat Shrink Cable Accessory Test Item and Standard Requirement	
Insulation Resistance Test	Insulation Resistance: more than 103MΩ
Power Frequency Voltage Test	4kV,1min, no breakdown
Impulse Voltage Test	8kV, positive and negative polarity each for 10 times, no breakdown
Load Cycle Test	Heating for 5h and cooling down for 3h. The conductor temperature is 95℃ for 63 cycles when heating.
Negative polarity 5min DC Voltage Test(after load cycle)	15kV,5min, no breakdown
Insulation Resistance Test(after load cycle)	more than 103MΩ
Impulse Voltage Test(after load cycle)	8kV, positive and negative polarity each for 10 times, no breakdown

8.7/15kV, 26/35kV Heat Shrink Cable Accessory Test Item and Standard Requirement		
Test Item	Standard Requirement and Test Result	
	8.7/15kV	26/35kV
Power frequency Voltage Test	39kV, 5 min	117kV, 5min
	No Flashover, No Breakdown	
Partial Discharge Test	15 kV	45 kV
	No Detectable Discharge	
Impulse Voltage Test	95 kV	200 kV
	Positive and negative polarity each for 10 times, no flashover, no breakdown	
Heat Cycle Test	23 kV	65 kV
Power Frequency Voltage Test (after load cycle)	23 kV, 15min	45 kV, 15min
	Heating conductor at 95-100℃ in air and water for 30 cycles, no flashover, no breakdown	
Partial Discharge Test (after load cycle)	15kV	65 kV
	Heating conductor at 95-100℃ in air and water for 30 cycles, no detectable discharge	





Beijing Subway Line 4 Project



Fuzhou Railway Separable Connector Installation SiteG



Yunnan Cable Termination Installation Site



Guangzhou International Ship-dedicated 10kV Termination Installation Site



Xihan High-speed Tunnel Laying Site



Ruian 35kV Insulator Joint Installation Site in Wenzhou



35kV GIS Jiuquan Project



China Railway Electrochemical Bureau-Company Subway Line 4 Project



Coal-based Olefin Item Power Station Project of Shenhua Ningxia Coal Group



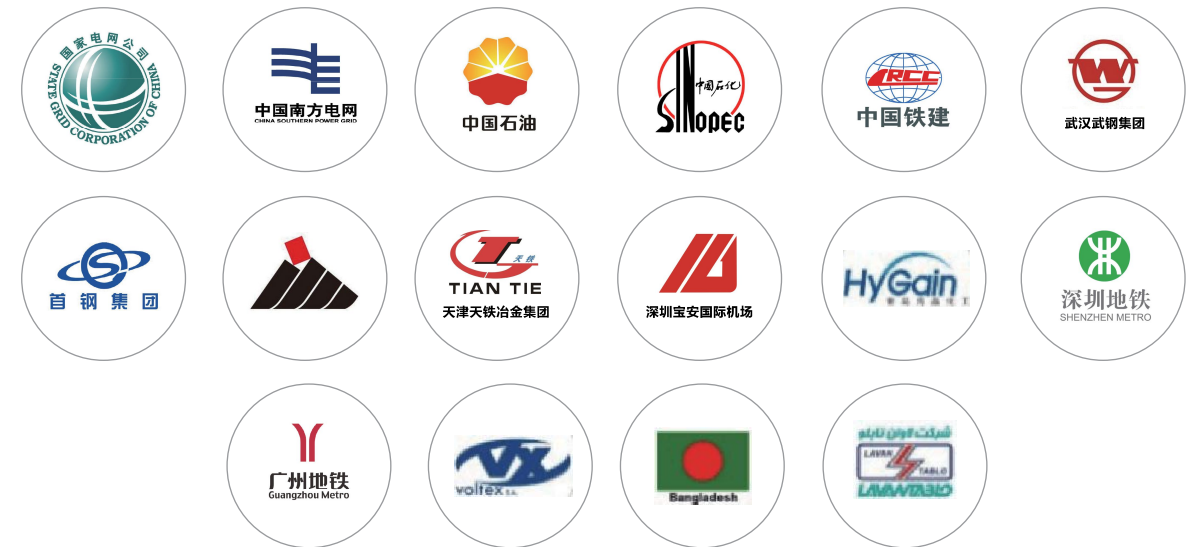
Shenzhen Metro Line 1 Extension Line--Baishizhou Power Supply 35kV Cold Shrink Accessory Construction Project



Separable Connectors are widely used in cable branch box and RMU.

## Part of Large Cooperation Partners of CYG Electric

Beijing Olympic Games, Guangzhou Asian Games and other large-scale international events all used CYG Electric' s power equipment.



CYG Electric' s products are widely used in projects in Russia, Bangladesh, India and other countries.



Bangladesh project

Signing Ceremony for 320kV DC Submarine Cable Accessories--Cooperatively researched by CYG Electric Co., Ltd and Chongqing Taishan Cable Co., Ltd.



Signing ceremony for DC submarine cable accessories