XIKAI

Insulator

Effectively insulate and support live parts

Key Of Power Electric Professional

- Composite Insulator
- Disconnecting Switch
- SF6 &Vacuum Circuit Breaker
- Fitting&Clamp(Hardware)
- Whole Set Cabinet
- Wall Bushing
- Loadbreak Switch
- Fuse Cutout
- Surge Arrester
- Cable Accessories

Constructing
World Bridge of Power System,
Providing Excellent Products From
XIYA

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Composite Insulator

• Application:

The composite insulator line of XIYA includes line insulators comprised of line rod,line post, traction line type and line spacer, station insu-lators comprised of outdoor solid core, indoor solid core type, post and tension hollow post and tension rod, insulating bushing comprised of oil impregnated paper condenser wall bushing and dry type condenser wall bushing. Moreover , shed booster for station insulation, feeding rod for locomotive and dry type polymer current transformer are also available.

The shed housing polymer for XIYA composite insulator is prepared using specific composition mixing developed by XIYA experts for years, contributing the highest grade of tracking and corrosion resistance in conformance with IEC standard, which shows no apparent degra-dation after artificial accelerate ageing for 1000h and natural exposure test for 15years.

The XIYA insulator are manufactured with unique one - piece injection molding technique, excluding possibility of interface feakdown. Amain frouble which may destroy the normal operation of insulators. The unique gluing connection of line rod insulator with metal getting keeps FRP rod intact, providing the highest reliability of insulator in respect of its mechanical performance with practically no degradation even in environment of high temperature or severe cold.

The composite insulator, characteristic of small size, light weight, high mechanical strength, shatter-free, easy handling, well shock-resistance,pollution-resistance and minor maintenance, grows fast as a new generation of inslator.

Insulator with specific parameters other than those listed hereafter is required by customer, it can be supplied by technical agreement. If any insulator of other application is needed, XIYA is willing to proceed cooperative development to meet utmost the customer demand.

• Normal service conditions

A) Ambient air temperature within the range of -40℃ to +50℃.
b) Altitude not exceeding 1500m.
c) Frequency of the A.C. Power supply not less than 48Hz and not exceeding 62Hz.
d) Maximum wind speed not exceeding 35m/s.
e) Earthquake intensity not exceeding 8 degrees.

• Characteristics:

- Small volume and light weight,easy to transport and install.
- The superior in performance and high intensity mechanical enhance reliability of power line.
- Extraordinary hydrophobic and resistance to contamination.
- Long-duration resistance aging and leakage tracking.

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Configuration and Anatomy Design of Composite Insulator

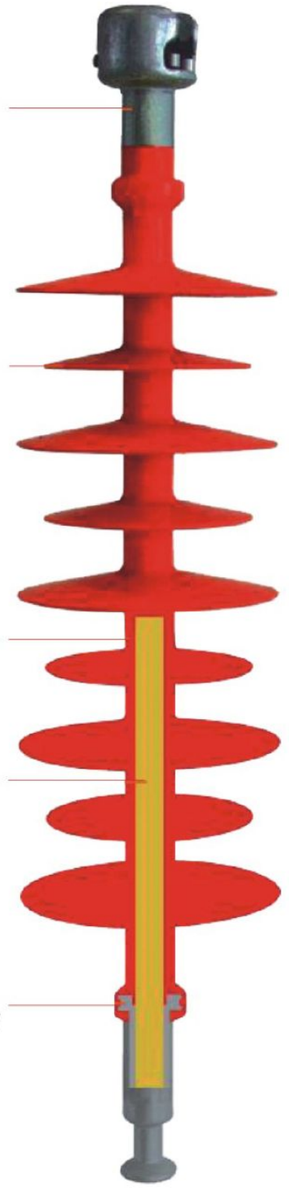
End fittings are steel or ductile iron. They are crimped directly to the rod by a special process originated by XIYA, and later adopted by many other producers. The crimp develops a high percentage of the rod's inherent tensile strength. It requires no intermovement of the parts to achieve hith strength, nor does it intro-duce potting compiounds or adhesives.

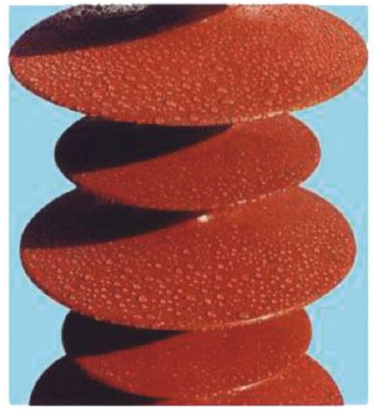
Weathersheds are high pressure injection molded by XIYA, from the proprietary com-pound. Housings manufactured with silicon alloy rubber exhinit long-term hydrophobicity, high mechnical strength, excellent corona resistance and low permeability to moisture.

Coating thickness: ⩾ 5mm, same thickness according to th IEC STANDARD.

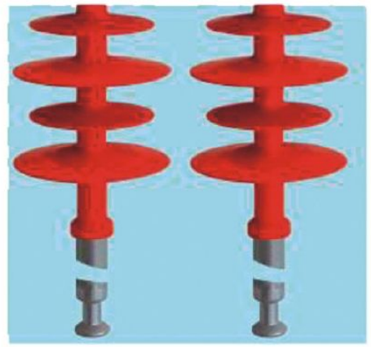
ROD: adopting the ECR high temperature acid-resistance rod(more than 50 percent glass fibers in cross section)

Labyrinthic configuration designed end fitting, and adopting silicon coating technical, has improved the hydrophobicity and anti-leakage characterics.

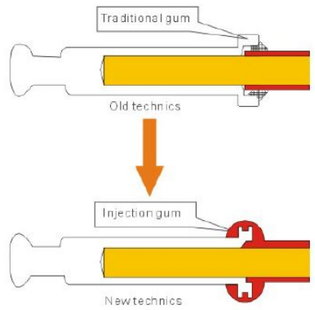




Enhancing methods of silicone rubber holds good hydrophobicity and anti-leakage current tracking capacity.



The stable inherent tensile strength and accurancy are because of special rod with advanced compac-tion and interlinkage techinque.



Outdoor High-voltage Composite Insulator

Composite Insulator

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Composite Insulator Manufacture Flow Chart

A Metal instrument cleanout & drying, wipe off mandril roughcast.

B Compaction and interlinkage

C Degrease and warm-up

D Holistic injection pressurize molding

E Check the appearance and amend

F Secondary vulcanization

G Test before package

H Set nameplate on the eligible products

I Pack and storaged

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Insulator Quality Guarantee

Any products made by XIYA are according to the ISO9001 management system to ensurance the quality and service.

Material Incoming Inspection Items

Core

a.Strong light test(every piece)
b.Porosity and warter diffusion test
c.Power frequency withstand voltage inspection
d.Tension force loading inspection

End Fitting

a.Zinc coating mass testing
b.Go gauge and not go testing

Silicon

a.Technical performance testing
b.Hardness
c.The comparative and the proof tracking characterics
d.Inspection data

Exfactory Inspection

a.Visual inspection
b.50% rated mechnical load tensile test
c.50% rated mechnical load bending test
d.50% rated mechnical load torsion test
e.Power frequency withstand voltage inspection

Sampling Inspection

a.Leakage current testing
b.The comparative and the proof tracking inspection
c.Lmpulse endurance test and lighting full-wave impulse test.
d.Mechnical tensile test(bending and torsion) broking test

Product design

Load tensile test

Load bending test Load torsion test

Power frequency withstand voltage inspection

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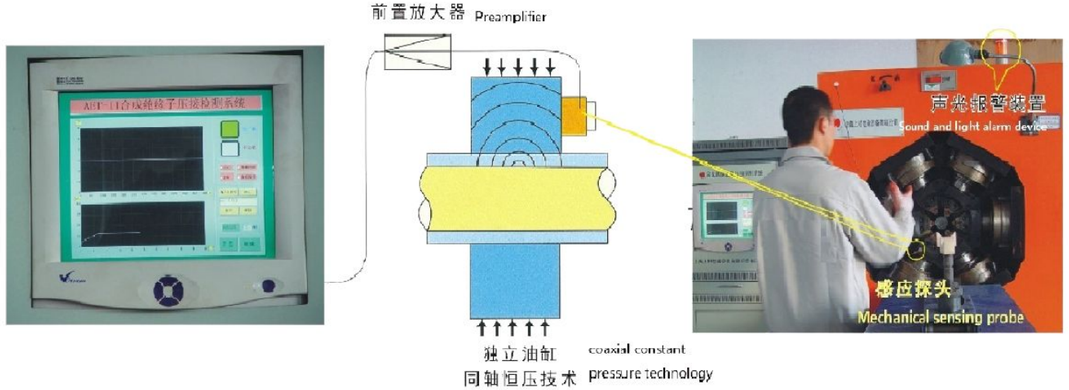
• The Compaction and Interlinkage Technique

The compaction and interlinkage of end fittings adopt advanced acoustic emission detection control system which is used for spaceflight and avigation test, it's sensitive to distinguish several fiberglas' break, and has alarm equipment to make sure the veracity. And it has advanced coaxial isobarically technique, can conquer the labiliza-tion of the compaction and interlinkage.



• Predominant umbrella cover characteristic

Excellent silicon directions for producing chemicals or metallurgical products, advanced one-off moulding tech and secondary vulcanization, make the product much more advantage than the conventional chinaware insulator.





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Outdoor High-voltage Composite Insulator

FPQ Series Pin Composite Insulator

• Model and meaning

F	□	□	□	-	□	/	□
Composite insulator	Usage XB:Suspension PQ:pin S:cross-arm CG-through wall bushings ZS:Post QE:electric railway	Structure feature W:big/small shed	Design sequence		Rated voltage (kN)		Rated mechanicalload (kN)

• Pin composite insulator

This product is applied to high voltage power line service. And have features of good gydrophobicily, anti-ageing, antileakage trace and electric erode proof, tensile strength and bending strength strong mechanical strength, shock resistance good quakeproof and brittle failure proof, light weight, easy to installation and the installation outline of top and base are the same size with porcelain-pin type, they can exchange to use each other.

12kV 12kV 15kV 24kV 35kV 35kV 35kV

• Main technical parameters of pin composite insulator

Type	Rated Voltage (kV)	Rated mechanical stretch load (kN)	Structure Height (mm)	Minimum arcing distance (mm)	Minimum nominal creepage distance (mm)	Diameter of shed D(mm)	Lightning impulse withstand voltage [peak] ≥ (kV)	Power frequency withstand voltage (wet) ≥ (kV)
FPQ-10/4T20	10	4	215	125	280	148/118	75	42
FPQ4-10/5T20	10	5	250	165	460	148/118	105	42
FPS-105/5	10	5	250	180	380	90	105	42
FPS-15/5	15	5	250	180	380	148/118	105	42
FPQ-24/8	24	8	305	255	715	148/118	150	75
FPQ-36/8	36	12	440	360	1100	148/118	185	95

Outdoor High-voltage Composite Insulator

FXBW4 Series Suspension Composite Insulator

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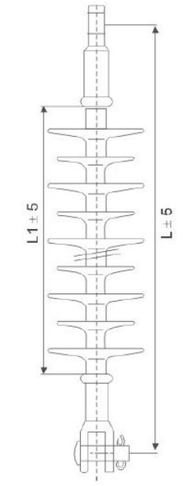
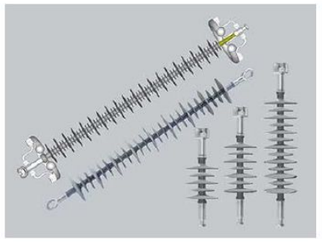
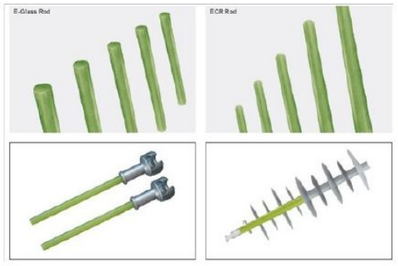
FXBW4 Series Suspension Composite Insulator

This product is special for badly polluted areas, high mecha nical tension load, long span and compact power line. And have features of light weight,small volume, unbreakable, anti-bend, high strength for anti-twist and strong explosion protection.



Type	Rated Voltage (kV)	Rated mechanical stretch load (kN)	Structure Height (mm)	Minimum arcing distance (mm)	Minimum nominal creepage distance (mm)	Lightning impulse withstand voltage [peak] ⩾ (kV)	Power frequency withstand voltage (wet) ⩾ (kV)
FXBW4-12	12-15	70/100/120	345	155	465	95	45
			355				
FXBW4-24	24-27	70/100/120	435	245	755	185	95
			445				
FXBW4-35	33-38	70/100/120	615	425	1300	230	105
			625				





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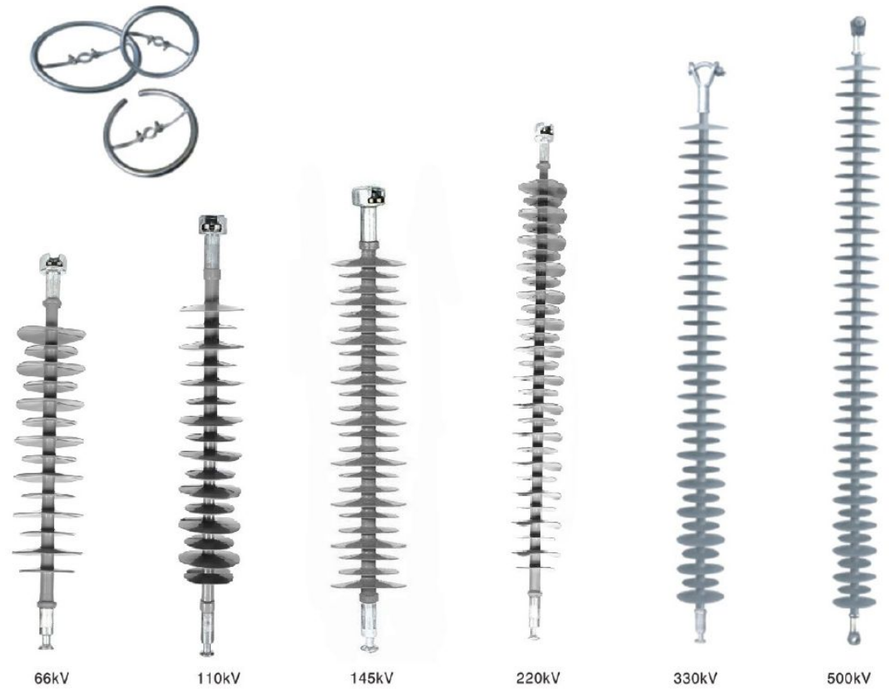
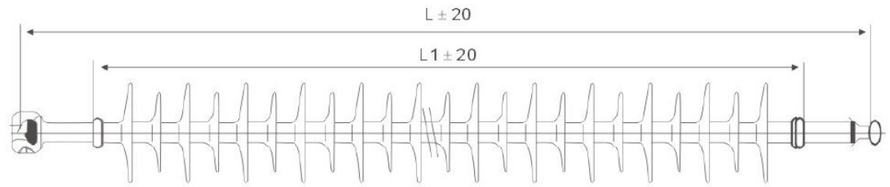
Outdoor High-voltage Composite Insulator

FXBW4 Series Suspension Composite Insulator

FXBW4 Series Suspension Composite Insulator





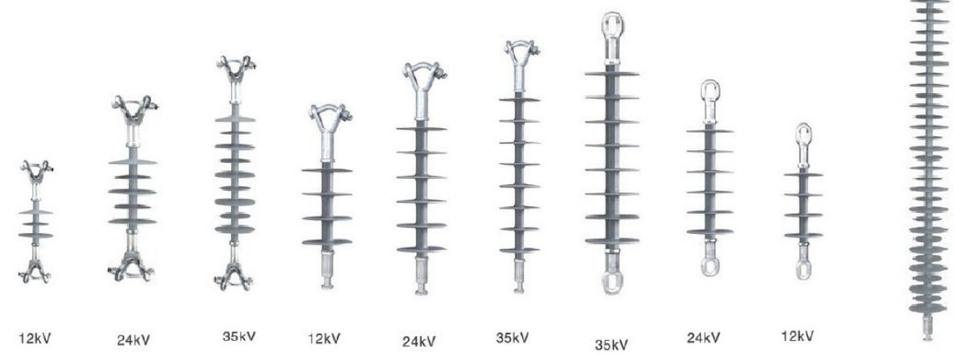
• Main technical

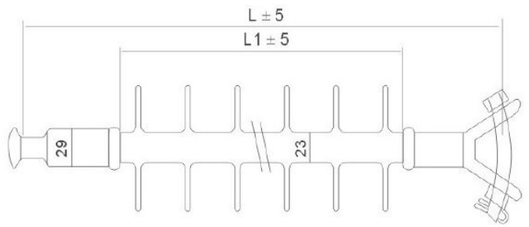
Type	Rated Voltage (kV)	Rated mechanical stretch load (kN)	Structure Height (mm)	Minimum arcing distance (mm)	Minimum nominal creepage distance (mm)	Lightning impulse withstand voltage [peak] ⩾ (kV)	Power frequency withstand voltage (wet) ⩾ (kV)
FXBW4-66	66-72	100/120/160	900	680	2200	410	185
FXBW4-110	110-132	100/120/160	1240	1012	3200	550	230
FXBW4-145	132-145	100/120/160	1660	1440	4600	600	260
FXBW4-220	220-240	120/160/210	2160	1930	6300	1000	395
FXBW4-330	210-350	120/160/210	2990	2600	8600	1425	570
FXBW4-500	500-550	120/160/210	4080	3730	12250	2250	740

Outdoor High-voltage Composite Insulator

FXB Series Suspension Composite Insulator

FXB Series Suspension Composite Insulator





• Main technical

Type	Rated Voltage (kV)	Rated mechanical stretch load (kN)	Structure Height (mm)	Minimum arcing distance (mm)	Minimum nominal creepage distance (mm)	Lightning impulse withstand voltage [peak] ⩾ (kV)	Power frequency withstand voltage (wet) ⩾ (kV)
FXB-12	12-15	70/100	380	169	440	95	45
			415				
FXB-24	24-28	70/100	475	216	690	185	95
			496				
FXB-35	33-38	70/100	563	353	900	230	105
			588				

Outdoor High-voltage Composite Insulator

FZSW Series Post Composite Insulator

FZSW Series Post Composite Insulator

This product is applied to high voltage power line service. And have features of good gydrophobicily, anti-ageing, antileakage trace and electric erode proof, tensile strength and bending strength strong mechanical strength, withgood perfor-mance in shock resistance good quakeproof & brittle-breakproof, light weight, easy to installation, and the installation outline of top and base are the same size with porcelainping type. They can exchange to use each other.

• Main technical parameters of post composite insulator

Type	Rated Voltage (kV)	Rated mechanical stretch load (kN)	Structure Height (mm)	Minimum arcing distance (mm)	Minimum nominal creepage distance (mm)	Diameter of shed D(mm)	Lightning impulse withstand voltage [peak] ⩾ (kV)	Power frequency withstand voltage (wet) ⩾ (kV)
FZSW-10/4	10	4	215	125	290	100/90	75	42
FZSW-15/5	15	5	245	170	600	150	125	50
FZSW-20/8	20	8	400	320	750	142	150	65
FZSW-35/6	35	6	450	360	946	148/118	185	95
FZSW-66/6	66	6	760	630	1886	160/130	410	185
FZSW-66/8	66	8	760	630	2010	220/190	410	185
FZSW-110/10	110	10	1220	1080	3530	220/190	500	230
FZSW-220/10	220	10	2440	2200	7060	220/190	1000	395

Outdoor High-voltage Composite Insulator

Composite Phase to Phase Spacer

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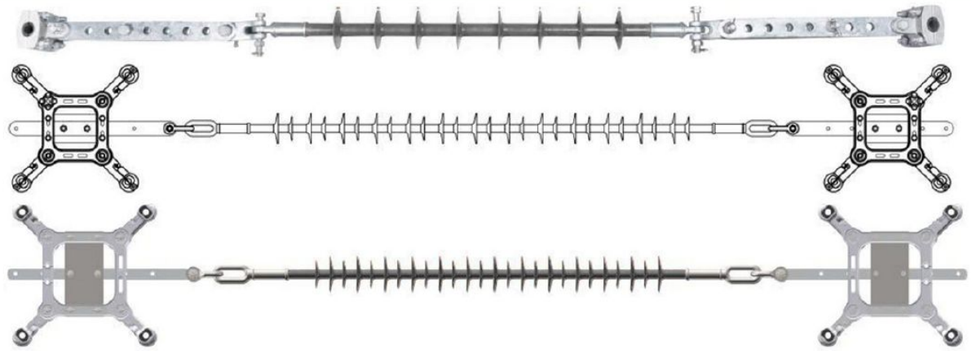

Description :

- Appliance:Keep the distance between conductors and reduce the irregular dancing of conductors;
- Color:Red,Brown,Gray or Customer' s requirement;
- Applicable Standard:IEC,GB,BS,ANSI,AS or Customer s requirement;
- Tube:Fiber glass core

Model No:

FXJ □ / □ / □ – H

- Section Length , mm
- SML , kN
- Voltage Level , kV
- Coupling size : B–Ball ; C– Clevis ; W–Universal joint ; h–Eve
- Composite phase to phase spacer

Specification:

Rated System Volttage (kN)	Type	Interphase Distance (mm)	Creepage Distance (mm)	Specified Mechanical Load(kN)	Lightning Impulse withstand Voltage(kV)	Power Frequency Withstand Voltage	
						Dry	Wet
35	FXJB/35/70 FXJC/35/70 FXJW/35/70	1000~3000	≥1 900	70	325	175	140
66	FXJB/66/70 FXJC/66/70 FXJW/66/70	2000~4000	≥3 300	70	450	256	230
110	FXJB/110/70 FXJC/110/70 FXJW/110/70	3000~5000	≥5 500	70	650	410	325
220	FXJB/220/100 FXJC/220/100 FXJW/220/100	4000~6000	≥11 000	100	1175	630	570
330	FXJB/330/100 FXJC/330/100 FXJW/330/100	5000~8000	≥15 000	100	1675	820	740
500	FXJB/500/100 FXJC/500/100 FXJW/500/100	6000~7000	≥23 000	100	2550	1375	1100

Order Information:
①Pollution level ②Voltage grade ③Mechanical load
④Insulation distance ⑤Creepage distance ⑥Section length ⑦Coupling type
Ps. Different design could be supplied as customer requirements

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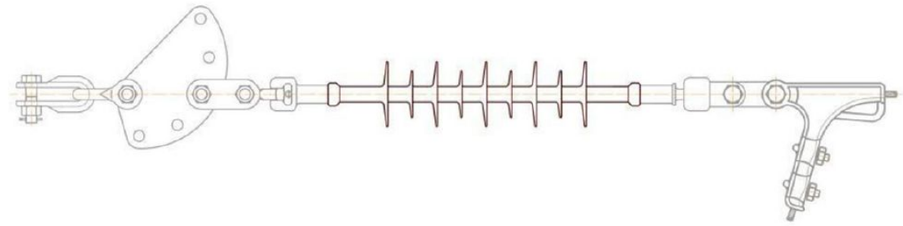
Outdoor High-voltage Composite Insulator

70kN Composite Insulator (Disc Suspension) Single Tension String



Type	Item	Qty	Material	Weight		Note
				Single	Total	
U-1085	Hanging clevis	1	35	0.6	0.6	
U-0770	Hanging clevis	1	Q235	0.5	0.5	
DB-0770-170	Adjustment plate		Q235	1.7	1.7	
P-0770	Parallel clevis	1	Q235	0.6	0.6	
QP-0750	Socket clevis	1	Q235	0.3	0.3	
WS-0770	Bowl clevis	1	KTH330-08 OR Q235	1	1	
PD-0770	Parallel clevis	1	Q235	0.5	0.5	
	Strain Clamps(Bolt Type)	1	ZL101A			Attached list

Attached list:

Conductor cross-section	Strain Clamps (Bolt Type)		Weight(kg) Total
	Spec	Weight (kg) Single	
95/20	NLL-2	1.8	7.0+G
120/20	NLL-2	1.8	7.0+G
150/25	NLL-3	4.1	9.3+G

Note:

If need install arcing horn,WS-0770 Change to WSJ-07145,QP-0750 change to QPJ-07100.

Outdoor High-voltage Composite Insulator

Double-conductor 70kN Composite (Disc Suspension) Insulator Straight Jumper String

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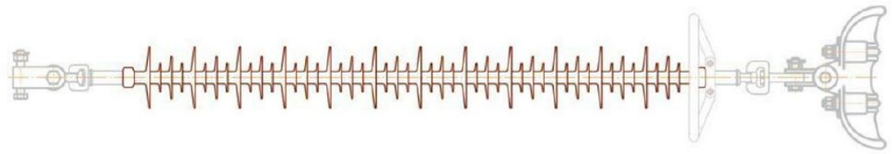

Type	Item	Qty	Material	Weight (kg)		Note
				Single	Total	
UB-0770	Hanging clevis	1	Q235	0.8	0.8	
QP-0750	Ball clevis	1	Q235	0.3	0.3	
W-0770	Socket clevis	1	Q235	0.8	0.8	
	Suspension clamps	1	ZL102			Attached list
PS-0790	Parallel clevis	1	Q235			
FZJ-15Y	Heavy hammer seat	1	Q235	0.6		
	Aluminum armored tape		L3			Attached list
FZC-15Y	Counter weight piece		Q235			

Attached list:

Conductor cross-section	Suspension clamps			Aluminum armored Type		Jumping Strings	
	Type	Weight (kg)	Height (mm)	Specification	Single Weight	Length (mm)	Weight (kg)
240/30	XTS-6028	5	77	1×10	0.16	267+L	7.1+G
300/40	XTS-6034	6	81	1×10	0.19	271+L	8.1+G
400/35	XTS-6034	6	81	1×10	0.21	271+L	8.2+G

1. The wind deflection of the jumper can be curbed by suspending the heavy hammer and matching the heavy pressure equalizing ring.

2. The total mass excluded PS hanging plate, heavy hammer seat & heavy hammer.

Outdoor High-voltage Composite Insulator

70kN Disc Suspension Composite Insulator Single I Type Suspension String

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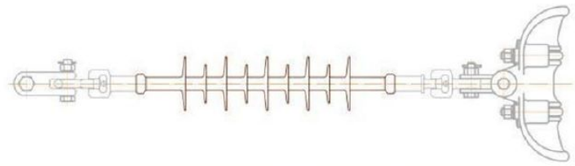

Type	Item	Qty	Material	Weight (kg)		Note
				Single	Total	
UB-0770	Hanging clevis	1	Q235	0.8	0.8	
QP-0750	Ball clevis	1	Q235	0.3	0.3	
W-0770	Socket clevis	1	Q235	0.8	0.8	
	Suspension clamps	1	ZL102			Attached list
PS-0790	Parallel clevis	1	Q235			
FZJ-15Y	Heavy hammer seat	1	Q235	0.6		
	Aluminum armored		L3			Attached list
FZC-15Y	Counter weight piece		Q235			

Attached list:

Conductor cross-section	Suspension clamps			Aluminum armored tape		Jumping strings	
	Type	Single weight(kg)	Height (mm)	Specification	Single Weight(kg)	Length (mm)	Weight (kg)
95/20	XG-4022	2.9	120	1×10	0.09	320+L	4.8+G
120/20	XG-4022	2.9	120	1×10	0.09	320+L	4.8+G
150/25	XG-4022	2.9	120	1×10	0.1	320+L	4.8+G
185/25	XG-4028	3.5	130	1×10	0.14	330+L	5.5+G
185/30	XG-4028	3.5	130	1×10	0.14	330+L	5.5+G
240/30	XG-6028	3.5	130	1×10	0.16	330+L	5.5+G
240/40	XG-6028	3.5	130	1×10	0.16	330+L	5.5+G
300/25	XG-6034	4	130	1×10	0.18	330+L	6.0+G
300/40	XG-6034	4	130	1×10	0.19	330+L	6.0+G

1. When using double-umbrella and triple-umbrella insulators, pay attention to checking the length of the bowl head hanging plate.

2. When using the arcing horn,change the ball clevis QP-0750 to QPJ-07100, Socket clevis change to WJ07135 And pay attention to arcing horn direction.

Outdoor High-voltage Composite Insulator

70kN Composite(Disc Suspension)Double Insulators Single Point Double Clips I Type Suspension String

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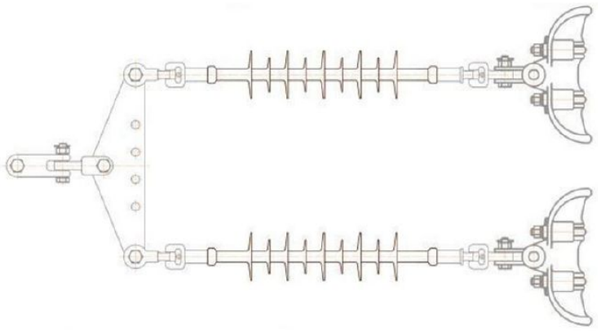

Type	Item	Qty	Material	Weight(kg)		Note
				Single	Total	
Z-12100	Hanging clevis	1	Q235	1.3	1.3	
ZBD-12-90	ZBD clevis	1	Q235	1.5	1.5	
L-12-70/400	Yoke plate	1	Q235	4.7	4.7	
QS-0770	Ball clevis	2	Q235	0.9	1.8	
W-0770	Socket clevis	2	KTH330-08或Q235	0.8	1.6	
	Suspension clamps	2	ZL102			Attached list
	Aluminum armour tape		L3			Attached list

Attached list:

Conductor cross-section	Suspension clamps			Aluminum armour tape		Jumping strings	
	Type	Single weight(kg)	Height(mm)	type	Single weight(kg)	Length (mm)	Weight(kg)
95/20	XG-4022	2.9	120	1×10	0.09	525+L	16.9+G
120/20	XG-4022	2.9	120	1×10	0.1	525+L	16.9+G
150/25	XG-4022	2.9	120	1×10	0.14	525+L	16.9+G
185/25	XG-4028	3.5	130	1×10	0.14	535+L	18.2+G
185/30	XG-4028	3.5	130	1×10	0.16	535+L	18.2+G
240/30	XG-6028	3.5	130	1×10	0.16	535+L	18.3+G
240/40	XG-6028	3.5	130	1×10	0.16	535+L	18.3+G
300/25	XG-6034	4	130	1×10	0.18	535+L	19.3+G
300/40	XG-6034	4	130	1×10	0.19	535+L	19.3+G

1. When using the double and triple-shed insulators, please check the length of the socket clevis.

2. When using the arcing horn, please replace the ball clevis QS-0775 with QPSJ-07125, replace the socket clevis with WJ-07135 or install it on the yoke plate, and notice the direction of the arcing horn.

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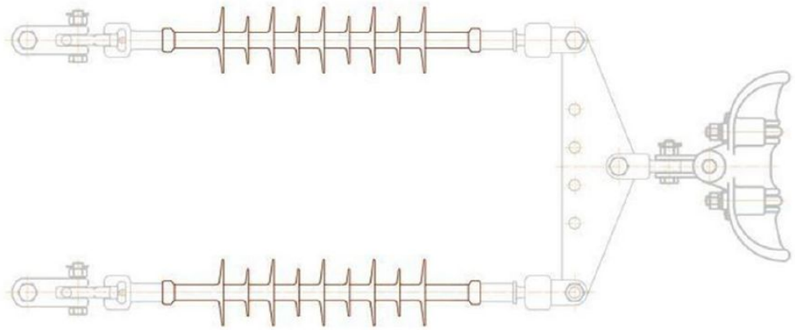
Outdoor High-voltage Composite Insulator

70kN Composite (Disc Suspension) Double Insulator Double Hanging Point Single Clip I Type Suspension String



	Item	Qty	Material	Weight (kg)		Note
				Single	Total	
Z-0780	Z clevis	2	Q235	0.7	1.4	
QP-0750	Ball clevis	2	Q235	0.3	0.6	
WS-0770	Socket clevis	2	KTH330-08 / Q235	1	2	
L-12-70/400	Yoke plate	1	Q235	4.7	4.7	
ZBD-07/12-80	ZBD clevis	1	ZG270-500 / Q235	1.3	1.3	
FZJ-15Y	Suspension clamps	1	ZL102			Attached list
	Aluminum armour tape		L3			Attached list

Attached list:

Conductor cross-section	Suspension clamps			Aluminum armour tape		Jumping strings	
	Type	Single weight(kg)	Height (mm)	Specification	Single weight(kg)	Length (mm)	Weight(kg)
95/20	XG-4022	2.9	120	1×10	0.09	470+L	13.0+G
120/20	XG-4022	2.9	120	1×10	0.09	470+L	13.0+G
150/25	XG-4022	2.9	120	1×10	0.1	470+L	13.0+G
185/25	XG-4028	3.5	130	1×10	0.14	480+L	13.7+G
185/30	XG-4028	3.5	130	1×10	0.14	480+L	13.7+G
240/30	XG-6028	3.5	130	1×10	0.16	480+L	13.7+G
240/40	XG-6028	3.5	130	1×10	0.16	480+L	13.7+G
300/25	XG-6034	4	130	1×10	0.18	480+L	14.2+G
300/40	XG-6034	4	130	1×10	0.19	480+L	14.2+G

1. When using the double and triple-shed insulators, check the length of the socket clevis.

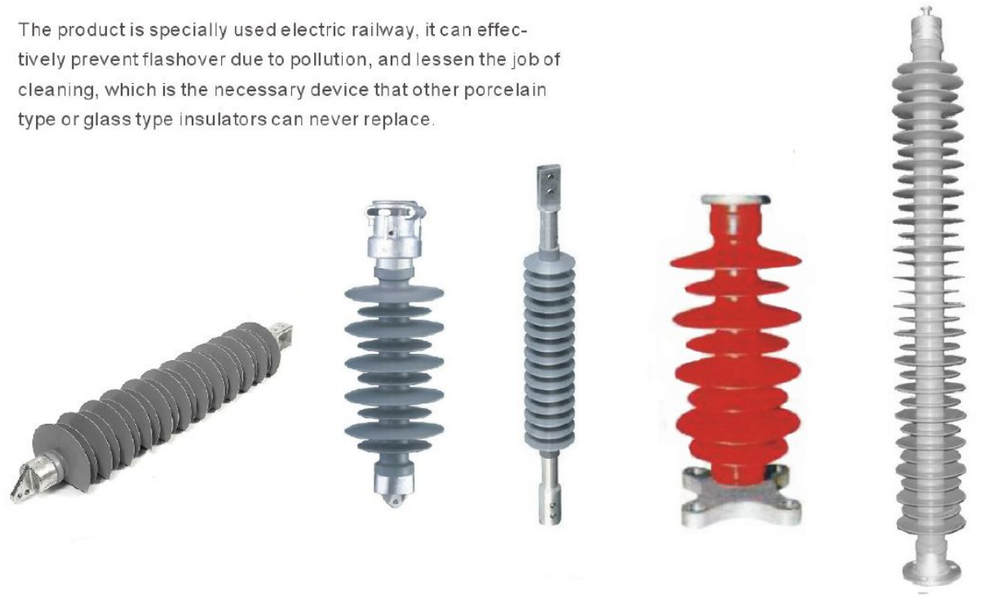
2. When using the arcing horn, replace the ball clevis QP-0750 with QPJ-07100 and change the socket clevis with WSJ-07145 or install it on the yoke plate, and notice the direction of the arcing horn.

Outdoor High-voltage Composite Insulator

FQX Series Composite Insulators for Electric Railway

FQX Series Composite Insulators for Electric Railway

The product is specially used electric railway, it can effectively prevent flashover due to pollution, and lessen the job of cleaning, which is the necessary device that other porcelain type or glass type insulators can never replace.



• Main technical parameters of composite insulators for electric railway

Type	Rated Voltage (kV)	Rated mechanical stretch load (kN)	Structure Height (mm)	Minimum nominal creepage distance (mm)	Lightning impulse withstand voltage [peak] ⩾ (kV)	Power frequency withstand voltage (wet) ⩾ (kV)	Structure of connected marks
FQX1-25	25	60	650	1400	270	130	aa
FQX2-25	25	20	840	1400	270	130	bb
FQX3-25※	25	20	930	1400	270	130	bb
FQX3-25※	25	20	760	1400	270	130	ac
FQX4-25	25	20	806	1400	270	130	gh
FQX5-25	25	60	645	1400	270	130	af
FQE3-25※	25	60	640	1400	270	130	ff
FQE4-25※	25	20	836	1400	270	130	gc
FQE5-25※	25	20	695	1400	270	130	de
FQE5-25	25	20	695	1400	270	130	gi

※This specification shall be conducted the tdst of bent pull & extension load under force of 4kN. When the bent distance is 100mm, thedistortion shall be less than 12mm.

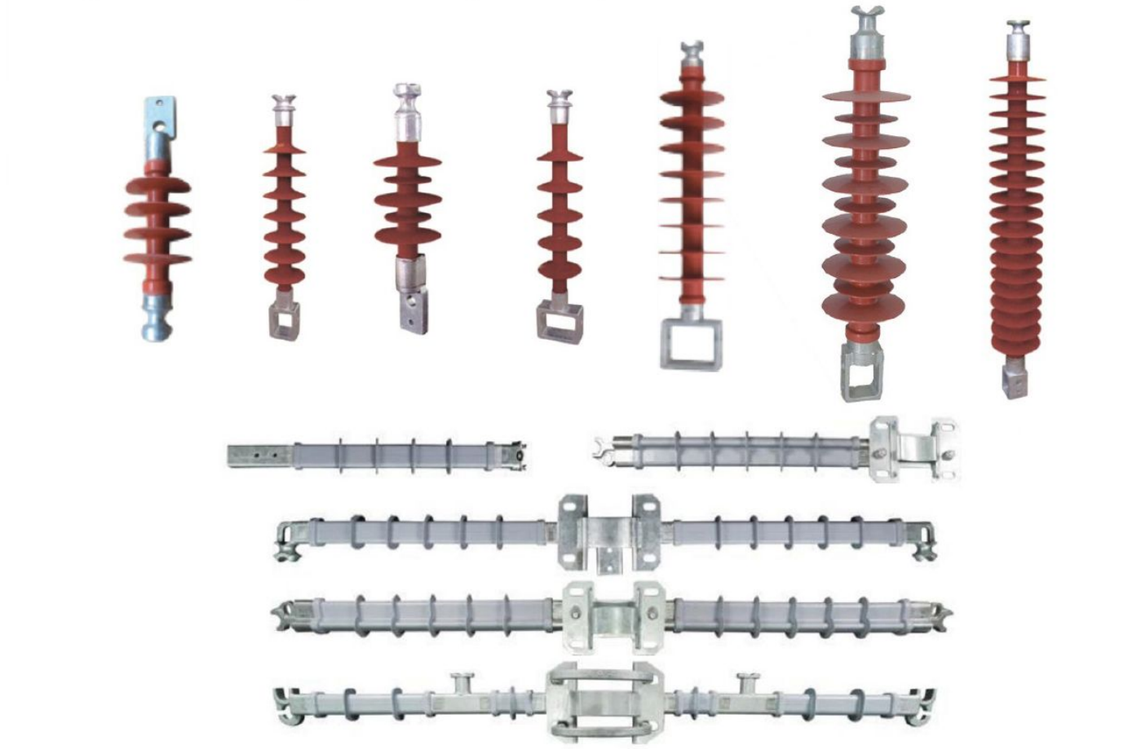
**According to the different requirement, the weight will be not same.

Outdoor High-voltage Composite Insulator

FS Series Cross-arm Composite Insulator

FS Series Cross-arm Composite Insulator

The products are suitable for the innovation of urban electrical nerwork where its streers are narrow. It can effectively reduce the necessary height of the pole/tower, due to high bent resistant capacity, there will complerely avoid the case that porcelain cross-arm happen to crack. More, it can be well pollution resistant.



• Main technical parameters of cross-arm composite insulator

Type	Central distance between wire channel and installation axis (mm)	Min.Creepage distance (mm)	Minimum nominal creepage distance (mm)	Installation diameter (mm)	Rated mechanical stretch load (kN)	Power frequency withstand voltage (wet) ⩾ (kV)	Lightning impulse withstand voltage [peak] ⩾ (kV)
FS-10/2.5	390	274	362	18	2.5	45	165
FS-10/2.5	400	280	410	18	5.0	50	185
FS-10/2.5	620	490	1060	22	5.0	100	265
FS-10/2.5	890	735	1815	23	6.0	185	410
FS-10/2.5	1240	1070	3180	24	10	230	550

Outdoor High-voltage Composite Insulator

FZSW Series Line Post Insulator

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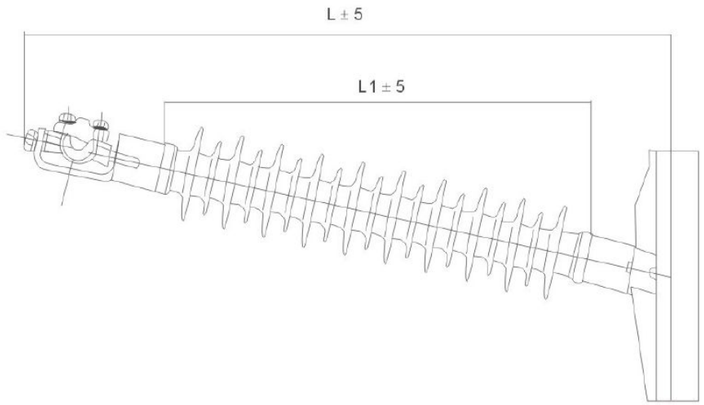
FZSW Series Line Post Insulator



Type	Rated Voltage (kV)	Rated mechanical stretch load (kN)	Structure Height (mm)	Minimum arcing distance (mm)	Minimum nominal creepage distance (mm)	Lightning impulse withstand voltage [peak] ⩾ (kV)	Power frequency withstand voltage (wet) ⩾ (kV)
FZSW-12	10-15	12.5	380	148	355	75	42
FZSW-24	24-27	8/12	485	300	850	150	65
FZSW-35	35-38	6/8/12	555	369	1050	185	95
FZSW-66	66-72	6/8/12	960	650	1800	410	185
FZSW-115	115	6/8/12	1115	848	2130	620	295
FZSW-132	110-140	6/8/12	1450	1210	3210	760	430

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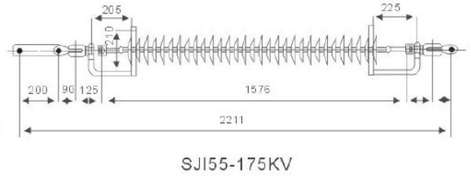
Outdoor High-voltage Composite Insulator

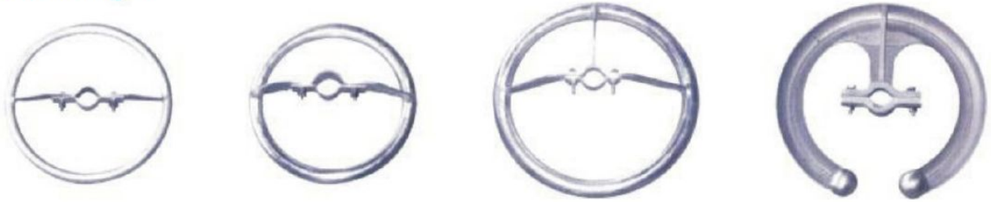
Other Series Insulators

Stay Insulator

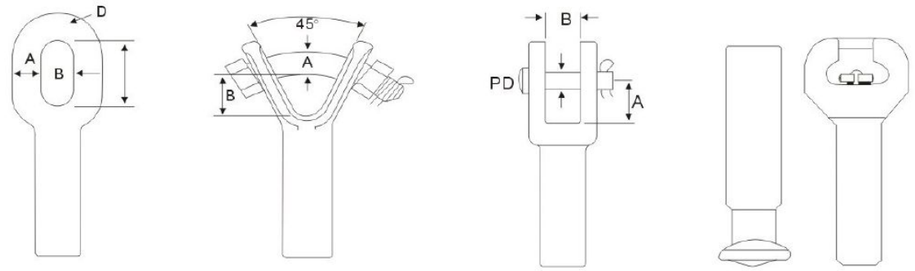


Rod Dia	Nominal system voltage	Creepage distance	Dry lightning impulse withstand voltage	Wet power frequency withstand voltage	Torsion	Tensile strength	Impulse flashover voltage	Flashover distance	Radio interference at 1KHz	Weight	Standard
17mm	24kV	420 mm	90kV	70 kV	0.5 kNm	4 kN	145 kV	190mm	< 1 uV at 10kV	0.65 kg	IEC61109/62217

Corona Rings



Most Common End Fittings



Chain Eye | Y-Clevis | Straight Clevis | Ball/Socket

SML	Dimensions mm(in.)			
	A	B	C	D
111kN (25K lbs.)	15.74 (0.62)	25.4 (1.00)	50.8 (2.00)	15.74 (0.62)
120kN	15.74 (0.62)	25.4 (1.00)	50.8 (2.00)	15.74 (0.62)
133kN (30K lbs.)	19.05 (0.75)	25.4 (1.00)	50.8 (2.00)	21.59 (0.85)
160kN (36K lbs.)	19.05 (0.75)	25.4 (1.00)	50.8 (2.00)	21.59 (0.85)
210kN	19.05 (0.75)	25.4 (1.00)	50.8 (2.00)	21.59 (0.85)
222kN (50K lbs.)	19.05 (0.75)	25.4 (1.00)	50.8 (2.00)	21.59 (0.85)

SML	Dimensions mm(in.)		
	A	B	Bolt Dia.
111kN (25K lbs.)	19.05 (0.75)	38.86 (1.53)	19 (0.75)
120kN	19.05 (0.75)	38.86 (1.53)	19 (0.75)
133kN (30K lbs.)	22.35 (0.88)	40.39 (1.59)	22 (0.88)
160kN (36K lbs.)	22.35 (0.88)	40.39 (1.59)	22 (0.88)
210kN	22.35 (0.88)	40.39 (1.59)	22 (0.88)
222kN (50K lbs.)	22.35 (0.88)	40.39 (1.59)	22 (0.88)

SML	Dimensions mm(in.)			
	Class	A	B	PD
111kN (25K lbs.)	ANSI 52-6	36 (1.41)	19 (0.75)	16 (0.62)
120kN	IEC 16C	36 (1.41)	19 (0.75)	16 (0.62)
133kN (30K lbs.)	ANSI 52-6	36 (1.41)	19 (0.75)	16 (0.62)
160kN (36K lbs.)	IEC 19L	46 (1.81)	21 (0.83)	19 (0.75)
210kN	IEC 19L	46 (1.81)	21 (0.83)	19 (0.75)
222kN (50K lbs.)	N/A			

SML	Class
111kN (25K lbs.)	ANSI 52-5
120kN	IEC 16mm
133kN (30K lbs.)	ANSI 52-5
160kN (36K lbs.)	IEC 20mm (ANSI 52-8)
210kN	IEC 20mm
222kN (50K lbs.)	ANSI 52-11

Outdoor High-voltage Composite Insulator

Fittings And Accessories

Key of Power
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Fittings for suspension insulator

Fittings for pin insulator

Fittings for post insulator

Fittings for crossarm insulator

Other Fittings

Technical/specification/weight data for fiberglass rod

Our company produces fiberglass rod with good mechanical performance in various specifications. It can be processed by turning,milling and threading. It is applicalbe for various insulators(such as suspension,post,cross-arm,railway insulators).
It is with light weight, high intensity,stable performance,excellent insulating property and applicable for voltage range 10KV~1000KV.

Outdoor High-voltage Composite Insulator
Fittings And Accessories
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Technical data

	Density g/cm³	Water absorption %	Tensile strength Mpa	Bending strength Mpa	Dye penetration min	Water Diffusion mA	Shearing strength along laminals Mpa	Volume resistivity Ω · m	DC breakdown voltage kV	Lightning impulse withstand voltage KV	Stress corrosion h	Torsional strength N/mm²	Thermal bending strength Mps/150℃
E-glass rod	≥2.1	≤0.05	≥1400	≥900	≥15	<0.5	≥50	$\geq 10^{10}$	≥50	≥95		≥90	≥300
ECR rod	≥2.1	≤0.05	≥1400	≥900	≥15	<0.5	≥50	$\geq 10^{10}$	≥50	≥95	≥100	≥90	≥300

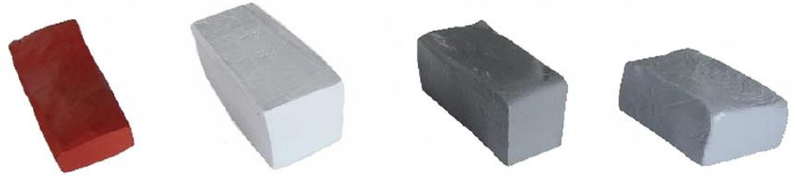
Specification&weight

Dia.(mm)	13	16	17	18	20	24	26	28	30	32	34	36	38
（kg/m）	0.29	0.44	0.5	0.56	0.69	0.99	1.16	1.34	1.54	1.75	1.98	2.22	2.47

Dia.(mm)	40	42	45	50	55	60	63.5	65	70	75	80	90	100
(kg/m)	2.74	3.02	3.47	4.28	5.18	6.16	6.9	7.23	8.39	9.63	10.95	13.9	17.12

Note: We can design and produce according to customer's specific requirements. Length can be customized.

Main technical data for silicone rubber



Our silicone rubber has good mechanical, electrical,temperature tolerance performance. It is applicable for suspension,post, cross-arm and railway insulators and so on. The silicone rubber has good performance of weather fastness, hydrophobicity, inoxidizability,high intensity,stability and insulation. It is applicable for voltage range 10KV~1000KV.

Data / Type	Hardness Short A	Tensile strength Mpa	Elongation %	Tear Strength kN/M	Volume resistivity Ω. cm	Alternating current dielectric strength kV/mm	Tracking& Erosion	Flammability resistance
XK-T1	65± 5	≥4.5	≥280	≥13	$\geq 7*10^{14}$	≥22	≥4.5	FV-0
XK-T2	65± 5	≥4.5	≥300	≥13	$\geq 7*10^{14}$	≥22	≥4.5	FV-0
XK-C1	65± 5	≥4.0	≥280	≥13	$\geq 5*10^{14}$	≥20	≥4.5	FV-0
XK-C2	65± 5	≥4.0	≥300	≥13	$\geq 5*10^{14}$	≥20	≥4.5	FV-0
XK-D1	65± 5	≥4.0	≥240	≥13	$\geq 3*10^{14}$	≥18	≥4.5	FV-0
XK-D2	65± 5	≥4.0	≥360	≥13	$\geq 3*10^{14}$	≥18	≥4.5	FV-0
XK-E1	65± 5	≥4.0	≥240	≥12	$\geq 1*10^{14}$	≥17	≥4.5	FV-0
XK-E2	65± 5	≥4.0	≥360	≥12	$\geq 1*10^{14}$	≥17	≥4.5	FV-0

Note : We can design and produce according to customer specific requirements.

XIKAI®

Outdoor High-voltage Composite Insulator

FCWW Series Through Wall Bushing

Key of Power
Electric Professional
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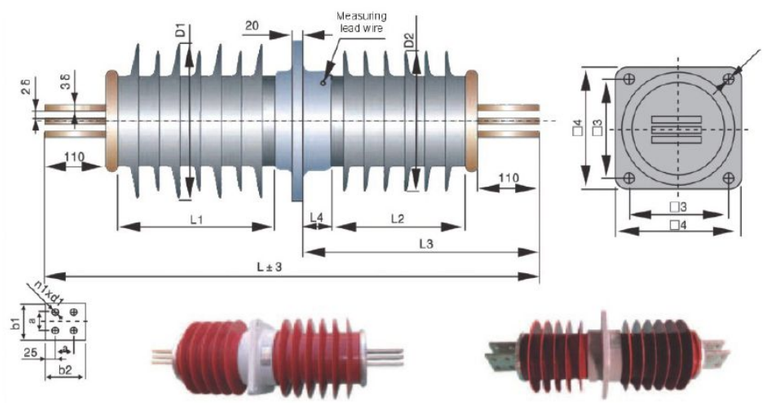
Through Wall Bushing

The product are one of new generation, inner in sulation applied to new material, outer insulation made of high-temperature resisitant sulfureted silicon rubber, to perform excellent pollution proof function and explosion proof. It is the right trend for the requirem ent for minimzing the size and for bidding oil by power indusstry ureau. It can well meet with the need of urban and suburban electric networke.



• Main performance

Technical standards	GB/T 4109-2008 IEC 60137 Ed.60		
Rated voltage	12kV	24kV	40.5kV
Rated current	4000-5000A		
1min power frequency dry voltage withstand	28kV	50kV	95kV
Full-wave impulse withstand voltage of lightning	75kV	125kV	200kV
Under 1.05 times of maximum phase voltage tan δ	⩽0.004		
Partial dischange under the rated voltage	⩽10pC		
Bending resistant test load	3150N	3150N	4000N
Minimum nominal creepage distance	31mm/kV		

• Main technical parameters

Main dimension (mm) / Type	Total length of casing	Outdoor			Indoor					Wiring terminal				Flange			Casing weight
		Insulation distance	Nominal creepage distance	Maximum umbrella diameter	Insulation distance	Length of indoor	Length of ground part	Maximum umbrella diameter	Nominal creepage distance	Hole number and diameter	Hole distance	Panel surface	Panel thickness	Outer diamater of flange plate	Center distance of installation hole	Hole number and diameter	
	L	L1	S	D1	L2	L3	L4	S	D2	n1xd1	a	b1xb1	δ	4	3	n1xn1	kg
FCWW-12/4000	645	160	405	230	125	305	50	305	230	4x18	50	100x110	10	250x250	200x200	4x18	30
FCWW-12/5000	645	160	405	230	125	305	50	305	230	4x18	50	100x110	12	250x250	200x200	4x18	33
FCWW-24/4000	865	270	820	260	235	415	50	610	230	4x18	50	100x110	10	250x250	200x200	4x18	43
FCWW-24/5000	865	270	820	260	235	415	50	610	230	4x18	50	100x110	12	250x250	200x200	4x18	48
FCWW-40.5/4000	1190	435	1310	268	395	575	50	1180	268	4x20	50	100x110	10	280x280	200x230	4x18	66
FCWW-40.5/5000	1190	435	1310	268	395	575	50	1180	268	4x20	50	100x110	12	280x280	200x230	4x18	73

Note:the overall dimension of product in this Table is recommended; all dimensions may be designed according to the users' requirements. Only one kind of CT length is listed in this Table CT length may be the users according to the requirements of the products.Relevant dimension may variation as requested.

XIKAI®

Outdoor High-voltage Composite Insulator

FCGW Series Through Wall Bushing

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Electric Professional
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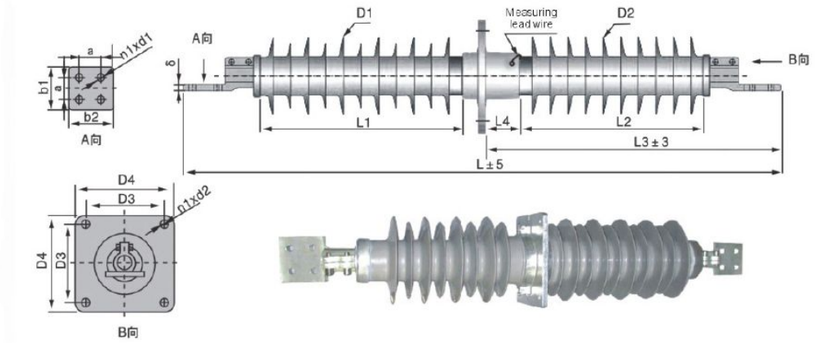
FCGW Through Wall Bushing



• Main performance

Technical standards	GB/T 4109-2008 IEC 60137 Ed.60	
Rated voltage	24kV	40.5kV
Rated current	630-315A	
1min power frequency dry voltage withstand	50kV	95kV
Full-wave impulse withstand voltage of lightning	125kV	200kV
Under 1.05 times of maximum phase voltage tan δ	⩽0.004	
Partial dischange under the rated voltage	⩽10pC	
Bending resistant test load	1000-3000N	1600-3150N
Minimum nominal creepage distance	31mm/kV	

• Main technical parameters

Main dimension (mm) / Type	Total length of casing	Outdoor			Indoor					Wiring terminal				Flange			Casing weight
		Insulation distance	Nominal creepage distance	Maximum umbrella diameter	Insulation distance	Length of indoor	Length of ground part	Maximum umbrella diameter	Nominal creepage distance	Hole number and diameter	Hole distance	Panel surface	Panel thickness	Outer diamater of flange plate	Center distance of installation hole	Hole number and diameter	
	L	L1	S	D1	L2	L3	L4	S	D2	n1xd1	a	b1xb1	δ	4	3	n1xn1	kg
FCGW-24/630-800	930	295	745	155	255	440	40	640	155	4x14	30	63x63	11	250x250	200x200	4x15	18
FCGW-24/1000	960	295	745	155	255	455	40	640	155	4x14	40	80x80	12	250x250	200x200	4x15	19
FCGW-24/1250	1000	295	745	155	255	475	40	640	155	4x18	40	100x100	13	250x250	200x200	4x15	20
FCGW-24/1600	1040	295	745	155	255	495	40	640	155	4x18	40	100x100	16	250x250	200x200	4x15	22
FCGW-24/2000	1040	295	745	155	255	495	40	640	155	4x18	50	100x100	16	250x250	200x200	4x15	29
FCGW-24/2500	1040	295	745	155	255	495	40	640	155	4x18	50	100x100	20	250x250	200x200	4x15	33
FCGW-24/3150	1130	295	745	155	255	540	40	640	155	4x18	60	125x125	20	250x250	200x200	4x15	35
FCGW-40.5/630-800	1240	450	1310	185	410	595	40	1055	155	4x14	30	63x63	11	250x250	200x200	4x15	22
FCGW-40.5/1000	1270	450	1310	185	410	610	40	1055	155	4x14	40	80x80	12	250x250	200x200	4x15	23
FCGW-40.5/1250	1310	450	1310	185	410	630	40	1055	155	4x18	50	100x100	13	250x250	200x200	4x15	24
FCGW-40.5/1600	1350	450	1310	185	410	650	40	1055	155	4x18	50	100x100	16	250x250	200x200	4x15	31
FCGW-40.5/2000	1350	450	1310	185	410	650	40	1055	155	4x18	50	100x100	16	250x250	200x200	4x15	32
FCGW-40.5/2500	1330	450	1310	185	400	640	40	1055	165	4x18	50	100x100	20	250x250	200x200	4x15	43
FCGW-40.5/3150	1420	450	1310	185	400	685	40	1055	165	4x18	60	125x125	20	250x250	200x200	4x15	46

Note: the overall dimension of product in this Table is recommended; all dimensions may be designed according to the users' requirements. Only one kind of CT length is listed in this Table CT length may be the users according to the requirements of the products.Relevant dimension may variation as requested.

Outdoor High-voltage Composite Insulator

Through Wall Bushing

Key of Power
Electric Professional
>

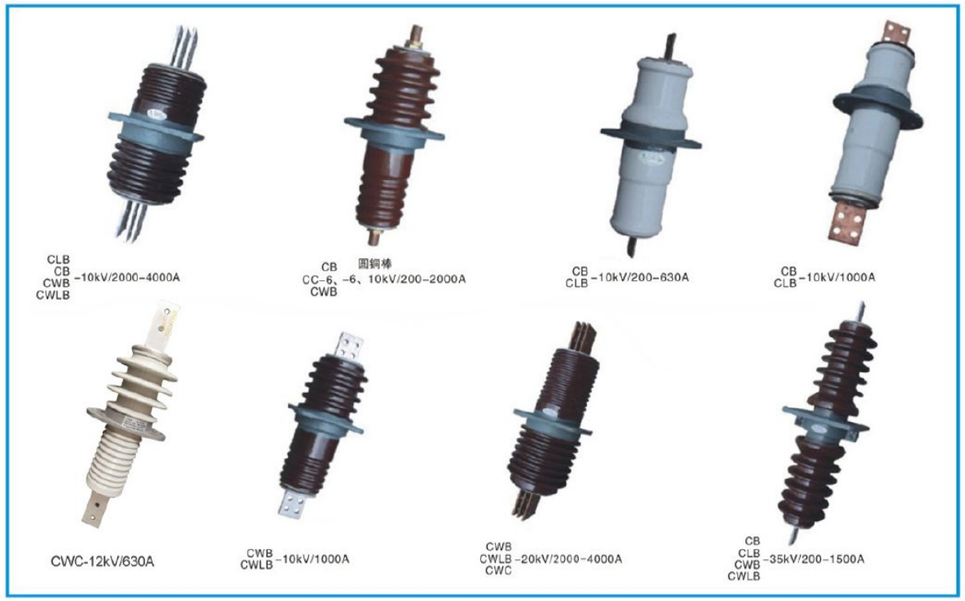
Overview

The wall bushing is suitable for power distribution devices and high-voltage electrical appliances in power plants with AC voltages up to 35kV, substations, and used as insulation and support for conductive parts passing through walls or other grounding objects.
The bushing is suitable for the ambient temperature of -40°C~40°C, and is not suitable for use under the conditions that can reduce the performance of the bushing and the condensation on the indoor surface of the bushing.

Model Meaning

CL-Indoor aluminum conductor wall bushing
CLB-Indoor aluminum conductor wall bushing (reinforced)
C-Indoor copper conductor wall bushing
CWL-Outdoor-indoor cross-conductor wall bushing
CWLB-Outdoor - outdoor aluminum conductor wall bushing (reinforced)
CW-Outdoor-indoor copper conductor wall bushing
CWWL-Outdoor-Indoor Pollution-Resistant Staggered Conductor Wall Bushing
CWW-Outdoor-Indoor Pollution Resistant Copper Conductor Wall Bushing
CM-Indoor busbar wall bushing
CMWW-Outdoor-Indoor Pollution Resistant Copper Conductor Wall Bushing

Rated voltage	The power frequency test voltage ≥ （kV）			Lightning impulse withstand voltageda≥（KV）
	Dry or wet tolerance	Breakdown	Visible corona	
6	23	58	–	60
10	30(37.5)	75	–	75(93.8)
20	50	120	14.8	125
35	80(100)	176	25.8(32.2)	185(231)



Key of Power
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Outdoor High-voltage Composite Insulator

Main technicaln data for pin post insulator

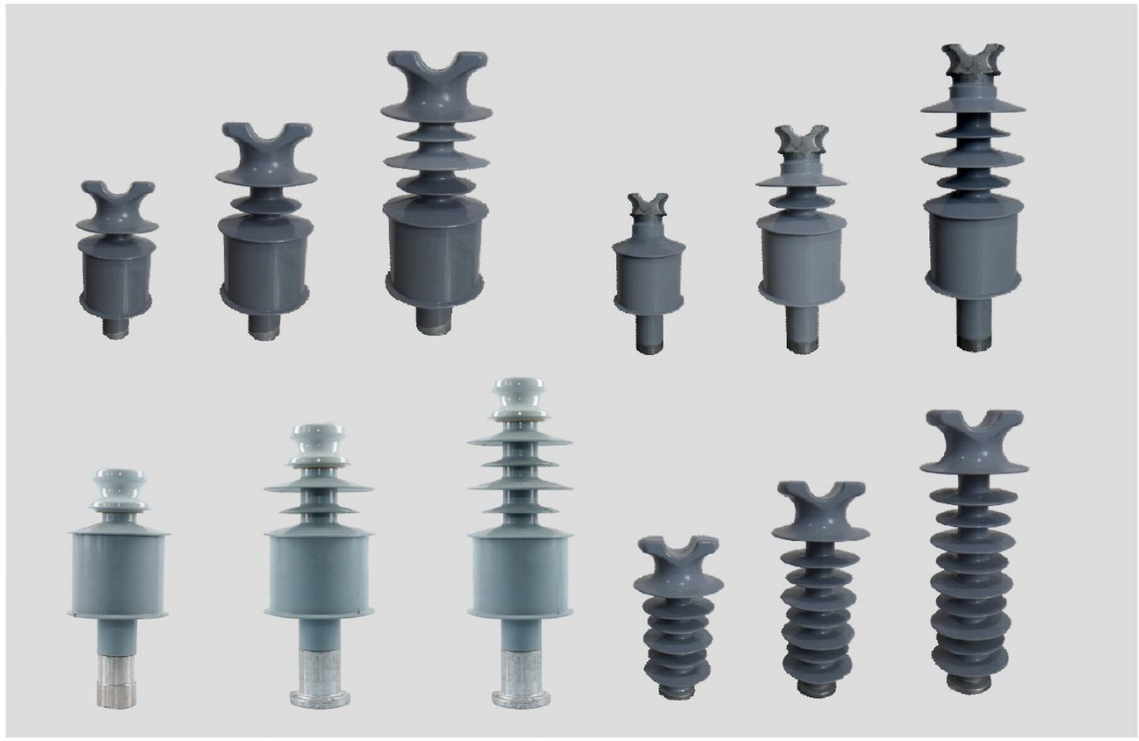

Figure No	Type	Rated Voltage (kV)	Specified Mechanical Bending Load (kN)	Section Length (mm)	Min arcing distance (mm)	Min creepage distance (mm)	Lightning withstand voltage (kV)	Wet power frequency voltage (kV)
1	FPQ-15/8	15	8	260	191	590	140	45
2	FPQ-25/8	25	8	321	251	770	150	70
3	FPQ-35/8	35	8	387	317	1030	210	95
4	FPQ-15/12.5	15	12.5	259	188	590	140	45
5	FPQ-25/12.5	25	12.5	321	251	770	150	70
6	FPQ-35/12.5	35	12.5	387	317	1030	210	95

Note :
We can design and make products according to custemer's specific requirements.

Outdoor High-voltage Composite Insulator

Main technical data for composite bushing insulator

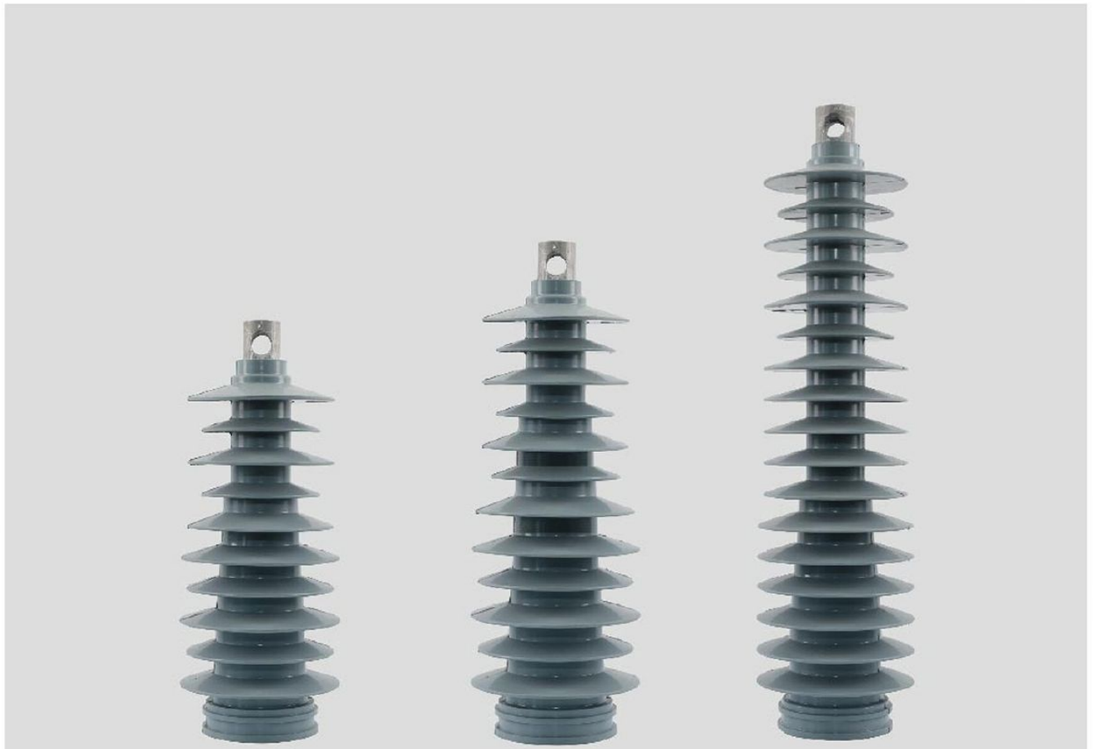

Figure No	Type	Rated Voltage (kV)	Section Length (mm)	Min arcing distance (mm)	Min creepage distance (mm)	Lightning withstand voltage (kV)	Wet power frequency voltage (kV)
1	PGS-15	15	324	316	772	150	60
2	PGS-24	24	374	344	915	150	60
3	JSD-36	36	499	490	1354	170	70

Note :
We can design and make products according to custemer's specific requirements.

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Outdoor High-voltage Composite Insulator

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Others Type

57-1 D

57-2 D

FZSW-15/12.5

FZSW-15/12.5P

FZSW-25/10

FZSW-35/8

Outdoor High-voltage Composite Insulator

FCGW Series Through Wall Bushing

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55-3

55-5

55-4H

56-1

55-7

55-5-VISE

55-6-VISE

15kv cablespacer

15KV - ARM

- **Main technical parameters**

Figure No	Type	Rated Voltage (kV)	Specified Mechanical Bending Load (kN)	Section Length (mm)	Dry Arcing Distance (mm)	Min Creepage Distance (mm)	Lightning Withstand Voltage (kV)	Wet Power Frequency Voltage (kV)
1	55-3-C-25.4	15	11	114	150	263	+109 -105	45
2	55-4-F-25.4	15	13.4	135	170	363	+122 -202	51
3	55-5-F-25.4-01	25	13.4	151	177	393	+144 -179	51
4	55-5-C-25.4-02	25	13.4	151	200	385	+137 -197	58
5	56-1-J-35	25	13.4	151	197	368	+143 -190	57
6	55-6-J-25.4	35	13.4	191	240	545	+175 -240	70
7	55-7-F-35	25	13.4	191	240	545	+175 -240	70

Note :
We can design and make products according to custemer's specific requirements.

Porcelain Composite Insulator

ANSI Porcelain Disc Suspension Insulators

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ANSI Porcelain Disc Suspension Insulators

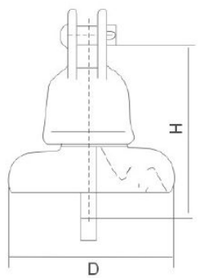


Fig1

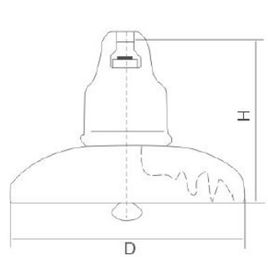


Fig2

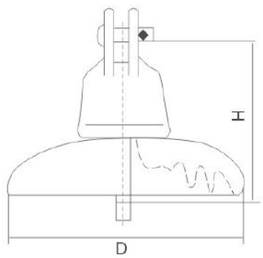


Fig3

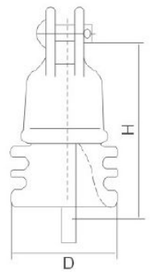
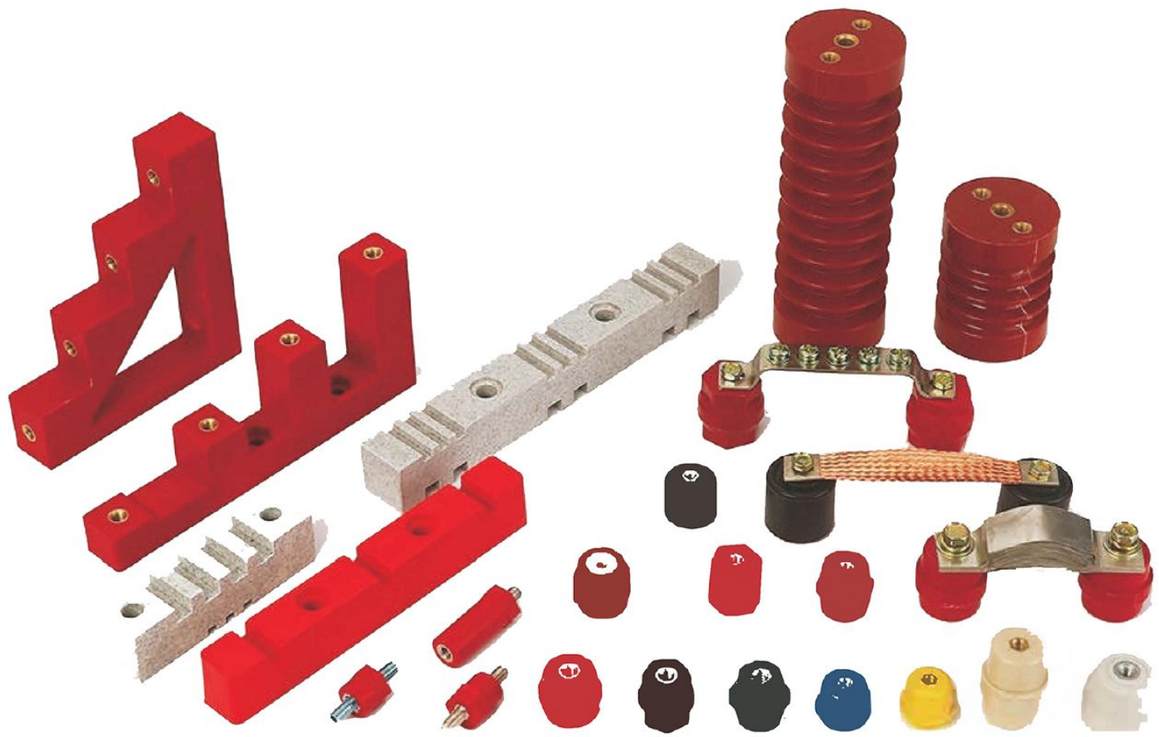


Fig4

- **Main technical parameters of ANSI porcelain disc suspension insulators**

Class ANSI	Fig	Main Dimension in (mm)		Leakage Distance in (mm)	Combined M&E Strength b (KN)	Mechanical Impact Strength in-1b(H-m)	Time Load Test Value 1b (KN)	Average Flashover Voltage				Power Frequency Puncture Voltage KV	Redio Influence Voltage	
								Power Frequency		Critical Impulse			Test Voltage To Ground KV	Max Riv At 1 Mhz μ V
		D (max)	H					Dry kV	Wet kV	Positive kV	Negative kV			
55-1	1	6 1/2 (165)	5 1/2 (141)	7 (178)	10000 (44)	45 (5.0)	6000 (27)	60	30	100	100	80	7.5	50
55-2	1	8 (203)	5 3/4 (146)	8 1/2 (210)	15000 (67)	50 (5.5)	10000 (44)	65	35	115	115	90	7.5	50
55-3	2	10 3/4 (273)	5 3/4 (146)	11 1/2 (292)	15000 (67)	55 (6.0)	10000 (44)	80	50	125	130	110	10	50
55-4	3	10 3/4 (273)	5 3/4 (146)	11 1/2 (292)	15000 (67)	55 (6.0)	10000 (44)	80	50	125	130	110	10	50
55-5	2	10 3/4 (273)	5 3/4 (146)	11 (279)	25000 (111)	60 (7.0)	15000 (67)	80	50	125	130	110	10	50
55-6	3	10 3/4 (273)	5 3/4 (146)	11 (279)	25000 (111)	60 (7.0)	15000 (67)	80	50	125	130	110	10	50
55-9	4	4 1/2 (114)	6 1/4 (160)	6 3/4 (171)	10000 (44)	45 (5.0)	60000 (27)	60	30	100	90	80	7.5	50



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Outdoor High-voltage Composite Insulator

XIKAI®

SM series

- SM - □□
  - 高度(Height)
  - 系列(Series)
- 工作温度：-40~+140
  Operating Temperature: -40~ +140
- 嵌件：黄铜、铁、铝
  Insert: Brass. Steel with Zn coating
- 材料：不饱和聚酯树脂玻璃纤维增强模压塑料（BMC）（SMC），环保材料及UL认证材料
  Matenial: BMC (Bough Moulding Compound)
  SMC(Sheet Moulding Compound)
- 颜色、嵌件、材料性能、螺纹可依客户需求定制
  Colour, Insert,material In capability accordance screw with customer needs

Outdoor High-voltage Composite Insulator

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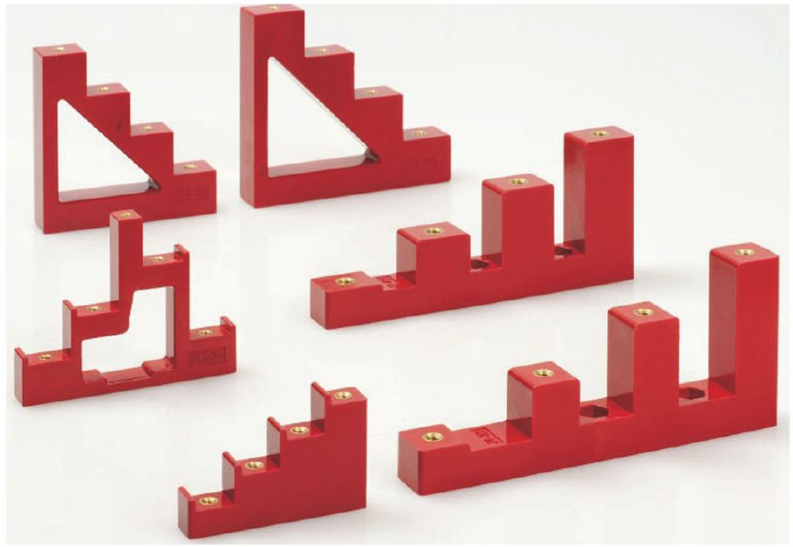
CT series



CT - □ □□

- 排宽度(Width)
- 相数(Phase number)
- 系列(Series)

- 工作温度：-40~+140
  Operating Temperature: -40 ~ +140
- 嵌件：黄铜、铁、铝
  Insert: Brass. Steel with Zn coating
- 材料：不饱和聚酯树脂玻璃纤维增强模压塑料（BMC）（SMC），环保材料及UL认证材料
  Matenial: BMC (Bough Moulding Compound)
  SMC(Sheet Moulding Compound)
- 颜色、嵌件、材料性能可依客户需求定制
  Colour, Insert,material In capability accordance screw with customer needs

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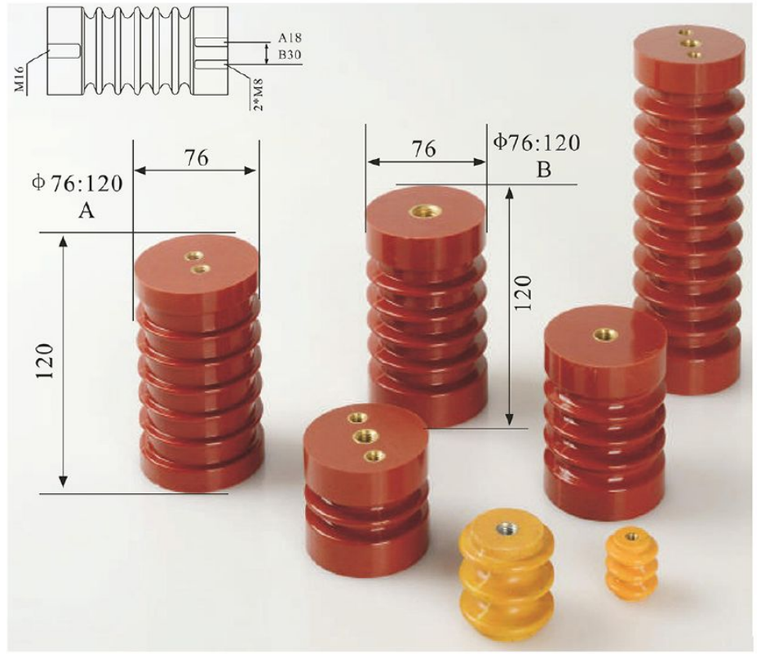
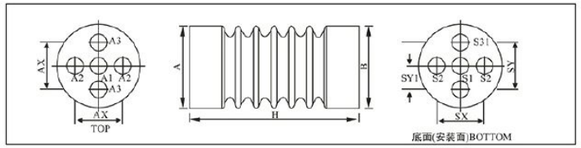
Outdoor High-voltage Composite Insulator

EL series





1. Material:Bulk molding compound,unsaturaced polyester
2. Nut inserts:Brass,various specifications are available.
3. Test specifications:JIS C3801 and JIS C3851
4. Color:Dark brown or dark red.
5. Dimension and characteristics

Part No.			76:120	EL-24	EL-15	EL-12	EL-6M	EL-3M
End diameters (A/B).mm			76	70	70	58	70	70
Height(H).mm			120	210	142	130	90	60
Surface leakage distance, mm			300	356	210	172	125	88
Rated voltage.kV			10	24	15	12	7.2	3.6
Low frequency dielectric strenght .kV			55	60	50	36	22	16
Impule voltage resistance, kV			110	125	110	95	75	60
Persistent begding strength. I min, kg			400	300	400	300	400	400
Tensile strength, kg			＞1500	>1500	＞1500	>2000	>1200	>1200
Torque stength.kg-m			＞25	>25	>25	>25	>25	>25
Inseris arrangement	Top	A1	M16	M10/M12	M8/M10	M10	M10	M10
		A2	-/M8	-	-	M8	M8	M8
		A3	-	M6/M8	M6/M8	-	-	-
		AX	-	-	-	36	40	40
		AY	-	36/40	36/40	-	-	-
	BOTTOM	SI	-	M10/MI2/M16	MI0/M12/MI6	M10/M16	M10	M10
		S2	-	-	-	-	-	-
		S3	-	-	-	-	-	-
		S31	-	-	-	-	-	-
		SX	-	-	-	-	-	-
		SY	-	-	-	-	-	-
		SYI	-	-	-	-	-	-

Outdoor High-voltage Composite Insulator

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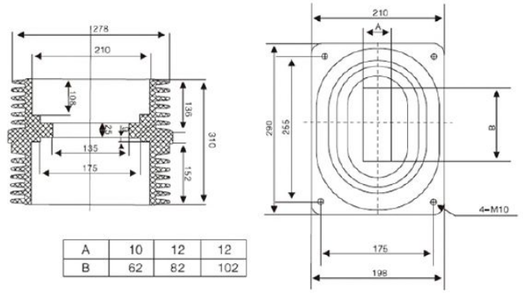
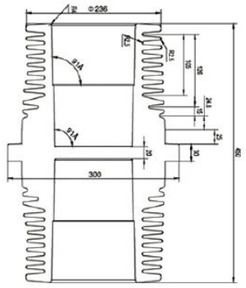
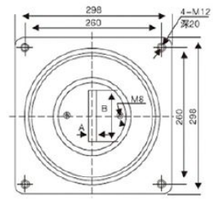
AYTG3-24KV175X255X310



A	10	12	12
B	62	82	102

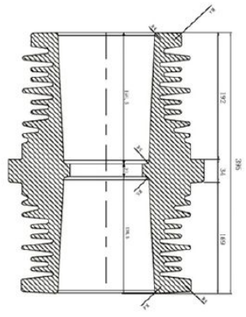
AYTG3-40.5KV220X220X450

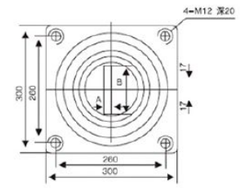




The number of copper rows that can be worn	Single row	Single row / double row	Single row/ double row
A	20	20	20
B	70	90	110

AYTG3-40.5KV260X260X395





The number of copper rows that can be worn	Single row	Single row / double row	Single row/ double row
A	20	20	20
B	70	90	110

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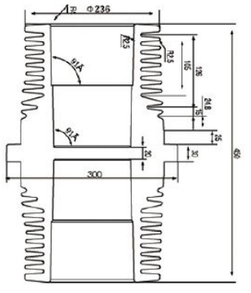
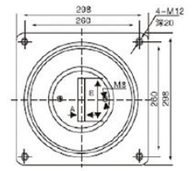
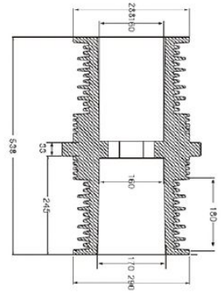
AYTG3-40.5KV260X260X450

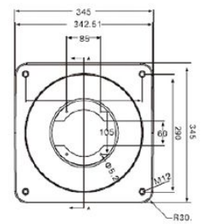




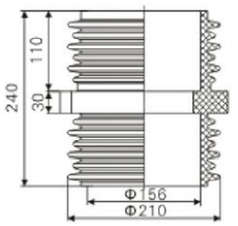
The number of copper rows that can be worn	Single row	Single row / double row	Single row/ double row
A	20	20	20
B	70	90	110

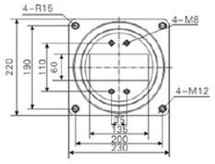
AYTG3-40.5KV290X290X538





AYTG3-12/220×230型三排配卡版套管





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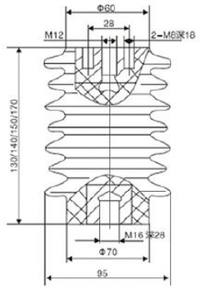
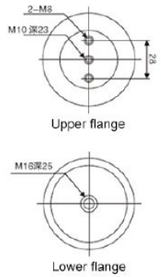
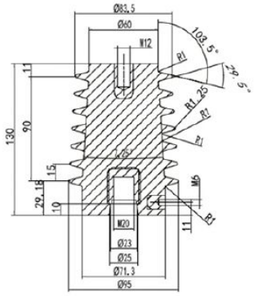
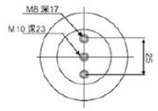
AYCG5-12KV95X130~140~145~150~170



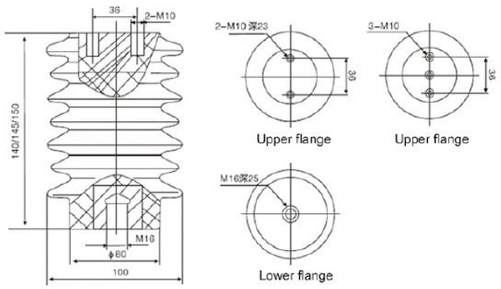


AYCG5-12KV100X125~140





AYCG5-12KV100X140~145~150



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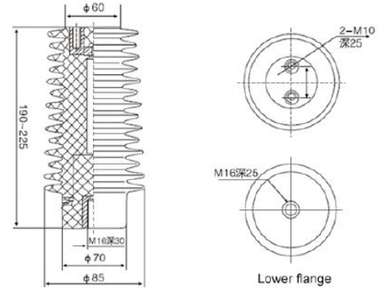
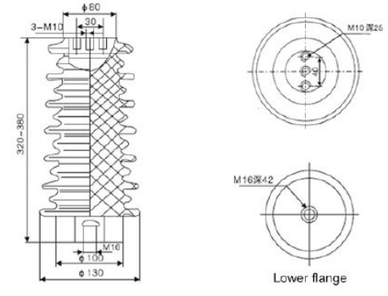
Outdoor High-voltage Composite Insulator

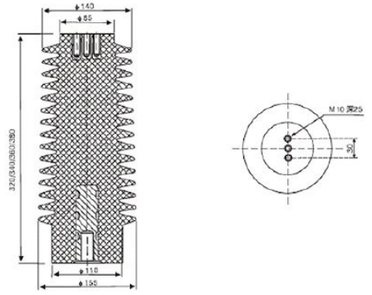
AYCG5-24KV85X190~210~225



AYCG5-35KV130X320~340~360~380



AYCG5-40.5KV155×320~340~360~380



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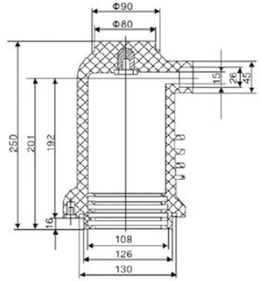
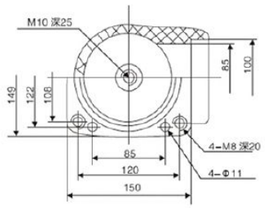
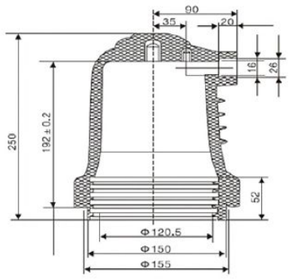
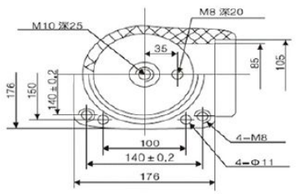
AY3-12KV150 630~1250A



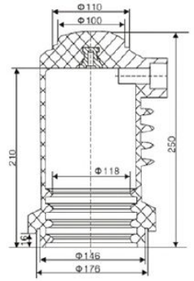


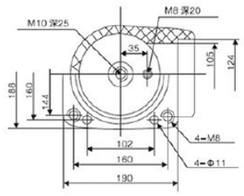
AY3-12KV180 1250A





AY3-12KV190 1600A





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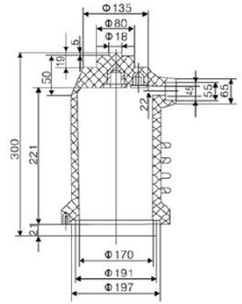
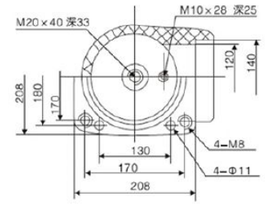
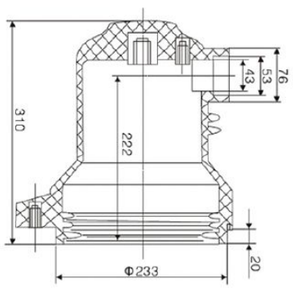
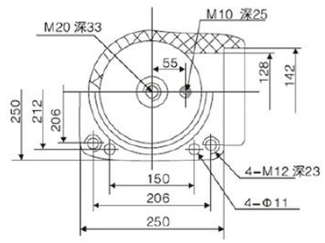
AY3-12KV208 1600~2000A



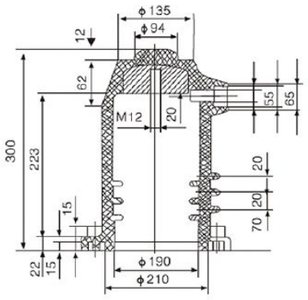


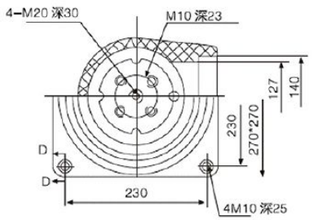
AY3-12KV250 2500~3150A





AY3-12KV270 4000A





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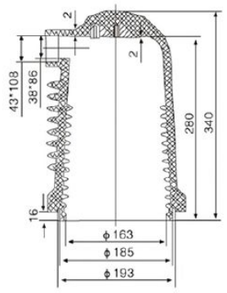
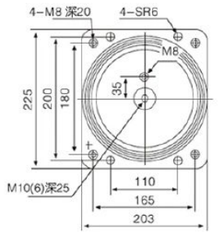
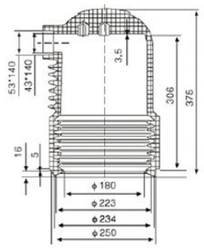
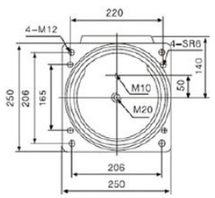
AH3-24KV225 630~1600A



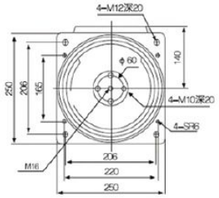


AH3-24KV250 2000~4000A





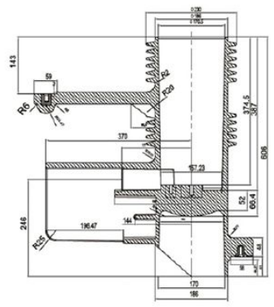
2000~2500A

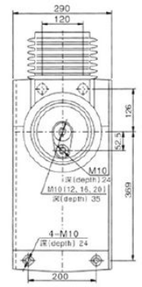


3150~4000A

(The center hole can be selected as M12, M16, M20, M24) Depth: 50

AH3-40.5KV ABB type





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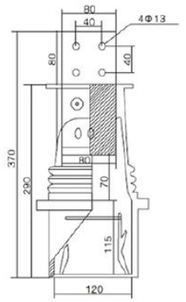
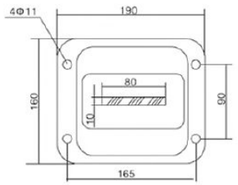
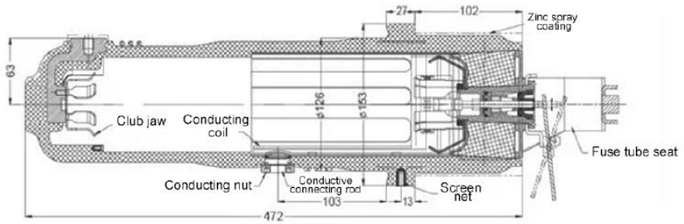
AJYN2-12KV 630A-1250A



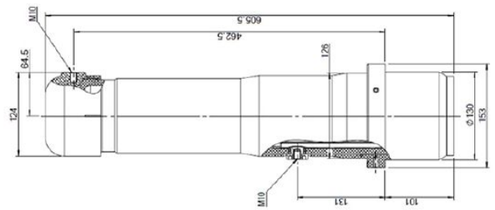


JYN2-10
630-1250A

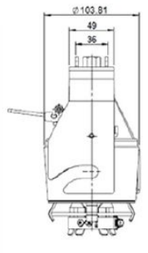
12kV Fuse cartridge

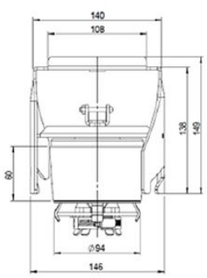


24kV Fuse cartridge



12/24 kV Fuse cartridge

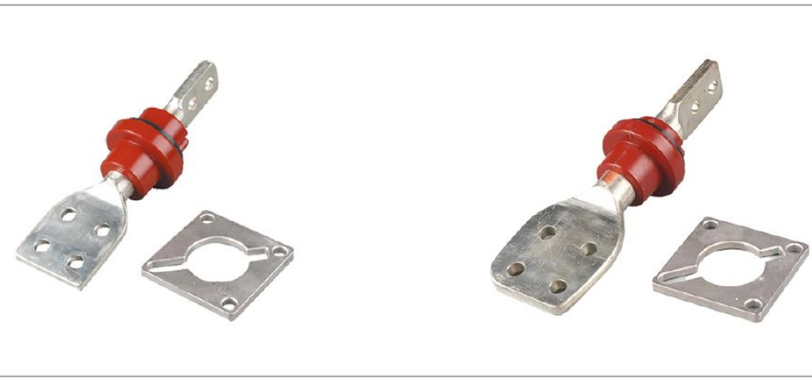




Outdoor High-voltage Composite Insulator

A DYDZ- Low voltage terminal

A DYDZ- Low voltage terminal



A DYDZ-□低压端子

A DYDZ- □ Depression Connector

箱式变低压侧输出端子，分400A、630A、1000A、1600A、2000A。
Connect to depression side of transformer. The current range is 400A, 630A, 1000A, 1600A, 2000A.

Outdoor High-voltage Composite Insulator

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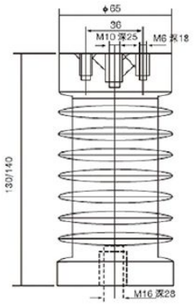
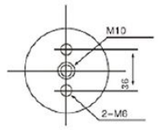
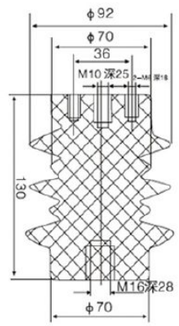
AYZJ-12KVΦ65 × 130 ~ 140（FN7）

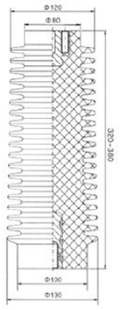


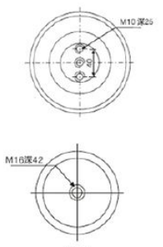


AYZJ-12KVΦ70X130（FN5）



AYZJ-40.5KV130X320 ~ 340 ~ 360 ~ 380





Outdoor High-voltage Composite Insulator

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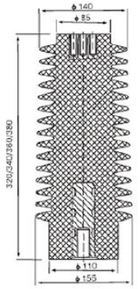
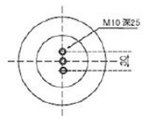
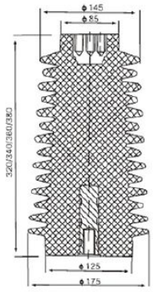
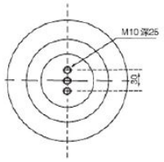
AYZJ-40.5KV155 × 320 ~ 340 ~ 360 ~ 380



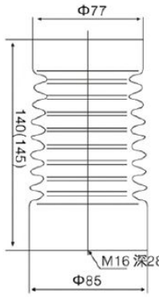


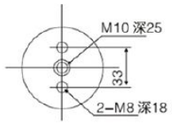
AYZJ-40.5KV175 × 320 ~ 340 ~ 360 ~ 380





AYZJ-12KVΦ85X140 ~ 145 ~ 150 ~ 170（FN7）





Outdoor High-voltage Composite Insulator

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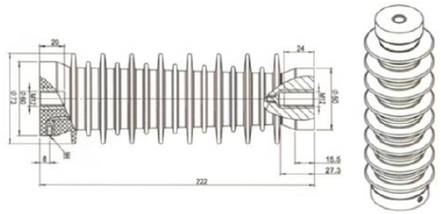
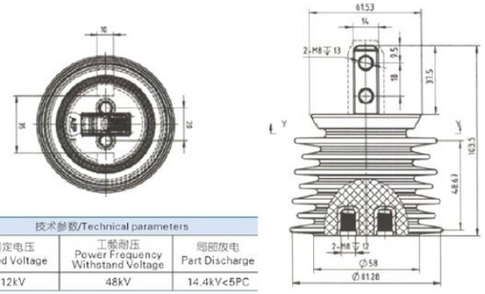
222 insulator&Transformer



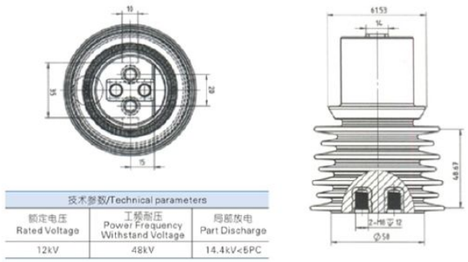
技术参数/Technical parameters			
额定电压 Rated Voltage	工频耐压 Power Frequency Withstand Voltage	局部放电 Part Discharge	感应电容 Capacitance
24kV	65kV/1min	17.2kV<5PC	70 ± 3pf

66 Contact insulator



技术参数/Technical parameters		
额定电压 Rated Voltage	工频耐压 Power Frequency Withstand Voltage	局部放电 Part Discharge
12kV	48kV	14.4kV<5PC

66 Post insulator



技术参数/Technical parameters		
额定电压 Rated Voltage	工频耐压 Power Frequency Withstand Voltage	局部放电 Part Discharge
12kV	48kV	14.4kV<5PC

Outdoor High-voltage Composite Insulator

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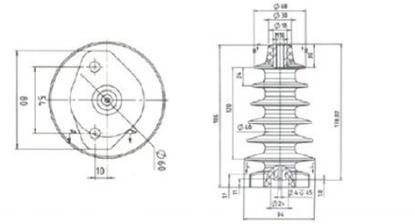
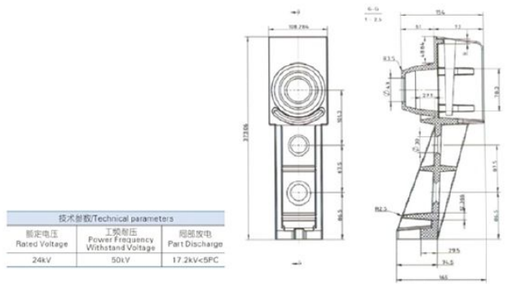
185 Insulator&Transformer



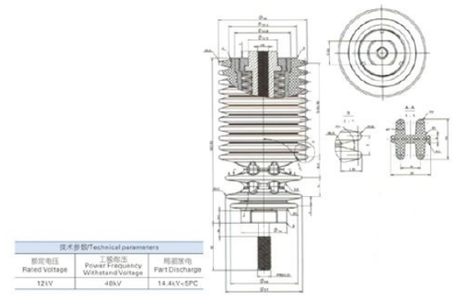
技术参数/Technical parameters			
额定电压 Rated Voltage	工频耐压 Power Frequency Withstand Voltage	局部放电 Part Discharge	感应电容 Capacitance
12kV	48kV/1min	14.4kV<5PC	120 ± 3pf

24kV Insulating support



技术参数/Technical parameters		
额定电压 Rated Voltage	工频耐压 Power Frequency Withstand Voltage	局部放电 Part Discharge
24kV	50kV	17.2kV<5PC

164 Insulation pull rod



技术参数/Technical parameters		
额定电压 Rated Voltage	工频耐压 Power Frequency Withstand Voltage	局部放电 Part Discharge
12kV	48kV	14.4kV<5PC

Outdoor High-voltage Composite Insulator

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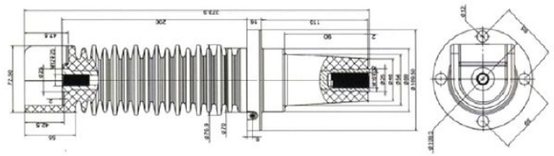
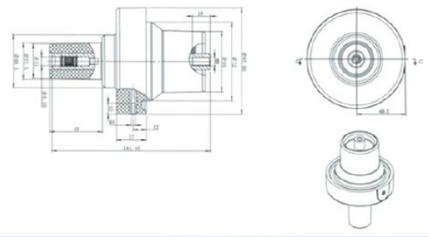
333 Sleeving



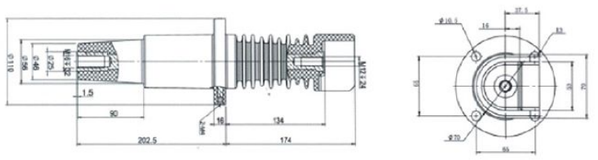
技术参数/Technical parameters				
额定电压 Rated Voltage	额定电流 Rated Current	工频耐压 PowerFrequency Withstand Voltage	局部放电 Part Discharge	感应电容 Capacitance
24kv	630A	65kV	26.4kV<5PC	18±3pf

144 Sleeving



技术参数/Technical parameters				
额定电压 Rated Voltage	额定电流 Rated Current	工频耐压 PowerFrequency Withstand Voltage	局部放电 Part Discharge	感应电容 Capacitance
12kv	250A	48kV	14.4kV<5PC	13±3pf

335 Sleeving



技术参数/Technical parameters				
额定电压 Rated Voltage	额定电流 Rated Current	工频耐压 PowerFrequency Withstand Voltage	局部放电 Part Discharge	感应电容 Capacitance
12kv	630A	48kV	14.4kV<5PC	22±3pf

Outdoor High-voltage Composite Insulator

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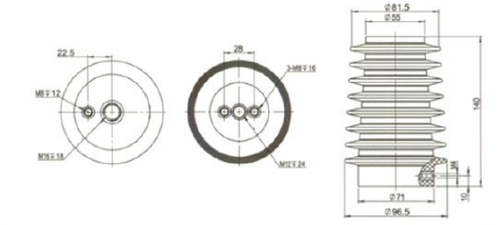
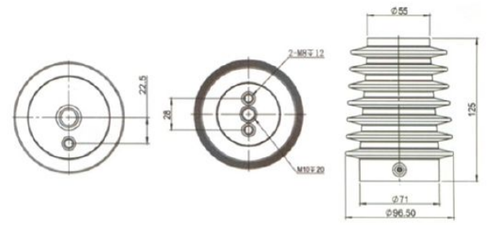
140 Insulator&Transformer



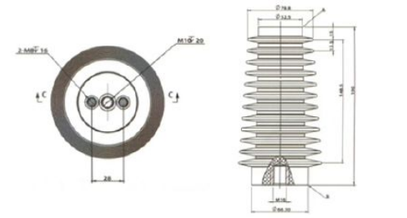
技术参数/Technical parameters			
额定电压 Rated Voltage	额定电流 Rated Current	局部放电 Part Discharge	感应电容 Capacitance
24kV	50A	15.2kV<10PC	18±3pf

125 Insulator&Transformer



技术参数/Technical parameters			
额定电压 Rated Voltage	工频耐压 Power Frequency Withstand Voltage	局部放电 Part Discharge	感应电容 Capacitance
12kV	48kV/1min	13.2kV<3PC	18±3pf

190 Insulator&Transformer



技术参数/Technical parameters			
额定电压 Rated Voltage	工频耐压 Power Frequency Withstand Voltage	局部放电 Part Discharge	感应电容 Capacitance
24kV	65kV/1min	17.2kV<5PC	120±3pf

Outdoor High-voltage Composite Insulator

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SJWL-SGFI/P 面板型故障指示器
Panel Type Fault Indicator

概述 General

短路电流传感器和接地电流传感器分别通过光纤与面板仪表主机插接，发生故障后传感器将信号通过光纤将信息通传给面板仪表主机主机进行判断，然后对应的相指示灯闪烁显示。

The short-circuit current sensor and the ground current sensor are respectively connected with the panel instrument main body through the optical fiber. After the failure, the sensor transmits the signal to the panel mainframe host through the optical fiber to judge.

安装位置 Installation Position

- 安装在电缆长线路的首端变电站出口)：可判断是站内或是站外线路中出现故障；
- 安装在用户配变高压进线处：可判断故障是否因用户端造成；
- 安装在架空线与电缆连接处：可区分故障是否出现在电缆侧；
- 安装在高压开关柜或环网柜出线分支侧：可判断出线故障分支。

- Installed at the first substation outlet of the long line of the cable): it can be judged that there is a fault in the station or outside the line;
- Installed in the user into the transformer into high-voltage line: to determine whether the failure caused by the client;
- Installed in the overhead line and cable connection: to distinguish whether the fault occurred in the cable side;
- Installed on the outlet side of high-voltage switchgear or ring main unit: can judge the outlet fault branch.

故障检测原理 Faul Detection Principle

1、短路检测：>检测线路出现短路故障时电流突变，突变值大于一定数值(可以根据继电保护定值定)，线路在一定的时间内跳闸停电；
2、接地检测：>检测接地时电压变化，电容电流及相位情况，检测谐波变化，综合判断确定是否发生接地。

1、short-circuit detection:> detection circuit short-circuit fault current mutation, the mutation value is greater than a certain value (according to the relay protection set), the line trip in a certain time power failure;
2、ground detection:> detection of ground voltage changes, the capacitor current and phase conditions, detection of harmonic changes, comprehensive judgment to determine whether the occurrence of grounding.

功能特点 Features

1、为线路发生故障期间排查故障提供帮助和便利。
2、根据线路负荷大小及线路走势分布情况，合理制定故障指示器安装位置。
3、线路正常运行时，指示器处于复位状态，无任何指示。
4、当线路放生短路或接地故障后，线路故障抢修人员根据指示器闪灯状态排查出故障所在区域。
5、产品复位时间出厂默认时间为12h(复位时间可根据客户需求进行调整)。
6、该产品对于线路故障排查提供有力帮助，便于轻松查出故障位置；
7、缩短停电时间，进一步提高供电量；
8、产品安装无需停电，免费提供专业安装工具，拆卸便利。

1、for the failure of the line during troubleshooting troubleshooting to provide help and convenience.
2、according to the size of line load and line distribution of the situation, the rational development of fault indicator installation location.
3、the line normal operation, the indicator is in the reset state, without any indication.
4、when the line release short-circuit or ground fault, the line fault repair personnel according to the indicator flash status to troubleshoot areas where the fault.
5、the product reset time Factory default time is 12h (reset time can be adjusted according to customer needs).
6、the product troubleshooting for the line to provide a powerful help, easy to find fault location;
7、to shorten the power outage time, and further improve the power supply;
8、product installation without power outages, free professional installation tools, demolition convenience.

技术参数 Technical Parameters

- 短路故障动作电流：600A
- 接地故障动作电流：20A
- 适用电压等级：6-35KV
- 适用导线电流：I≤1000A
- 环境温度：-35℃≤T≤+75℃
- 动作自动复位时间：8H(1 H～24H可选)
- 动作次数：≥5000次
- 安装尺寸：显示器面板主机开孔尺寸91.5mm (公差4-0.3mm)X 43.5mm(公差±0.3mm)
- 显示盒尺寸：90(L)× 42(W)mm
- 防护等级：显示器IP40传感器IP65

- Short circuit fault current: 600A
- Ground fault operating current: 20A
- Applicable voltage level: 6-35KV
- Applicable lead current: I≤1000A
- Ambient temperature: -35 ℃ ≤ T ≤ +75 ℃
- Auto reset time: 8H (1 H ~ 24H optional)
- The number of action: ≥ 5000 times
- Installation size: Display Panel Host hole size 91.5mm(Tolerance 4-0.3mm) X 43.5mm (tolerance ± 0.3mm)
- Display box size: 90 (L) × 42 (W) mm
- Protection class: Display IP40 sensor IP65

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Outdoor High-voltage Composite Insulator

架空型二合一故障指示器
Overhead in Fault Indicator

概述 General

SJWL-SGFI/ II 接地短路二合一指示器配电线路分支很多，故障频发，查找线路故障是电力线路维护人员比较头疼的事情，查找一个接地故障有时候半天时间，有的从早上找到晚上，在内蒙有的要找几天。因此安装故障指示器可以大大提高供电可靠性，减轻劳动强度大，缩短停电时间。

SJWL-SGFI / II two-in-one indicator shorted to ground distribution circuit branch a lot of frequent failure to find fault line is the power line maintenance personnel headache thing to find a ground fault sometimes half a day, some from the morning to find the evening , In Inner Mongolia have to find a few days. Therefore, installation of fault indicators can greatly improve the reliability of power supply, reduce labor intensity, shorten the power outage time.

产品功能 Product Features

短路故障、单相接地故障检测，白天翻牌报警方式。
Short-circuit fault, single-phase ground fault detection, daytime flop alarm.

产品原理 Principle of Product

1、短路检测：检测线路出现短路故障时电流突变，突变值大于一定数值(可以根据继电保护定值设定)，线路在一定的时间内跳闸停电
2、接地检测检测接地时电压变化，电容电流及相位情况，检测谐波变化，综合判断确定是否发生接地。

1、Short-circuit detection: detection circuit short-circuit fault current mutation, the mutation value is greater than a certain value (set according to the relay protection settings), the line trip within a certain time outage
2、Ground detection Detection of ground changes in voltage, current and phase of the capacitor, detect harmonic changes, comprehensive judgment to determine whether the ground.

功能特点 Features

1、为线路发生故障期间排查故障提供帮助和便利。
2、根据线路负荷大小及线路走势分布情况，合理制定故障指示器安装位置。
3、线路正常运行时，指示器处于复位状态，无任何指示。
4、当线路发生短路或接地故障后，白天指示器自动转动指示转碗，变为红色报警指示状态；线路故障抢修人员根据指示器指示状态排查出故障所在区域。
5、产品复位时间出厂默认时间为12h(复位时间可根据客户需求进行调整)。
6、该产品对于线路故障排查提供有力帮助，便于轻松查出故障位置；
7、缩短停电时间，进一步提高供电量；
8、产品安装无需停电，免费提供专业安装工具，拆卸便利。

1、It helps and troubleshoots faults during line failures.
2、According to the size of the load line and the distribution trend of the line, a reasonable fault indicator to install the installation location.
3、When the line is in normal operation, the indicator is in the reset state without any indication.
4、When the line short-circuit or ground fault, the day indicator automatically turn indicator bowl, into a red alarm indication state; line fault repair personnel under the indicator indicates the status of the row Locate the fault location.
5、Product Reset Time The default time is 12h (reset time can be adjusted according to customer needs).
6、The product for the troubleshooting of lines to provide a powerful help to easily identify the fault location;
7、Shorten the power outage time, and further improve the power supply;
8、Product installation without power outages, free professional installation tools, demolition convenience.

技术参数 Technical Parameters

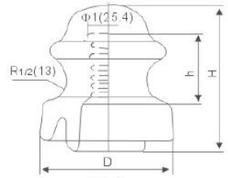
- 适用电压等级：6KV~35KV
- 适用导线电流：Ⅰ≤1000A
- 适用导线线径：1 6mm2≤d~<450mm²
- 动作响应时间：0.02S≤△T<3S
- 动作复位时间：6H，12H，24H，36H可选(复位时间可根据客户需求选择)
- 动作次数：≥5000次
- 电池寿命：≥8年

- Applicable voltage level: 6KV ~ 35KV
- Applicable lead current: I≤1000A
- Applicable wire diameter: 1 6mm2 ≤ d ~ <450mm2
- Action response time: 0.02S △T <3S
- Action reset time: 6H, 12H, 24H, 36H can be Election (reset time can be selected according to customer demand)
- The number of action: 5000 times
- Battery life: 8 years

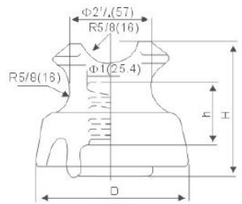
Porcelain Composite Insulator

ANSI Low/Medium Voltage Pin Type Insulators

ANSI Low/Medium Voltage Pin Type Insulators



55-1



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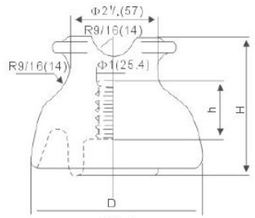

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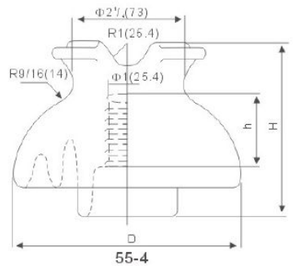

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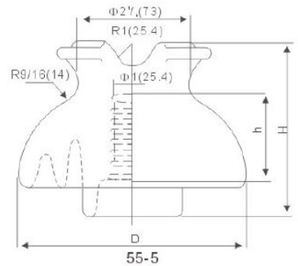

55-5

• Main technical parameters of ANSI low/medium voltage pin type insulators

Class ANSI	Main Dimension in (mm)			Leakage Distance in (mm)	Min.Pin Length in (mm)	Cantilever Strength 1b (KN)	Flashover Voltage				Power Frequency Puncture Voltage KV	Redio Influence Voltage	
							Power Frequency		Imprise				
	D (max)	H	h				Dry kV	Wet kV	Positive kV	Negative kV		Test Voltage To Ground KV	Max Riv At 1 Mhz μV
55-1	3 1/4 (83)	3 1/2 (89)	1 3/4 (44)	4 (102)	4 (102)	3000 (13)	35	20	50	70	50	5	2500/50
55-2	3 3/4 (95)	3 1/4 (83)	1 1/2 (38)	5 (127)	4 (102)	2500 (11)	50/45	25	75/70	95/85	70	5	2500/50
55-3	3 3/4 (121)	3 3/4 (95)	1 1/2 (38)	7 (178)	5 (127)	2500 (11)	65/55	35/30	100/90	130/110	90	10	5500/50
55-4	5 1/2 (140)	4 3/8 (111)	1 3/4 (44)	9 (229)	5 (127)	3000 (13)	70/65	40/35	110/105	140/130	95	10	5500/50
55-5	7 (178)	4 7/8 (124)	2 (51)	12 (305)	6 (152)	3000 (13)	85/80	45	40/130	170/150	115	15	8000/100

Porcelain Composite Insulator

ANSI Line Post Insulators For High Voltage

ANSI Line Post Insulators For High Voltage

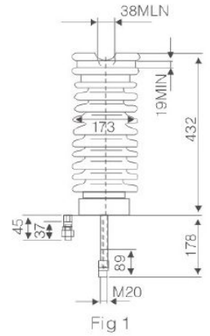

Fig 1

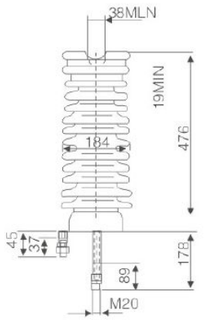

Fig 2

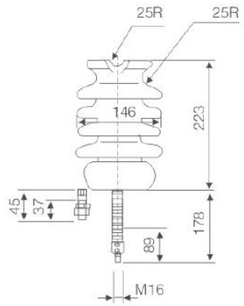

Fig 3

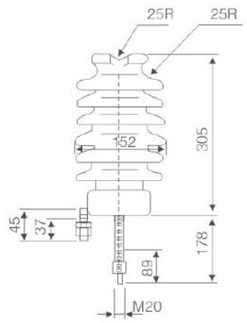

Fig 4

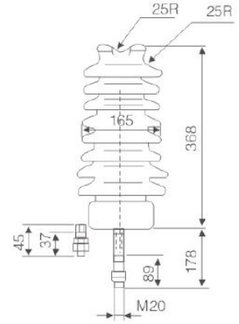

Fig 5

• Main technical parameters of ANSI line post insulators for high voltage

ANSI class		57-1S 57-1L	57-2S 57-2L	57-3S 57-3L	57-4S 57-4L	57-5S 57-5L
Fig.No		3	4	5	1	2
Dimensions of the pin mm		M16	M20(M16)	M20	M20	M20
Creepage distance mm		356h	559	737	1015	1145
Dry arcing distance mm		165	241	311	368	438
Cantiever strength KN		12.5	12.5	12.5	12.5	12.5
Low frequency	Dry flashover KV	80	110	12.5	150	175
flashover voltage	Wet flashover KV	60	85	100	125	150
Critical impulsle	positive KV	130	180	210	255	290
flashover voltage	Negative KV	155	205	260	340	380
Radio influence	Test voltage to ground KV	15	22	30	44	44
votage data	At 1000KHZ Max. RIV uV	100	100	200	200	200
Weight kg		5	9.8	12	16	18

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ANSI Line Post Insulators For High Voltage

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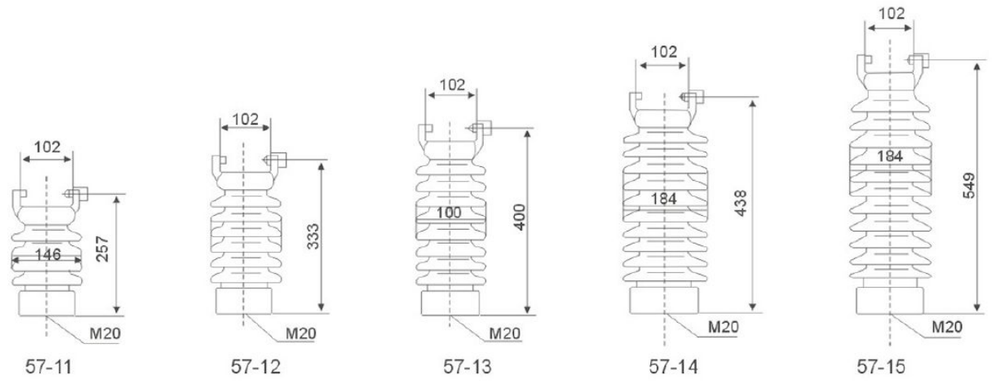

- **Main technical parameters of ANSI line post insulators for high voltage**

ANSI class		57-11	57-12	57-13	57-14	57-15
Creepage distance(mm)		356	559	737	1015	1145
Dry arcing distance(mm)		165	241	311	368	438
Cantiever strength(kN)		12.5	12.5	12.5	12.5	12.5
Low frequency	Dry flashover(kV)	80	110	125	150	175
flashover voltage	Wet flashover(kV)	60	85	100	125	150
Critical impulse	positive(kV)	130	180	210	255	290
flashover voltage	Negative (kV)	155	205	260	340	380
Radio influence	Test voltage to ground (kV)	15	22	30	44	44
votage data	At 1000K Hz Max.RIV(uV)	100	100	200	200	200
Weight(kg)		6.8	10	11.8	15.9	18.6

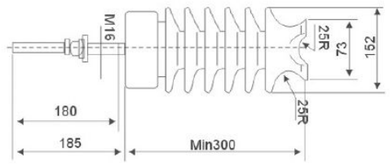

Fig1

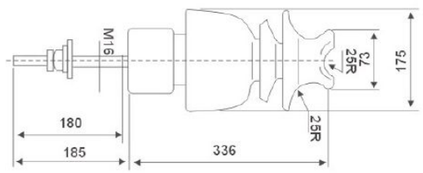

Fig2

Type		ANSI 57-2L-1	PIN POST
Creepage distance(mm)		599	520
Protected creepage distance(mm)		200	260
Dry arcing distance(mm)		240	260
Cantiever strength(kN)		12.5	12.5
Power frequency	Dry(kV)	90	90
Withstand voltage	Wet(kV)	65	65
Impulse withstand voltage (kv)		150	150
Radio influence	Teat voltage to ground (kv)	22	22
Voltage data	Max.Riv at 1000kh	100	100
Net weight, each, approx.,kg		9.2	10

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Glass insulator

DC disk suspension-type glass insulator

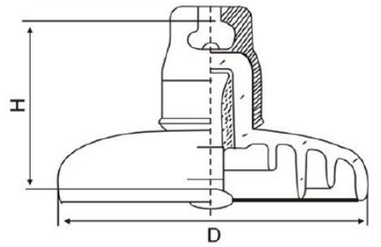

图7 Fig. 7

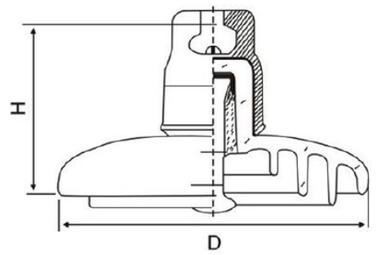

图8 Fig. 8

Main technicalparameters (GB and IEC) of DC disk suspension-type glass insulator

Type	IEC Type	Drawing Number	Diameter D (mm)	Spacing H (mm)	Creepage Distance L (mm)	Size of Coupling (mm)	Mechanical Failing Load (kN)	Mechanical Routine Test (kN)	Anodic DC Dry Withstand Voltage (kV)	Anodic DC Wet Withstand Voltage (kV)	Lighting Impulse Withstand Voltage (kV)	Impulse Withstand Voltage (p.u.)	SF6 Puncture Withstand Voltage (kV)	Radio Interference Voltage (10kV, 1MHz) (μV)	DC Corona Test (pin&cap) (kV)	Net Weight Per Unit (kg)
LXZP-160	U160BP/170H	7	320	170	550	20	160	80	150	65	140	2.8	225	≤50	≥50	9.7
LXZP-210	U210BP/170H	7	320	170	550	20	210	105	150	65	140	2.8	225	≤50	≥50	10.2
LXZP-240	U240BP/170H	7	320	170	550	24	240	120	150	65	140	2.8	225	≤50	≥50	10.5
LXZP-300	U300BP1/195H	7	390	195	710	24	300	150	150	65	140	2.8	225	≤50	≥50	15.4
LXZP1-300	U300BP/195H	7	380	195	635	24	300	150	170	75	155	2.8	255	≤50	≥50	16.0
LXZP-420	U420BP/205H	8	360	205	550	28	420	210	150	65	140	2.8	225	≤50	≥50	14.6
LXZP1-420	U420BP1/205H	8	380	205	620	28	420	210	160	70	150	2.8	240	≤50	≥50	18.9
LXZP-550	U550BP/240H	8	380	240	650	32	550	275	160	70	150	2.8	240	≤50	≥50	19.1
LXZP1-550	U550BP1/240H	8	380	240	710	32	550	275	160	70	150	2.8	240	≤50	≥50	22.0
LXZP-840	U840BP/300	8	420	300	710	40	840	420	170	75	155	2.8	240	≤50	≥50	24.5

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Glass insulator

Disk suspension-type glass insulator

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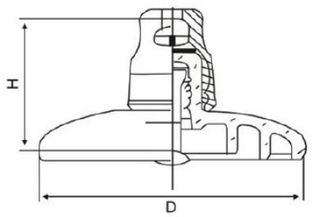

图1 Fig. 1

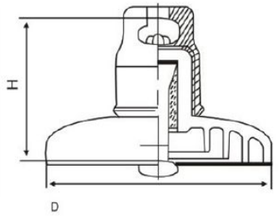

图2 Fig. 2

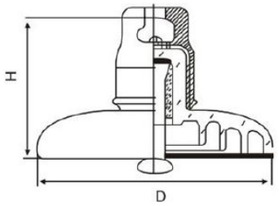

图3 Fig. 3

Maintechnicalparameters(GBandIEC) of standard disk suspension-type glass insulator

Type	IEC Type	Drawing Number	Diameter D (mm)	Spacing H (mm)	Creepage Distance L (mm)	Size of Coupling (mm)	Mechanical Failing Load (kN)	Mechanical Routine Test (kN)	Power Frequency Withstand Voltage (DRY) (kV)	Power Frequency Withstand Voltage (WET) (kV)	Lighting Impulse Withstand Voltage (kV)	Impulse Withstand Voltage (p.u.)	Min Power Frequency Puncture Voltage (kV)	Radio Interference Voltage (10kV, 1MHz) (μV)	Corona Test (pin&cap) (kV)	Power Frequency Electric Arc Test	Net Weight Per Unit (kg)
LXP1-70	U70BL/146	1	255	146	320	16	70	35	70	40	100	2.8	130	≤50	18/22	0.12s/20kA	3.6
LXP2-70	U70BS/127	1	255	127	320	16	70	35	70	40	100	2.8	130	≤50	18/22	0.12s/20kA	3.5
LXP-100	U100BL/146	1	255	146	320	16	100	50	70	40	100	2.8	130	≤50	18/22	0.12s/20kA	4.0
LXP2-100	U100BS/127	1	255	127	320	16	100	50	70	40	100	2.8	130	≤50	18/22	0.12s/20kA	4.0
LXP-120	U120B/146	1	255	146	320	16	120	60	70	40	100	2.8	130	≤50	18/22	0.12s/20kA	4.2
LXP2-120	U120B/127	1	255	127	320	16	120	60	70	40	100	2.8	130	≤50	18/22	0.12s/20kA	4.0
LXP-160	U160BL/170	1	280	170	400	20	160	80	75	45	110	2.8	130	≤50	18/22	0.12s/20kA	6.5
LXP1-160	U160B/155	1	280	155	450	20	160	80	75	45	110	2.8	130	≤50	18/22	0.12s/20kA	6.3
LXP3-160	U160B/155	1	280	155	400	20	160	80	75	45	110	2.8	130	≤50	18/22	0.12s/20kA	6.3
LXP4-160	U160BS/146	1	280	146	400	20	160	80	75	45	110	2.8	130	≤50	18/22	0.12s/20kA	6.3
LXP2-210	U210B/170	1	280	170	460	20	210	105	85	45	125	2.8	130	≤50	18/22	0.12s/20kA	6.9
LXP3-210	U210B/170	1	280	170	400	20	210	105	75	45	110	2.8	130	≤50	18/22	0.12s/20kA	6.9
LXP-240	U240B/170	2	280	170	400	24	240	120	75	45	110	2.8	130	≤50	18/22	0.12s/20kA	6.9
LXP2-240	U240B/170	2	280	170	460	24	240	120	85	50	110	2.8	130	≤50	18/22	0.12s/20kA	6.9
LXP-300	U300B/195	3	320	195	485	24	300	150	85	50	130	2.8	130	≤50	18/22	0.12s/20kA	10.6
LXP-420	U420/205	3	360	205	550	28	420	210	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	16.0
LXP-550	U550B/240	3	380	240	620	32	550	275	95	55	145	2.8	130	≤50	18/22	0.12s/20kA	21.5

XIKAI®

Glass insulator

Stain-resistant disk suspension-type glass insulator

Key of Power
Electric Professional
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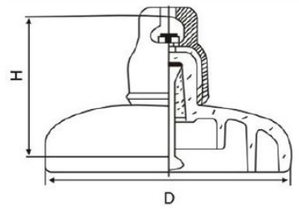

图4 Fig. 4

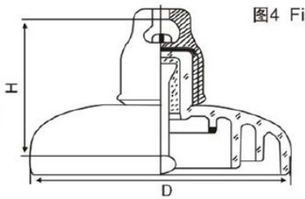

图5 Fig. 5

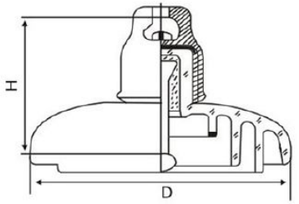

图6 Fig. 6

Maintechnical parameters (GBandEC) of stain-resistant disk suspension-type glass insulator

Type	IEC Type	Drawing Number	Diameter D (mm)	Spacing H (mm)	Creepage Distance L (mm)	Size of Coupling (mm)	Mechanical Failing Load (kN)	Mechanical Routine Test (kN)	Power Frequency Withstand Voltage (DRY) (kV)	Power Frequency Withstand Voltage (WET) (kV)	Lighting Impulse Withstand Voltage (kV)	Impulse Withstand Voltage (p.u.)	Min Power Frequency Puncture Voltage (kV)	Radio Interference Voltage (10kV, 1MHz) (μV)	Corona Test (pin&cap) (kV)	Power Frequency Electric Arc Test	Net Weight Per Unit (kg)
LXWP4-70	U70BP/146	4	260	146	400	16	70	35	80	45	110	2.8	130	≤50	18/22	0.12s/20kA	5.0
LXWP5-70	U70BLP/146	4	280	146	450	16	70	35	85	50	125	2.8	130	≤50	18/22	0.12s/20kA	5.5
LXWP6-70	U70BP/146	4	320	146	550	16	70	35	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	7.5
LXWP3-100	U100BLP/146	4	260	146	400	16	100	50	80	45	110	2.8	130	≤50	18/22	0.12s/20kA	5.0
LXWP4-100	U100BLP/146	4	280	146	450	16	100	50	85	50	125	2.8	130	≤50	18/22	0.12s/20kA	5.5
LXWP6-100	U100BP/146	4	320	146	550	16	100	50	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	7.5
LXWP3-120	U120BLP/146	4	260	146	400	16	120	60	80	45	110	2.8	130	≤50	18/22	0.12s/20kA	5.0
LXWP4-120	U120BLP/146	4	280	146	450	16	120	60	85	50	125	2.8	130	≤50	18/22	0.12s/20kA	5.5
LXWP6-120	U120BP/146	4	320	146	550	16	120	60	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	7.5
LXWP3-160	U160BSP/155	4	280	155	450	20	160	80	85	50	125	2.8	130	≤50	18/22	0.12s/20kA	7.0
LXWP4-160	U160BP/170	4	280	170	450	20	160	80	85	50	125	2.8	130	≤50	18/22	0.12s/20kA	7.2
LXWP5-160	U160BLP/170	4	320	170	550	20	160	80	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	9.2
LXWP6-160	U160BP/155	4	320	155	550	20	160	80	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	9.0
LXWP7-160	U160BSP/146	4	320	146	550	20	160	80	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	8.8
LXWP3-210	U210BP/170	4	320	170	550	20	210	105	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	10.0
LXWP3-240	U240BP/170	5	320	170	550	24	240	120	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	10.5
LXWP4-240	U240BP/170	5	320	170	550	20	240	120	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	10.5
LXWP-300	U300BP/195	6	390	195	710	24	300	150	95	60	150	2.8	130	≤50	18/22	0.12s/20kA	14.0
LXWP3-300	U300BP/195	6	380	195	635	24	300	150	95	60	150	2.8	130	≤50	18/22	0.12s/20kA	14.0
LXWP-420	U420BP/205	6	380	205	620	28	420	210	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	16.5
LXWP-550	U550BP/240	6	380	240	650	32	550	275	95	55	145	2.8	130	≤50	18/22	0.12s/20kA	20.5
LXWP1-550	U550BP/240	6	380	240	710	32	550	275	95	60	145	2.8	130	≤50	18/22	0.12s/20kA	20.5
LXWP-760	U760BP/280	6	420	280	700	36	760	380	90	55	140	2.8	130	≤50	18/22	0.12s/20kA	22
LXWP-840	U840BP/300	6	420	300	710	40	840	420	95	60	145	2.8	130	≤50	18/22	0.12s/20kA	24.5

Glass insulator

Open Air Profile Toughened Glass Suspension Insulator

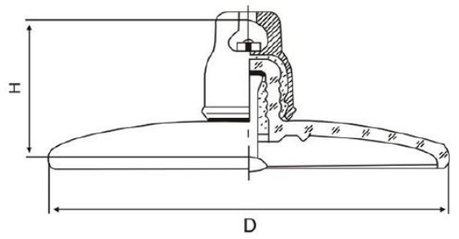

图9 Fig. 9

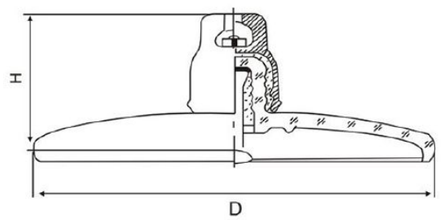

图10 Fig. 10

The Parameters for Open Air Profile (AC) Toughened Glass Suspension Insulator (GB&IEC)

Type	IEC Type	Drawing Number	Diameter D (mm)	Spacing H (mm)	Creepage Distance L (mm)	Size of Coupling (mm)	Mechanical Failing Load (kN)	Mechanical Routine Test (kN)	Power Frequency Withstand Voltage (DRY) (kV)	Power Frequency Withstand Voltage (WET) (kV)	Lighting Impulse Withstand Voltage (kV)	Impulse Withstand Voltage (p.u.)	Min Power Frequency Puncture Voltage (kV)	Radio Interference Voltage (10kV, 1MHz) (μV)	Corona Test (pin&cap) (kV)	Power Frequency Electric Arc Test	Net Weight Per Unit (kg)
LXAP-70	U70BP/146M	9	380	146	365	16	70	35	55	45	90	2.8	130	≤50	18/22	0.12s/20kA	5.3
LXAP-100	U100BP/146M	9	380	146	365	16	100	50	55	45	90	2.8	130	≤50	18/22	0.12s/20kA	5.2
LXAP-120	U120BP/146M	9	380	146	365	16	120	60	55	45	90	2.8	130	≤50	18/22	0.12s/20kA	5.4
LXAP-160	U160BP/155M	10	420	155	380	20	160	80	60	50	95	2.8	130	≤50	18/22	0.12s/20kA	7.2
LXAP-210	U210BP/170M	10	420	170	380	20	210	105	60	50	95	2.8	130	≤50	18/22	0.12s/20kA	7.3
LXAP-240	U240BP/170M	10	420	170	380	24	240	120	60	50	95	2.8	130	≤50	18/22	0.12s/20kA	7.5

The Parameters for Open Air Profile (DC) Toughened Glass Suspension Insulator (GB&IEC)

Type	IEC Type	Drawing Number	Diameter D	Spacing H	Creepage Distance L	Size of Coupling	Mechanical Failing Load	Mechanical Routine Test	Anodic DC Dry Withstand Voltage	Anodic DC Wet Withstand Voltage	Lighting Impulse Withstand Voltage	Impulse Withstand Voltage	SF6 Puncture Withstand Voltage	Radio Interference Voltage (10kV, 1MHz)	DC Corona Test (pin&cap)	Net Weight Per Unit
LXAZP-160	U160BP/170M	10	420	170	390	20	160	80	140	60	110	2.8	210	≤50	≥50	10
LXAZP-210	U210BP/170M	10	420	170	390	20	210	105	140	60	110	2.8	210	≤50	≥50	10.4

Glass insulator

Double-umbrella disk suspension-type glass insulator

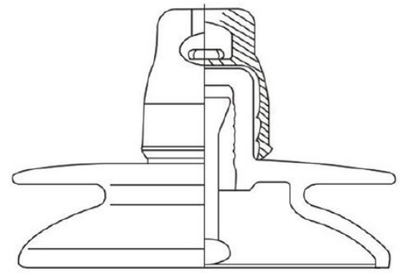

图11 Fig. 11

Main technical parameters (GB and IEC) of double-umbrella disk suspension-type glass insulator

Type	Drawing Number	Diameter D (mm)	Spacing H (mm)	Creepage Distance L (mm)	Size of Coupling (mm)	Mechanical Failing Load (kN)	Mechanical Routine Test (kN)	Power Frequency Withstand Voltage (DRY) (kV)	Power Frequency Withstand Voltage (WET) (kV)	Lighting Impulse Withstand Voltage (kV)	Impulse Withstand Voltage (p.u.)	Min Power Frequency Puncture Voltage (kV)	Radio Interference Voltage (10kV, 1MHz) (μV)	Corona Test (pin&cap) (kV)	Power Frequency Electric Arc Test	Net Weight Per Unit (kg)
UG70B146/450D 16R	11	280	146	450	16	70	35	80	45	120	2.8	130	≤50	18/22	0.12s/20kA	6.3
UG100B146/450D 16R	11	280	146	450	16	100	50	80	45	120	2.8	130	≤50	18/22	0.12s/20kA	6.3
UG120B146/450D 16R	11	280	146	450	16	120	60	80	45	120	2.8	130	≤50	18/22	0.12s/20kA	6.3
UG160B170/450D 20R	11	300	170	450	20	160	80	85	45	130	2.8	130	≤50	18/22	0.12s/20kA	8.4
UG210B170/450D 20R	11	300	170	450	20	210	105	85	45	130	2.8	130	≤50	18/22	0.12s/20kA	9.0
UG300B195/480D 24R	11	330	195	480	24	300	150	85	50	130	2.8	130	≤50	18/22	0.12s/20kA	13.0

Glass insulator

Three-shells Type Toughened Glass Suspension Insulator

Key of Power
Electric Professional
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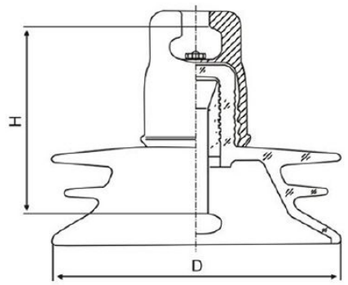

图12 Fig. 12

The Parameters of Three-shells Type (AC) Toughened Glass Suspension Insulator (GB&IEC)

Type	Drawing Number	Diameter D (mm)	Spacing H (mm)	Creepage Distance L (mm)	Size of Coupling (mm)	Mechanical Failing Load (kN)	Mechanical Routine Test (kN)	Power Frequency Withstand Voltage (DRY) (kV)	Power Frequency Withstand Voltage (WET) (kV)	Lighting Impulse Withstand Voltage (kV)	Impulse Withstand Voltage (p.u.)	Min Power Frequency Puncture Voltage (kV)	Radio Interference Voltage (10kV, 1MHz) (μV)	Corona Test (pin&cap) (kV)	Power Frequency Electric Arc Test	Net Weight Per Unit (kg)
UG160B170/550T 20R	12	330	170	550	20	160	80	85	50	130	2.8	130	≤50	18/22	0.12s/20kA	8.9
UG210B170/550T 20R	12	330	170	550	20	210	105	85	50	130	2.8	130	≤50	18/22	0.12s/20kA	10.2
UG300B195/550T 24R	12	330	195	550	24	300	150	85	50	130	2.8	130	≤50	18/22	0.12s/20kA	11.3
UG300B195/635T 24R	12	380	195	635	24	300	150	100	60	130	2.8	130	≤50	18/22	0.12s/20kA	15.3
UG420B205/635T 28R	12	400	205	635	28	420	210	110	65	130	2.8	130	≤50	18/22	0.12s/20kA	16.5
UG550B240/635T 32R	12	400	240	635	32	550	275	110	65	130	2.8	130	≤50	18/22	0.12s/20kA	17.5

The Parameters of Three-shells Type (DC) Toughened Glass Suspension Insulator (GB&IEC)

Type	Drawing Number	Diameter D	Spacing H	Creepage Distance L	Size of Coupling	Mechanical Failing Load	Mechanical Routine Test	Anodic DC Dry Withstand Voltage	Anodic DC Wet Withstand Voltage	Lighting Impulse Withstand Voltage	Impulse Withstand Voltage	SF6 Puncture Withstand Voltage	Radio Interference Voltage (10kV, 1MHz)	DC Corona Test (pin & cap)	Net Weight Per Unit
DCUG160B170/550T20R	12	330	170	550	20	160	80	140	55	140	2.8	210	≤50	≥50	8.9
DCUG210B170/550T20R	12	330	170	550	20	210	105	140	55	140	2.8	210	≤50	≥50	10.4
DCUG300B195/550T24R	12	330	195	550	24	300	150	150	60	140	2.8	225	≤50	≥50	11.3
DCUG300B195/635T24R	12	380	195	635	24	300	150	150	60	155	2.8	225	≤50	≥50	15.3
DCUG420B205/635T28R	12	400	205	635	28	420	210	150	65	155	2.8	225	≤50	≥50	17.5
DCUG550B240/635T32R	12	400	240	635	32	550	275	160	70	155	2.8	225	≤50	≥50	18.8

Key of Power
Electric Professional
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Glass insulator

Earth wire disk suspension-type glass insulator

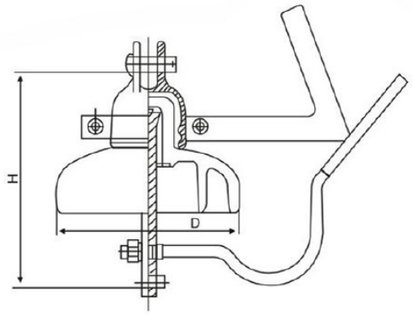

图13 Fig. 13

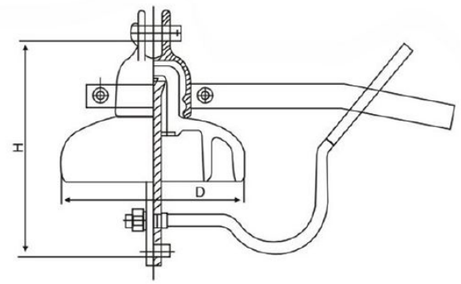

图14 Fig. 14

Main technical parameters (GB and IEC) of earth wire disk suspension-type glass insulator

Type	IEC Type	Drawing Number	Diameter D (mm)	Spacing H (mm)	Creepage Distance L (mm)	Size of Coupling (mm)	Mechanical Failing Load (kN)	Mechanical Routine Test (kN)	Power Frequency Withstand Voltage (WET) (kV)	Remove the Power Frequency Withstand Voltage (kV)		Power Frequency Discharge Voltage With 20mm Gap Distance (kA)		Extinguished Arc Current at Power Frequency Refresh Voltage 2500V, with 15mm Gap Disance (kA)		Electrode Performance of Withstand Arc Current			Min Power Frequency Puncture Voltage (kV)	Net Weight Per Unit (kg)
										DRY	WET	MAX	MIN	Inductance Current	Capacitance Current	Power Frequency Current	Time	Frequency		
LXDP-70C	U70C	13	200	210	220	16C	70	35	30	45	25	30	8	35	20	10	0.2	2	130	4.5
LXDP-70CN	U70CN	14	200	210	220	16C	70	35	30	45	25	30	8	35	20	10	0.2	2	130	4.5
LXDP-100C	U100C	13	200	210	220	16C	100	50	30	45	25	30	8	35	20	10	0.2	2	130	4.5
LXDP-100CN	U100CN	14	200	210	220	16C	100	50	30	45	25	30	8	35	20	10	0.2	2	130	4.5