

LINE POST INSULATORS

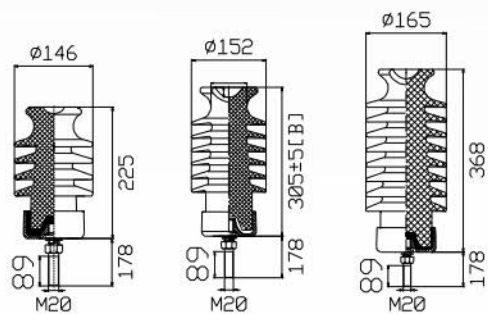
57 SERIES

Line post insulator is used for supporting wires and resisting electric current, which is made of one piece of porcelain but has fixing clamp arrangement are in both top and bottom end. It has higher numbers of petticoats and has greater height for upgrading the capacity of existing lines with a narrow right of way for higher voltage application. This type of insulator can be mounted on supporting structure horizontally as well as vertically.

1 Voltage up to
11KV - 66KV

2 Material
Porcelain

3 Standard applied
**IEC383, ANSI C29.1,
IEC60437, ANSI C29.7**



57-1	57-2	57-3	ANSI Class
356	559	737	Creepage Distance(mm)
165	241	311	Dry Arcing Distance(mm)
12.5	12.5	12.5	Cantilever Strength(kn)
80	110	125	Low Frequency Flashover Voltage-Dry(kV)
60	85	100	Low Frequency Flashover Voltage-Wet(kV)
130	180	210	Critical Impulse Flashover Voltage-Pos.,(kV)
155	205	260	Critical Impulse Flashover Voltage-Neg.,(kV)
15	22	30	Test Voltage to Ground(kV)
100	100	200	Maximum RIV at 1000KHZ(μV)
5.2	9	11	Net Weight(kg)



**INSULATOR
FITTING**

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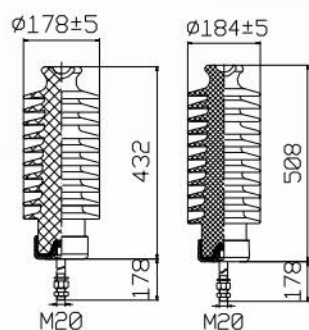


LINE POST INSULATORS

57 SERIES

Line post insulator is used for supporting wires and resisting electric current, which is made of one piece of porcelain but has fixing clamp arrangement are in both top and bottom end. It has higher numbers of petticoats and has greater height for upgrading the capacity of existing lines with a narrow right of way for higher voltage application. This type of insulator can be mounted on supporting structure horizontally as well as vertically.

- 1 Voltage up to **11KV - 66KV**
- 2 Material **Porcelain**
- 3 Standard applied **IEC383, ANSI C29.1, IEC60437, ANSI C29.7**



57-4	57-5	ANSI Class
1015	1145	Creepage Distance(mm)
368	438	Dry Arcing Distance(mm)
12.5	12.5	Cantilever Strength(kn)
150	175	Low Frequency Flashover Voltage-Dry(kV)
125	150	Low Frequency Flashover Voltage-Wet(kV)
255	290	Critical Impulse Flashover Voltage-Pos.,(kV)
340	380	Critical Impulse Flashover Voltage-Neg.,(kV)
44	44	Test Voltage to Ground(kV)
200	200	Maximum RIV at 1000KHZ(μ v)
16	23	Net Weight(kg)



**INSULATOR
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LINE POST INSULATORS

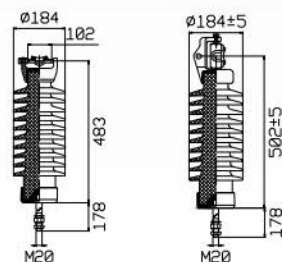
57 SERIES

Line post insulator is used for supporting wires and resisting electric current ,which is made of one piece of porcelain but has fixing clamp arrangement are in both top and bottom end. It has higher numbers of petticoats and has greater height for upgrading the capacity of existing lines with a narrow right of way for higher voltage application. This type of insulator can be mounted on supporting structure horizontally as well as vertically.

1 Voltage up to
11KV - 66KV

2 Material
Porcelain

3 Standard applied
**IEC383, ANSI C29.1,
IEC60437, ANSI C29.7**



57-14	57-24	ANSI Class
1015	1015	Creepage Distance(mm)
368	368	Dry Arcing Distance(mm)
12.5	12.5	Cantilever Strength(kn)
150	150	Low Frequency Flashover Voltage-Dry(kV)
125	135	Low Frequency Flashover Voltage-Wet(kV)
255	255	Critical Impulse Flashover Voltage-Pos.,(kV)
340	340	Critical Impulse Flashover Voltage-Neg.,(kV)
44	44	Test Voltage to Ground(kV)
200	200	Maximum RIV at 1000KHZ(μ v)
15.9	16.8	Net Weight(kg)



**INSULATOR
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Vertical Bracket
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57-14 Vertical



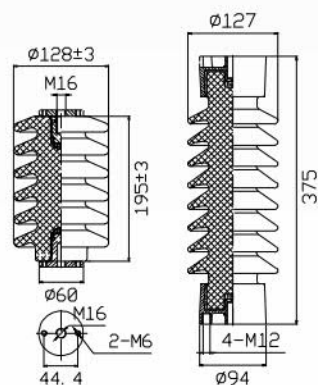
57-24 Horizontal

STATION/SWITCH POST INSULATORS

P70 & C8-170 SERIES

Station post insulator is an insulator of generally columnar shape, and it consists of one post insulator unit or an assembly of such units and is intended to give rigid support to a live part which is insulated from earth or from another live part. Station post insulator may be manufactured according to IEC, ANSI, BS and other standards, and are widely used for power station equipments.

- 1 Voltage up to **11KV - 330KV**
- 2 Material **Porcelain**
- 3 Standard applied **ANSI C29.1, ANSI C29.9**



P70	C8-170	ANSI Class
276	400	Creepage Distance(mm)
10	8	Cantilever Strength(kn)
-	100	Low Frequency Flashover Voltage-Dry(kV)
28	70	Low Frequency Flashover Voltage-Wet(kV)
-	-	Critical Impulse Flashover Voltage-Pos.,(kV)
-	-	Critical Impulse Flashover Voltage-Neg.,(kV)
75	170	Impulse withstand voltage(kV)
-	-	Net Weight(kg)



P70

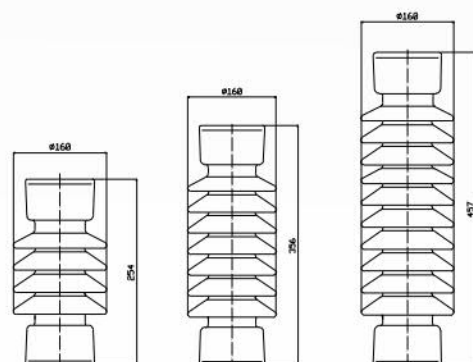
C8-170

STATION POST INSULATORS

TR SERIES

Station post insulator is an insulator of generally columnar shape, and it consists of one post insulator unit or an assembly of such units and is intended to give rigid support to a live part which is insulated from earth or from another live part. Station post insulator may be manufactured according to IEC, ANSI, BS and other standards, and are widely used for power station equipments.

- 1 Voltage up to **11KV-66KV**
- 2 Material **Porcelain**
- 3 Standard applied **IEC60383, AS2947.2**



TR-205	TR-208	TR-210	ANSI Class(kV)
394	610	940	Creepage Distance(mm)
8.9	8.9	8.9	Cantilever Strength(kn)
38	44.5	53	Tension Strength(kn)
791	904	1130	Torsion Strength(n-m)
44.5	44.5	66.7	Compression Strength(kn)
85	110	145	Low Frequency Flashover Voltage-Dry(kV)
55	75	100	Low Frequency Flashover Voltage-Wet(kV)
125	170	225	Critical Impulse Flashover Voltage-Pos.,(kV)
200	250	290	Critical Impulse Flashover Voltage-Neg.,(kV)
50	70	95	Low Frequency Withstand Voltage-Dry(kV)
45	60	80	Low Frequency Withstand Voltage-Wet(kV)
110	150	200	Impulse Withstand Voltage(kV)
7	11	15.4	Net Weight(kg)



TR-205



TR-208



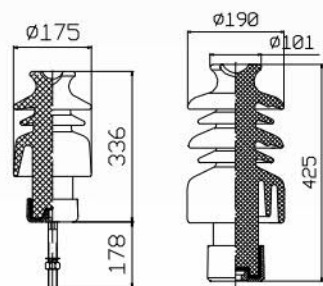
TR-210

PIN POST INSULATORS

11006 & 57 SERIES

Pin post insulator is an insulator of generally columnar shape, and it consists of one post insulator unit or an assembly of such units and is intended to give rigid support to a live part which is insulated from earth or from another live part. Station post insulator may be manufactured according to IEC, ANSI, BS and other standards, and are widely used for power station equipments.

- 1 Voltage up to **11KV - 330KV**
- 2 Material **Porcelain**
- 3 Standard applied **ANSI C29.1, ANSI C29.9**



Pin Post 11006	57-4 For Thailand	IEC Class(kV)
500	953	Leakage Distance, mm
250	483	Protective Leakage Distance(mm)
12.5	12.5	Cantilever Strength(kn)
90	140	Power-freq.1 min Withstand Voltage-Dry(kV)
65	95	Power-freq.1 min Withstand Voltage-Wet(kV)
150	-	Lightning Impulse Withstand Voltage(kV)
9.4	-	Net Weight(kg)



Pin Post 11006



57-4 for Thailand

LONG ROD INSULATOR

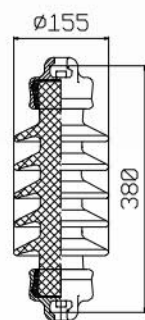
L70B/170

Long rod insulator is used for supporting wires and resisting electric current, It can be used at suspension and tension locations both as single and multiple strings as per system requirements with absolutely puncture-proof, possess high arc resistibility and are free from cement growth trouble, provide higher leakage distance with superior self-cleaning characteristics and are lighter when compared to disc insulator strings of similar voltage class. These insulators are useful for reducing the width of the right of way with consequential economy in the design of the overhead line.

1 Voltage up to
11KV-36KV

2 Material
Porcelain

3 Standard applied
IEC60383



L70B/170

IEC Class

550 Creepage Distance(mm)

70 Mechanical Failing Load(kn)

56 Tensile Failing Load(kn)

16B Coupling Size

70k/3timrs Temperature Cycle

180Mpa.h Porosity Test

70 Power Frequency withstand Voltage(kV)

170 Lightning Impulse Withstand Voltage(kV)

9.0 Net Weight(kg)



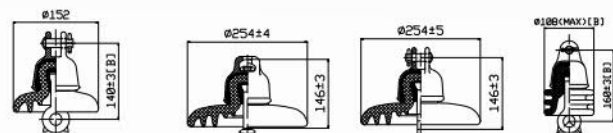
Long Rod Insulator

SUSPENSION INSULATOR

52 SERIES

Suspension insulators are widely apply for higher voltage that beyond 33KV to provide insulation due to its shirt surface construction design . Each unit has a single glass or porcelain shell bonded to a steel cap (above) and a steel pin (below). By using different numbers of discs, a suspension string can be made suitable for any voltage level.Meanwhile ,If any one of the disc insulators in a suspension string is damaged, it can be replaced much easily.

- 1 Voltage up to **6KV - 33KV**
- 2 Material **Porcelain**
- 3 Standard applied **ANSI C29.1, ANSI C29.2, IEC60383, IEC60305**



52-1	52-3	52-4	52-9	ANSI Class
178	292	292	171	Creepage Distance(mm)
44	67	67	44	Combined M & E Strength, kn
5	6	6	5	Impact Strength(n-m)
22	33.5	33.5	22	Routine Proof Test Load(kn)
27	44	44	27	Time Load Test Value(kn)
60	80	80	60	Low Frequency Flashover Voltage-Dry(kV)
30	50	50	30	Low Frequency Flashover Voltage-Wet(kV)
100	125	125	100	Critical Impulse Flashover Voltage-Pos.,(kV)
100	130	130	90	Critical Impulse Flashover Voltage-Neg.,(kV)
80	110	110	80	Low Frequency Puncture Voltage(kV)
7.5	10	10	7.5	Test Voltage to Ground(kV)
50	50	50	50	Maximum RIV at 1000KHZ(μ v)
2.5	4.6	4.6	2.5	Net Weight(kg)



**INSULATOR
FITTING**

NLD / NLL
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QH-7 / Q-7
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U-7 / Ball Hook / W-7A
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U Bolt
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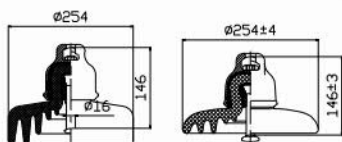


SUSPENSION INSULATOR

ANTI-FOG TYPE AND GLASS XP&XHP SERIES

Suspension insulators are widely apply for higher voltage that beyond 33KV to provide insulation due to its shirt surface construction design . Each unit has a single glass or porcelain shell bonded to a steel cap (above) and a steel pin (below). By using different numbers of discs, a suspension string can be made suitable for any voltage level.Meanwhile ,If any one of the disc insulators in a suspension string is damaged, it can be replaced much easily.

- | | | |
|---|---------------------------------------|--|
| 1 Voltage up to
6KV - 33KV | 2 Material
Porcelain | 3 Standard applied
ANSI C29.1, ANSI C29.2,
IEC60383, IEC60305 |
|---|---------------------------------------|--|



XHP-70 (Anti-fog)

XP-70

		Specis
16B	16B	Coupling Size
432	292	Creepage Distance(mm)
70	70	Combined M & E Strength(kn)
28	28	Routine Proof Test Load(kn)
90	78	Power Frequency Flashover Voltage-Dry(kV)
50	45	Power Frequency Flashover Voltage-Wet(kV)
125	120-125	50% Impulse Flashover Voltage(kV)
80	70	Power Frequency Withstand Voltage-Dry(kV)
45	40	Power Frequency Withstand Voltage-Wet(kV)
115	110	Impulse Withstand Voltage(kV)
120	110	Power Frequency Puncture Voltage(kV)
6.5	4.6	Net Weight(kg)



XHP-70



**INSULATOR
FITTING**

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QH-7 / Q-7
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U-7 / Ball Hook / W-7A
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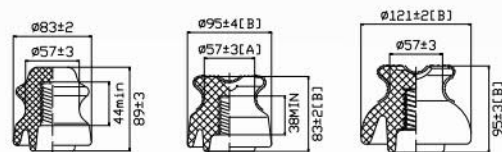
U Bolt
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PIN INSULATORS

55 SERIES FOR ANSI CLASS

Pin Insulator is earliest developed overhead insulator, but still popularly used in power network up to 36KV system, it is single stag. Two insulators cannot be fixed together for higher voltage application, Conductor is fixed on the top of the insulator by binding and metallic fixing arrangement provided only on bottom end of the insulator.

- 1 Voltage up to **4KV - 12KV**
- 2 Material **Porcelain**
- 3 Standard applied **ANSI C29.1, ANSI C29.5**



55-1	55-2	55-3	ANSI Class
102	127	178	Creepage Distance(mm)
57	86	114	Dry Arcing Distance(mm)
102	102	127	Main Pin Length(mm)
13	11	11	Cantilever Strength(kn)
35	45	55	Low Frequency Flashover Voltage-Dry(kV)
20	25	30	Low Frequency Flashover Voltage-Wet(kV)
50	70	90	Critical Impulse Flashover Voltage-Pos.,(kV)
70	85	110	Critical Impulse Flashover Voltage-Neg.,(kV)
50	70	90	Low Frequency Puncture Voltage(kV)
5	5	10	Test Voltage to Ground(kV)
50	50	50	Maximum RIV at 1000KHZ(μ v)
0.5	0.65	1	Net Weight(kg)



**INSULATOR
FITTING**

Spindle
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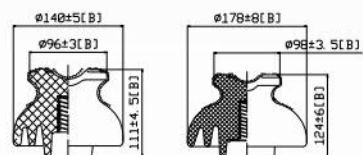


PIN INSULATORS

55 SERIES

Pin Insulator is earliest developed overhead insulator, but still popularly used in power network up to 36KV system, it is single stag. Two insulators cannot be fixed together for higher voltage application, Conductor is fixed on the top of the insulator by binding and metallic fixing arrangement provided only on bottom end of the insulator.

- 1 Voltage up to **4KV - 12KV**
- 2 Material **Porcelain**
- 3 Standard applied **ANSI C29.1, ANSI C29.5**



55-4	55-5	ANSI Class
229	305	Creepage Distance(mm)
127	159	Dry Arcing Distance(mm)
127	152	Main Pin Length(mm)
13	13	Cantilever Strength(kn)
65	80	Low Frequency Flashover Voltage-Dry(kV)
35	45	Low Frequency Flashover Voltage-Wet(kV)
105	130	Critical Impulse Flashover Voltage-Pos.,(kV)
130	150	Critical Impulse Flashover Voltage-Neg.,(kV)
95	115	Low Frequency Puncture Voltage(kV)
10	15	Test Voltage to Ground(kV)
50	100	Maximum RIV at 1000KHZ(μv)
1.65	2.75	Net Weight(kg)



55-4



55-5



**INSULATOR
FITTING**

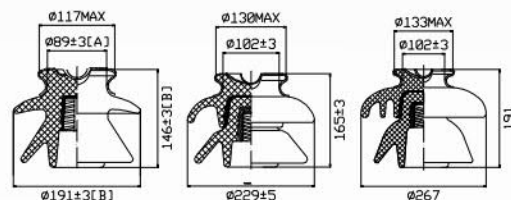
Spindle
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PIN INSULATOR

56 SERIES

Pin Insulator is earliest developed overhead insulator, but still popularly used in power network up to 36KV system, It is single stag ,Two insulators cannot be fixed together for higher voltage application, Conductor is fixed on the top of the insulator by binding and metallic fixing arrangement provided only on bottom end of the insulator.

- 1 Voltage up to 11KV - 36KV
- 2 Material Porcelain
- 3 Standard applied ANSI C29.1, ANSI C29.6



56-1	56-2	56-3	Dimension: mm
330	432	533	ANSI Class
152	178	203	Creepage Distance, (mm)
11	13.2	13.2	Min. pin length, (mm)
95	110	125	Cantilever Strength, (kn)
60	70	80	Power Frequency Flashover Voltage-Dry(kV)
150	175	200	Power Frequency Flashover Voltage-Wet(kV)
190	225	265	Critical Impulse Flashover Voltage-Pos., (kV)
130	145	165	Critical Impulse Flashover Voltage-Neg., (kV)
15	22	30	Power Frequency Puncture Voltage, (kv)
100	100	200	Test Voltage to Ground, (kv)
			Maximum RIV at 1000KHZ, (μ v)



INSULATOR
FITTING

Spindle
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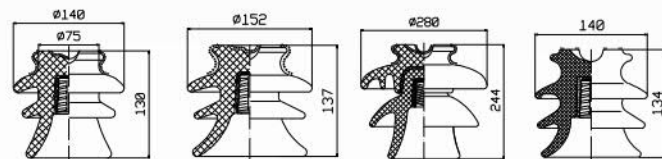


PIN INSULATOR

CN45-2 & P-11 SERIES

Pin Insulator is earliest developed overhead insulator, but still popularly used in power network up to 36KV system,It is single stag ,Two insulators cannot be fixed together for higher voltage application,Conductor is fixed on the top of the insulator by binding and metallic fixing arrangement provided only on bottom end of the insulator.

- 1 Voltage up to **11KV-36KV**
- 2 Material **Porcelain**
- 3 Standard applied **IEC60383**



P-11-Y	P-15-Y	P-33-Y	CN45-2	BS Class
254	298	630	265	Creepage Distance(mm)
102	133	360	-	Dry Arcing Distance(mm)
11	11	13	11	Cantilever Strength(kn)
75	80	135	75	Power Frequency Flashover Voltage-Dry(kV)
50	55	95	45	Power Frequency Flashover Voltage-Wet(kV)
115	130	180	100	Critical Impulse Flashover Voltage-Pos.,(kV)
150	175	290	110	Critical Impulse Flashover Voltage-Neg.,(kV)
65	70	110	80	One Min Power Frequency Withstand Voltage-Dry(kV)
40	50	75	45	One Min Power Frequency Withstand Voltage-Wet(kV)
90	110	170	-	Impulse Withstand Voltage(kV)
15	15	30	-	Test Voltage to Ground(kV)
8000	8000	16000	-	Maximum RIV at 1000KHZ(μ v)
150	150	210	135	Power Frequency Puncture Voltage(kV)
1.8	2	11	2	Net Weight(kg)



P-11-Y



P-15-Y



P-33-Y



CN45-2



**INSULATOR
FITTING**

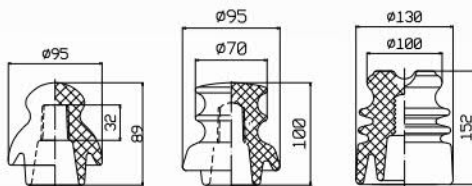
Spindle
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DIN PIN INSULATORS

N95 SERIES

Pin Insulator is earliest developed overhead insulator, but still popularly used in power network up to 36KV system, It is single stag ,Two insulators cannot be fixed together for higher voltage application, Conductor is fixed on the top of the insulator by binding and metallic fixing arrangement provided only on bottom end of the insulator.

- 1 Voltage up to **11KV - 36KV**
- 2 Material **Porcelain**
- 3 Standard applied **DIN40680**



N95	N95-2	N95-4	ANSI Class
140	160	318	Leakage Distance, mm
12.5	12.5	13.6	Minimum Breaking Load, kn
10	10	50	One Minute Wet Withstand Voltage(kV)

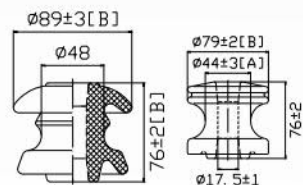


SPOOL & SHACKLE INSULATORS

ED & 53 SERIES

The shackle insulator or spool insulator is usually used in low voltage distribution network. It can be used both in horizontal and vertical position. The tapered hole of the spool insulator distributes the load more evenly and minimizes the possibility of breakage when heavily loaded. The conductor in the groove of shackle insulator is fixed with the help of soft binding wire.

- 1 Voltage up to **0.4KV**
- 2 Material **Porcelain**
- 3 Standard applied **IEC60383-1, ANSI C29.3, ANSI C29.1**



ED-2B	53-2	Specis
12.7	13	Mechanical Failing Load(kn)
25	25	Power Frequency Flashover Voltage-Dry(kv)
12	-	Power Frequency Flashover Voltage-Wet(kv)
-	12	Power Frequency Wet Flashover Voltage Vertical(kv)
-	15	Power Frequency Wet Flashover Voltage Horizontal(kv)
0.5	0.5	Net Weight(kg)
BS CLASS	ANSI CLASS	Standard



**INSULATOR
FITTING**

D Iron
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Machine Bolt
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ED-2B



53-2

STRAIN INSULATORS

54 SERIES

Strain insulator are used in guy cables supporting utility poles, to prevent any high voltage on the cable due to leakage currents or an electrical fault on the pole from reaching the lower part of the cable which is accessible by the public. They are also used in guys supporting radio antenna masts. This design has two mechanical advantages. The ceramic is under compression rather than tension, which takes advantage of ceramic's greater compressional strength; and if the ceramic breaks the two wire loops are still linked and will not fall to the ground.

1

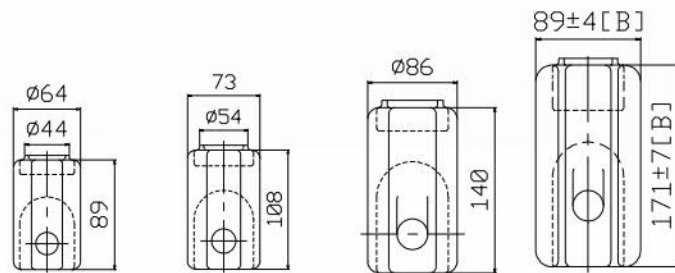
Voltage up to
0.4kV-36kV

2

Material
Porcelain

3

Standard applied
ANSI C29.4, ANSI C29.1



54-1

54-2

54-3

54-4

ANSI Class

41	48	57	76	Creepage Distance(mm)
44	53	89	89	Mechanical Failing Load, kn
25	30	35	40	Low Frequency Flashover Voltage-Dry(kV)
12	15	18	23	Low Frequency Flashover Voltage-Wet(kV)
0.5	0.65	1.2	2.2	Net Weight(kg)

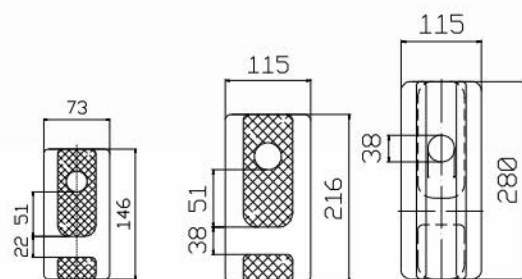


STRAIN INSULATORS FOR LINES

GY SERIES

Strain insulator are used in guy cables supporting utility poles, to prevent any high voltage on the cable due to leakage currents or an electrical fault on the pole from reaching the lower part of the cable which is accessible by the public. They are also used in guys supporting radio antenna masts. This design has two mechanical advantages. The ceramic is under compression rather than tension, which takes advantage of ceramic's greater compressional strength; and if the ceramic breaks the two wire loops are still linked and will not fall to the ground.

- 1 Voltage up to **0.4kV-36kV**
- 2 Material **Porcelain**
- 3 Standard applied **ANSI C29.4, ANSI C29.1**



GY2	GY3	GY4	ANSI Class
71	160	222	Tensile Strength (kn)
15	20	30	Low Frequency Wet Flashover Voltage(kV)
1.1	4.3	5.9	Net Weight(kg)



GY-2
White



GY-2
Blue



GY-3
Blue



GY-3
Brown



GY-4

TELEPHONE LINE INSULATORS

RM SERIES

Telegraph insulator was used for telephone line insulation and perfect for a garden fencing or displaying on a window ledge.

1

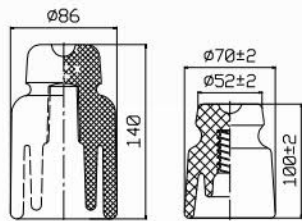
Voltage up to
0.44kV-0.6kV

2

Material
Porcelain

3

Standard applied
IEC60383



RM-1

RM-2

		VDE Class
298	215	Leakage Distance(mm)
50000	40000	Insulation Resistance(MΩ)
1.1	0.5	Net Weight(kg)



RM-1



RM-2