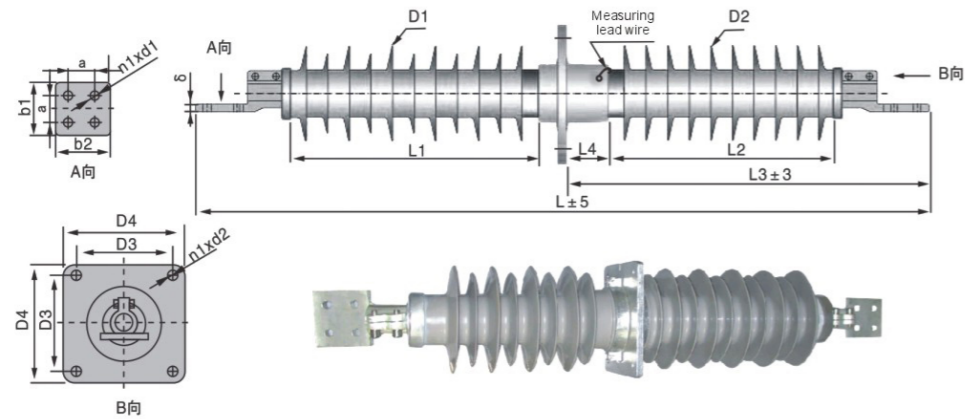


Outdoor High-voltage Composite Insulator

FCGW Series Through Wall Bushing

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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 discharge under the rated voltage	< 10pC	
Bending resistant test load	1000-3000N	1600-3150N
Minimum nominal creepage distance	31mm/kV	

• Main technical parameters

Type	Main dimension (mm)	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 diameter 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	

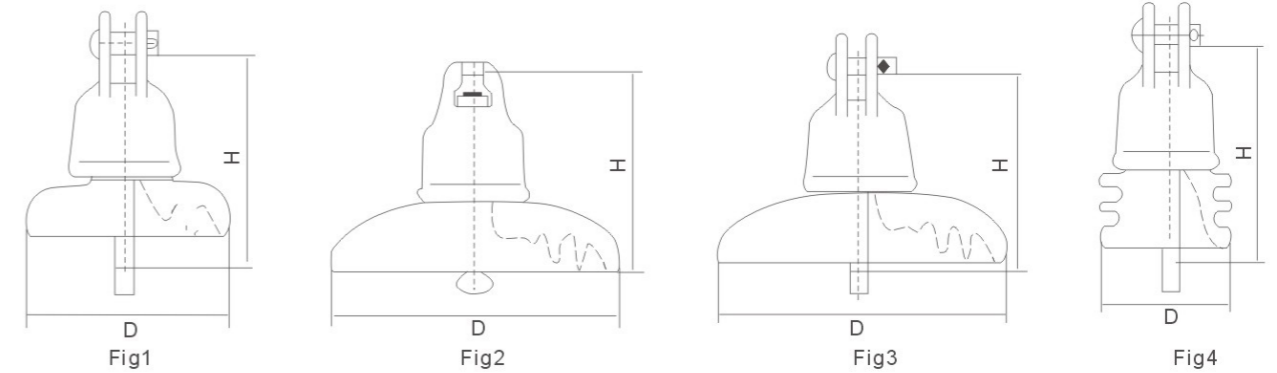
Note: the overall dimension of product in this Table is recommended; all dimensions may be designed according to the users' requirements. Only one kind of CT length is listed in this Table CT length may be the users according to the requirements of the products. Relevant dimension may variation as requested.

Porcelain Composite Insulator

ANSI Porcelain Disc Suspension Insulators

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ANSI Porcelain Disc Suspension Insulators



• 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	Radio Influence Voltage	
		D (max)	H					Power Frequency	Critical Impulse	Test Voltage To Ground KV	Max Riv At 1 Mhz μV			
		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

Porcelain Composite Insulator

ANSI Low/Medium Voltage Pin Type Insulators

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ANSI Low/Medium Voltage Pin Type Insulators



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

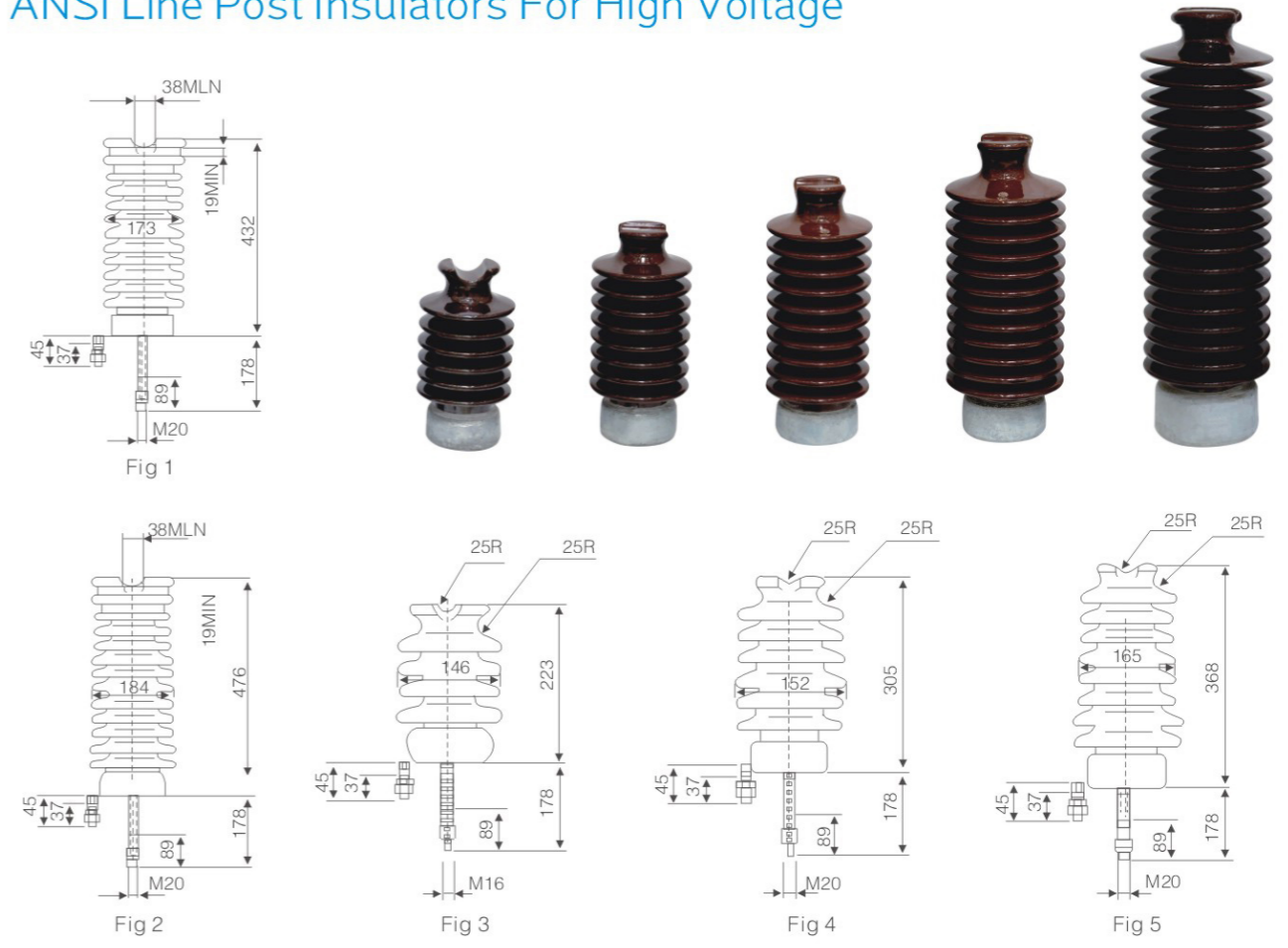
Class ANSI	Main Dimension in (mm)			Leakage Distance in (mm)	Min. Pin Length in (mm)	Cantilever Strength 1b (KN)	Flashover Voltage				Power Frequency Puncture Voltage KV	Radio Influence Voltage	
	D (max)	H	h				Power Frequency		Test Voltage To Ground KV	Max Riv At 1 Mhz μ V			
							Dry kV	Wet kV				Positive kV	Negative kV
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

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ANSI Line Post Insulators For High Voltage



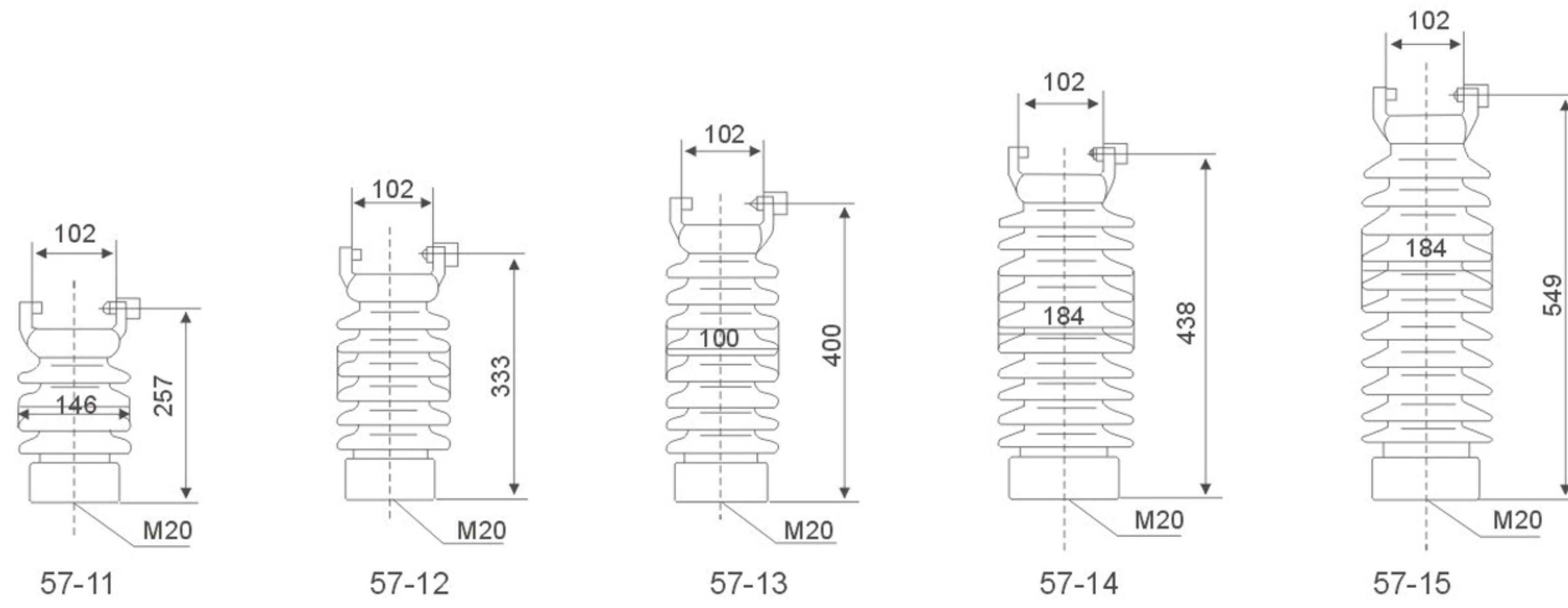
• Main technical parameters of ANSI line post insulators for high voltage

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
Cantilever strength KN	12.5	12.5	12.5	12.5	12.5
Low frequency flashover voltage	Dry flashover KV	80	110	12.5	150
	Wet flashover KV	60	85	100	125
Critical impulse flashover voltage	positive KV	130	180	210	255
	Negative KV	155	205	260	340
Radio influence voltage data	Test voltage to ground KV	15	22	30	44
At 1000KHZ Max. RIV μ V		100	100	200	200
	Weight kg	5	9.8	12	16

Porcelain Composite Insulator

ANSI Line Post Insulators For High Voltage

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Electric Professional
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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 flashover voltage	Dry flashover(kV)	80	110	125	150	175
	Wet flashover(kV)	60	85	100	125	150
Critical impulse flashover voltage	positive(kV)	130	180	210	255	290
	Negative (kV)	155	205	260	340	380
Radio influence votage data	Test voltage to ground (kV)	15	22	30	44	44
	At 1000K Hz Max.RIV(uV)	100	100	200	200	200
Weight(kg)		6.8	10	11.8	15.9	18.6

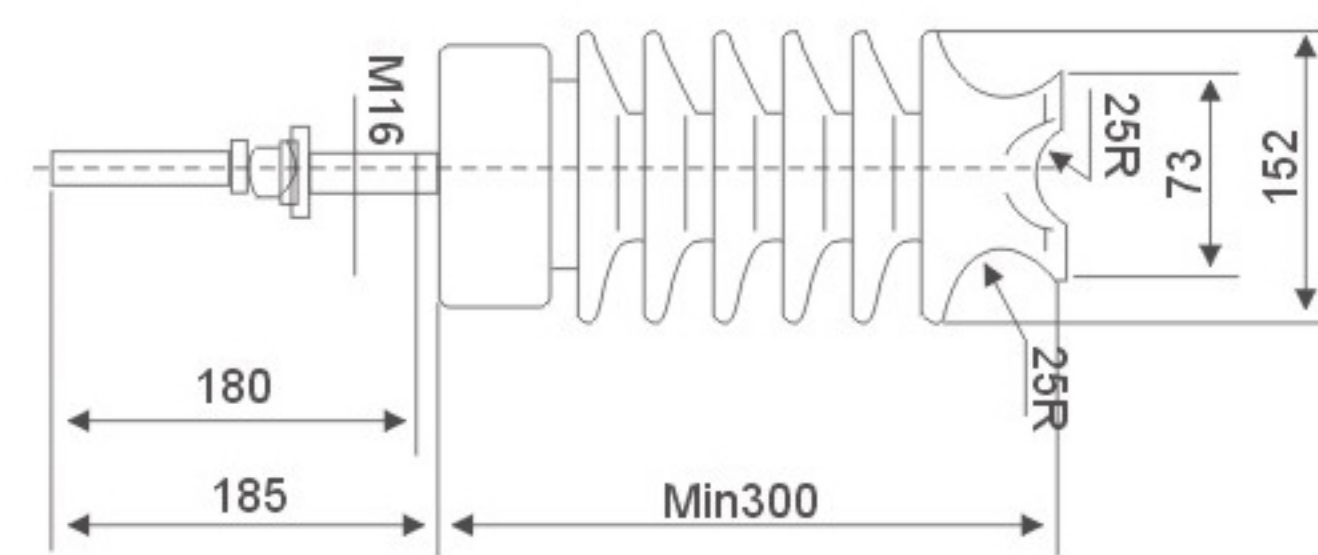


Fig1

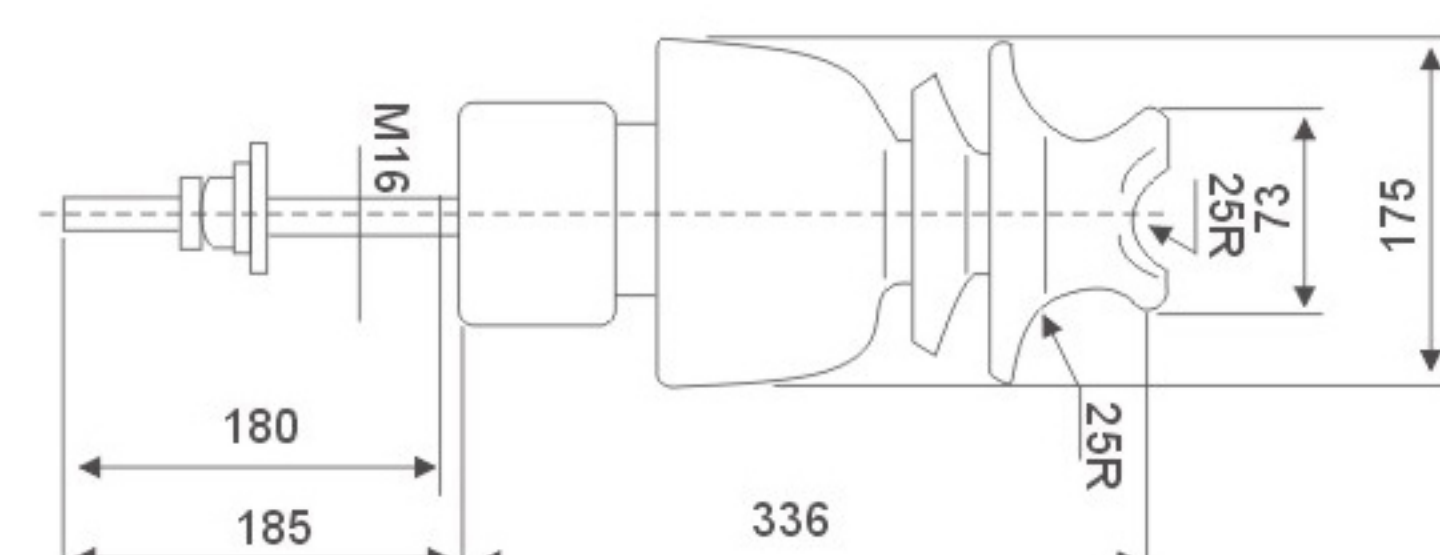


Fig2

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 Withstand voltage	Dry(kV)	90	90
	Wet(kV)	65	65
Impulse withstand voltage (kv)		150	150
Radio influence Voltage data	Teat voltage to ground (kv)	22	22
	Max.Riv at 1000kh	100	100
Net weight, each, approx.,kg		9.2	10

Composite Insulator

HDPE Insulator

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55-3

55-5

55-4H

56-1

55-7



55-5-VEE



55-6-VEE



15kv cablespace



15KV-ARM

• Maintechnical 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 customer's specific requirements.