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Chapter 2

Pin Insulator Properties

2.3 Pin insulator neck types

By Orient Power

Pin insulator neck types



Inches	Millimeters	Inches	Millimeters
1/8	3	4	102
1/4	6	4-1/16	103
1/2	13	4-3/8	111
9/16	14	4-1/2	114
5/8	16	4-3/4	121
3/4	19	4-7/8	124
7/8	22		
15/16	24	5	127
1	25.4	5-1/2	140
1-1/16	27	6	152
1-1/8	29	6-1/4	159
1-1/4	30		
1-3/8	35	7	178
1-7/16	37	7-1/2	191
1-1/2	38		
1-5/8	41	8	203
1-3/4	44	8-3/8	213
2	51	9	229
2-3/16	56		
2-1/4	57	12	305
2-7/16	62		
2-1/2	64	15	381
2-9/16	70		
2-7/8	73		
3-1/16	78		
3-1/8	79		
3-1/4	83		
3-3/8	86		
3-1/2	89		
3-3/4	95		

Porcelain pin insulator is one of the high voltage insulator which is usually used in the distribution line .

And the voltage range is from 6kv to 36kv.

Standard of ceramic pin insulator:

ANSI C29.5:

ANSI55-1, ANSI55-2 ANSI55-3, NSI55-4,

ANSI55-5, ANSI55-6, ANSI55-7

ANSI C29.6:

ASNI56-1, ASNI56-2 ASNI56-3 ASNI56-4

ASNI56-5

Porcelain insulator have different necks for different type, and the neck type usually have: A neck, C neck, F neck, J neck, K neck, N neck, each neck size as below:

Designation Letter	Diameter (inches)	Groove-Height Relationship as Applicable (inches)	
		Minimum	Maximum
A	1-3/4 ± 1/8	--	--
C	2-1/4 ± 1/8	9/16	7/8
F	2-7/8 ± 1/8	9/16	7/8
J	3-1/2 ± 1/8	1/4	5/8
K	4 ± 1/8	1/4	5/8
N	6 ± 1/8	9/16	7/8

You can get the detail inches in the left picture.

For the neck design, if high-resistance coatings are applied to the insulator, such coating shall be considered as effective leakage surfaces, and the distance over them shall be included in the leakage distance.

Neck type of each ANSI type:

- ✧ C neck: ANSI55-1, ANSI55-2 ANSI55-3
- ✧ F neck: ANSI55-4, ANSI55-5
- ✧ J neck: ANI55-6, ANSI55-7, ANSI56-1
- ✧ K neck: ANSI56-2, ANSI56-3



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