

Dalian Hivolt

# POWER SYSTEM

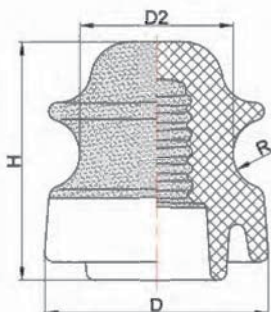
## NOTES:

- 1. Surfaces coated with semi-conductive glaze considered as effective leakage surfaces and the distance over them is included in the leakage distance.

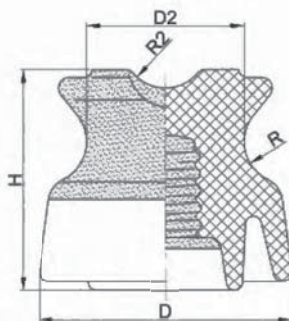


## 3.1 Pin type insulators ANSI C29.5

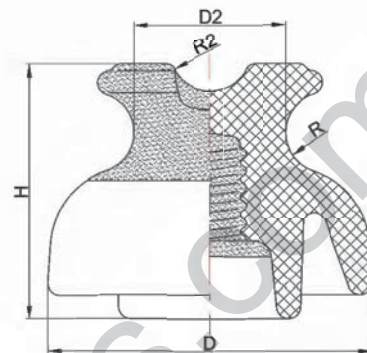
ANSI class			Unit	55-1		55-2	
Figure No.				3.1.1		3.1.2	
Insulator type				Plain	Radio Freed	Plain	Radio Freed
Neck Designation				C		C	
Rating Voltage (U.S.Practice)			kV	7.2		7.2	
Creepage distance			inches	4		5	
Dry-arcing distance			inches	2-1/4		3-3/8	
Dimensions	H	inches	2-7/8		3-1/4		
	D	inches	3-1/4		3-3/4		
	D2	inches	2-1/4		2-1/4		
	R	inches	1/2		5/8		
	R2	inches	/		5/8		
Cantilever strength			pounds	3000		2500	
Low-frequency flashover voltage	dry	kV	35	35	50	45	
	wet	kV	20	20	25	25	
Critical impulse flashover voltage	positive	kV	50	50	75	70	
	negative	kV	70	70	95	85	
Low-frequency puncture voltage			kV	50		70	
Radio-Influence Voltage Data	test voltage,rms to ground	kV	5	5	5	5	
	maximum RIV at 1000kHz	μ V	2500	50	2500	50	
Net weight			pounds	1.2		1.4	
Applicable Standard				ANSI C29.5			



■ FIG 3.1.1



■ FIG 3.1.2



■ FIG 3.1.3

## 3.1 Pin type insulators ANSI C29.5

55-3		55-4		55-5		55-6		55-7	
3.1.3									
Plain	Radio Freed	Plain	Radio Freed	Plain	Radio Freed	Plain	Radio Freed	Plain	Radio Freed
C		F		F		J		J	
13.2		13.2		13.2		15/25		15/25	
7		9		12		15		15	
4-1/2		5		6-1/4		8		8	
3-3/4		4-3/8		4-7/8		5-1/2		5-1/2	
4-3/4		5-1/2		7		8-3/8		8-3/8	
2-1/4		2-7/8		2-7/8		3-1/2		3-1/2	
9/16		9/16		9/16		5/8		5/8	
9/16		1		1		1		1	
2500		3000		3000		3000		3000	
65	55	70	65	85	80	100		100	
35	30	40	35	45	45	50		50	
100	90	110	105	140	130	150		150	
130	110	140	130	170	150	170		170	
90		95		115		135		135	
10	10	10	10	15	15	22	22	22	22
5500	50	5500	50	8000	100	8000	100	8000	100
2.4		3.7		6.4		/		/	
ANSI C29.5									

# POWER SYSTEM

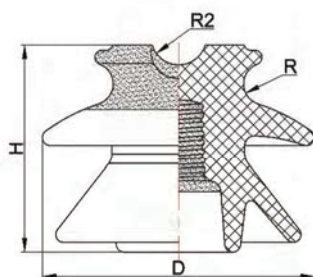


FIG 3.2.1

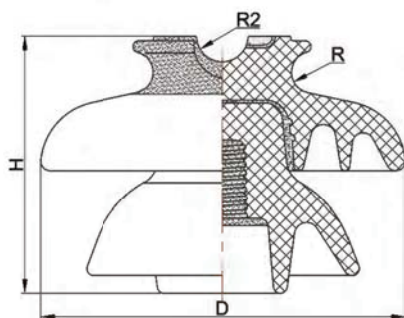


FIG 3.2.2

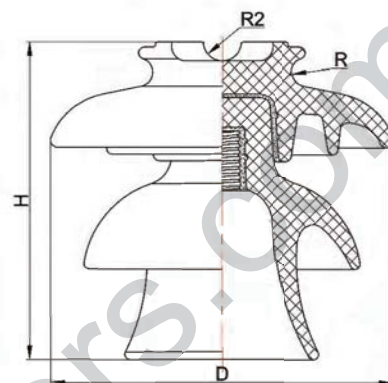


FIG 3.2.3

## 3.2 Pin type insulators ANSI C29.6

ANSI class			Unit	56-1	56-2	56-3	56-4	56-5
Figure No.				3.2.1	3.2.2		3.2.3	
Neck Designation				J	K	K	/	/
Voltage Rating (U.S.Practice)			kV	23	23	34.5	46	69
Creepage distance			inches	13	17	21	27	34
Dry-arcing distance			inches	7	8-1/4	9-1/2	11-1/4	14
Main dimensions	H		inches	5-3/4	6-1/2	7-1/2	9-1/2	12-1/2
	D		inches	7-1/2	9	10-1/2	12	13-1/2
	R		inches	9/16	9/16	9/16	9/16	9/16
	R2		inches	3/4	3/4	3/4	3/4	3/4
Cantilever strength			pounds	2500	3000	3000	3000	3000
Low-frequency flashover voltage	dry		kV	95	110	125	140	175
	wet		kV	60	70	80	95	125
Critical impulse flashover voltage	positive		kV	150	175	200	225	270
	negative		kV	190	225	265	310	340
Low-frequency puncture voltage			kV	130	145	165	185	225
Radio-Influence Voltage Data	test voltage,rms to ground		kV	15	22	30	30	44
	maximum RIV at 1000kHz		μ V	100	100	200	200	200
Net weight			pounds	7.7	11.0	17.6	24.3	30.9
Applicable Standard				ANSI C29.6				