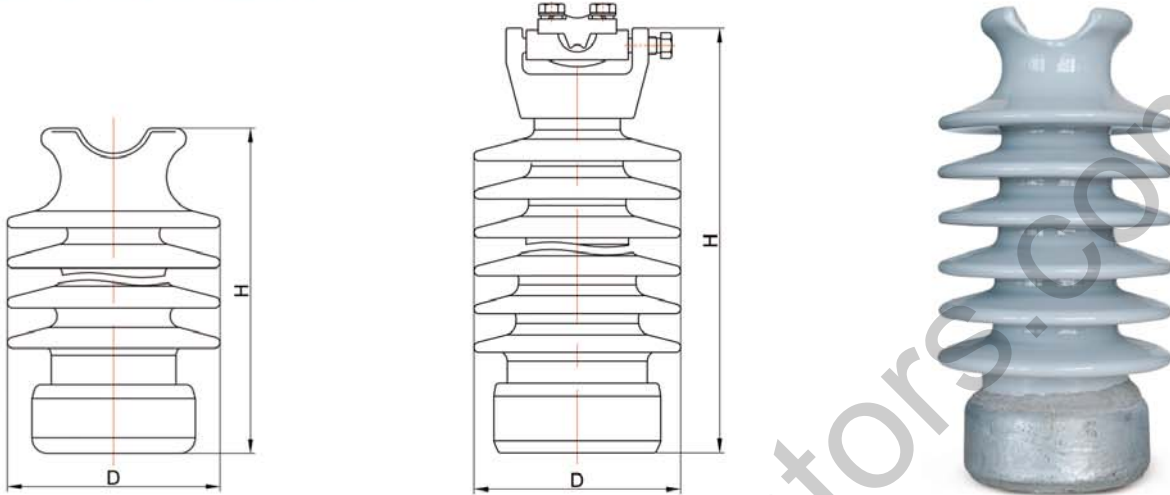


POWER SYSTEM

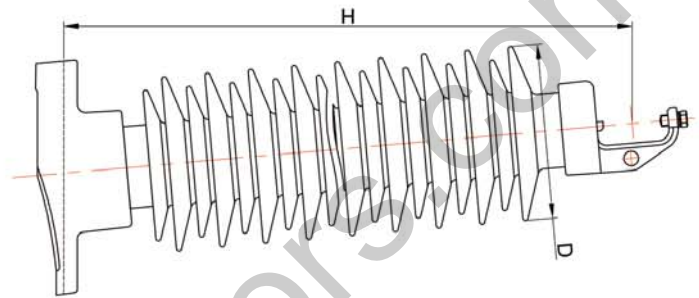
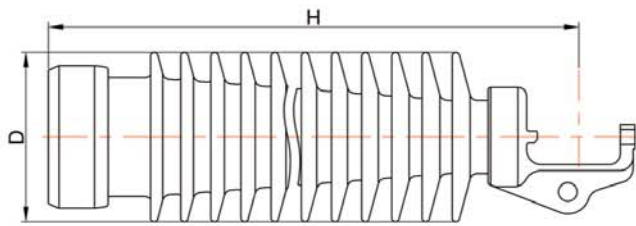


▪ FIG 2.1.1

▪ FIG 2.1.2

2.1 Line post insulators (<100kV) ANSI standard

ANSI designation	Unit	57-1	57-2	57-3	57-4	57-5	57-6	57-11	57-12	57-13	
Figure No.		2.1.1						2.1.2			
Neck type		F	F	F	N	N	N	-	-	-	
Height "H"	inches	8-3/4	12	14-1/2	17	20	23	10-5/8	13-3/4	16-1/2	
Max. Shed diameter "D"	inches	5-3/4	5-3/4	6	7	7	7-5/16	5-3/4	6	6	
Creepage distance	inches	14	22	29	40	45	53	14	22	29	
Dry arcing distance	inches	6-1/2	9-1/2	12-1/4	14-1/2	17-1/4	19-1/4	6-1/2	9-1/2	12-1/4	
Thread	inches	3/4-10 UNC	3/4-10 UNC	3/4-10 UNC	3/4-10 UNC	3/4-10 UNC	7/8-9 UNC	3/4-10 UNC	3/4-10 UNC	3/4-10 UNC	
Cantilever strength	pounds	2800	2800	2800	2800	2800	2800	2800	2800	2800	
Low frequency flashover voltage	dry	kV	80	110	125	150	175	200	80	110	125
	wet	kV	60	85	100	125	150	170	60	85	100
Critical impulse flashover voltage	positive	kV	130	180	210	255	290	330	130	180	210
	negative	kV	155	205	260	340	380	425	155	205	260
Radio influence voltage data	Test voltage, rms to ground	kV	15	22	30	44	44	44	15	22	30
	Max. RIV, at 1000kHz	μ V	100	100	200	200	200	200	100	100	200
Net weight	pounds	12	18	23	37	47	52	16	23	27	
Applicable standard ANSI		ANSI C29.7									



▪ FIG 2.1.3

▪ FIG 2.1.4

2.1 Line post insulators (<100kV) ANSI standard

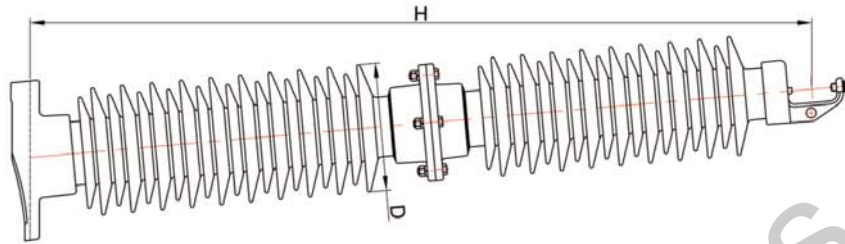
57-14	57-15	57-16	57-21	57-22	57-23	57-24	57-25	57-26	57-31	57-32	57-33	57-34	57-35	57-36
2.1.2			2.1.3						2.1.4					
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	21-5/8	24-1/4	11-3/8	14-1/2	17-1/4	19-3/4	22-3/8	25	11-3/4	14-7/8	17-5/8	19-3/4	22-3/8	25
6-3/4	6-3/4	7-1/4	5-3/4	6	6	6-3/4	6-3/4	7-1/4	5-3/4	6	6	6-3/4	6-3/4	7-1/4
40	45	53	14	22	29	40	45	53	14	22	29	40	45	53
14-1/2	17-1/4	19-1/4	6-1/2	9-1/2	12-1/4	14-1/2	17-1/4	19-1/4	6-1/2	9-1/2	12-1/4	14-1/2	17-1/4	19-1/4
3/4-10 UNC	3/4-10 UNC	3/4-9 UNC	3/4-10 UNC	3/4-10 UNC	3/4-10 UNC	3/4-10 UNC	3/4-10 UNC	7/8-9 UNC	-	-	-	-	-	-
2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800
150	175	200	80	110	125	150	175	200	80	110	125	150	175	200
125	150	170	70	100	115	135	160	180	70	100	115	135	160	180
255	290	330	130	180	210	255	290	330	130	180	210	255	290	330
340	380	425	155	205	260	340	380	425	155	205	260	340	380	425
44	44	44	15	22	30	44	44	44	15	22	30	44	44	44
200	200	200	100	100	200	200	200	200	100	100	200	200	200	200
36	42	51	17	23	29	37	43	53	21	27	33	43	55	62
ANSI C29.7														

POWER SYSTEM



2.2 Line post insulators ANSI standard ($\geq 100\text{kV}$)

Wood pole mounting		Unit	H72459	H70147	H70148	H70149	H305169
Figure No.			2.2.1				
Usual line voltage(kV)		kV	115/138	115/138	115/138	115/138	115/138
Length "H"		inches	42.25	48.5	54	61	47
Max. sheds diameter "D"		inches	8.5	8.5	9	9.25	-
Min. Creepage distance		inches	82	100	110	130	82
Dry arcing distance		inches	36.25	42.25	48.25	54.25	36.25
Cantilever strength		pounds	2800	2800	2500	2800	4000
Tension strength		pounds	5000	5000	5000	5000	10000
Low frequency flashover voltage	dry	kV	325	380	435	458	325
	wet	kV	290	330	390	435	290
Critical impulse flashover voltage	Pos	kV	525	610	695	780	525
	Neg	kV	660	780	900	1000	660
Radio influence voltage data	Test voltage, rms to ground	kV	88	88	88	88	88
	Max. RIV, at 1000kHz	μV	100	100	100	100	100
Net weight,each		pounds	154	160	170	185	250
Applicable Standard			ANSI C29.7				



▪ FIG 2.2.1

2.2 Line post insulators ANSI standard (≥100kV)

H305170	H79135	H79136	H76072-A	H76073-A	H76074-A	H305248	H305249	H303070
2.2.1								
115/138	115/138	115/138	161/230	161/230	161/230	161/230	161/230	161/230
50	58	62	73	79.75	84.75	73.25	80	85
-	-	-	-	-	-	-	-	-
100	110	130	138	154	167	138	154	167
42.25	48.25	54.25	59	65	71	59	65	71
4000	4000	3600	2800	2800	2800	2800	2800	2800
10000	10000	10000	5000	5000	5000	5000	5000	5000
380	435	485	540	590	640	540	590	640
330	390	435	485	530	575	485	530	575
610	695	780	860	945	1025	860	945	1025
780	900	1000	1100	1200	1300	1100	1200	1300
88	88	88	103	103	103	103	103	103
100	100	100	100	100	100	100	100	100
256	260	265	315	337	359	327	349	371
ANSI C29.7								