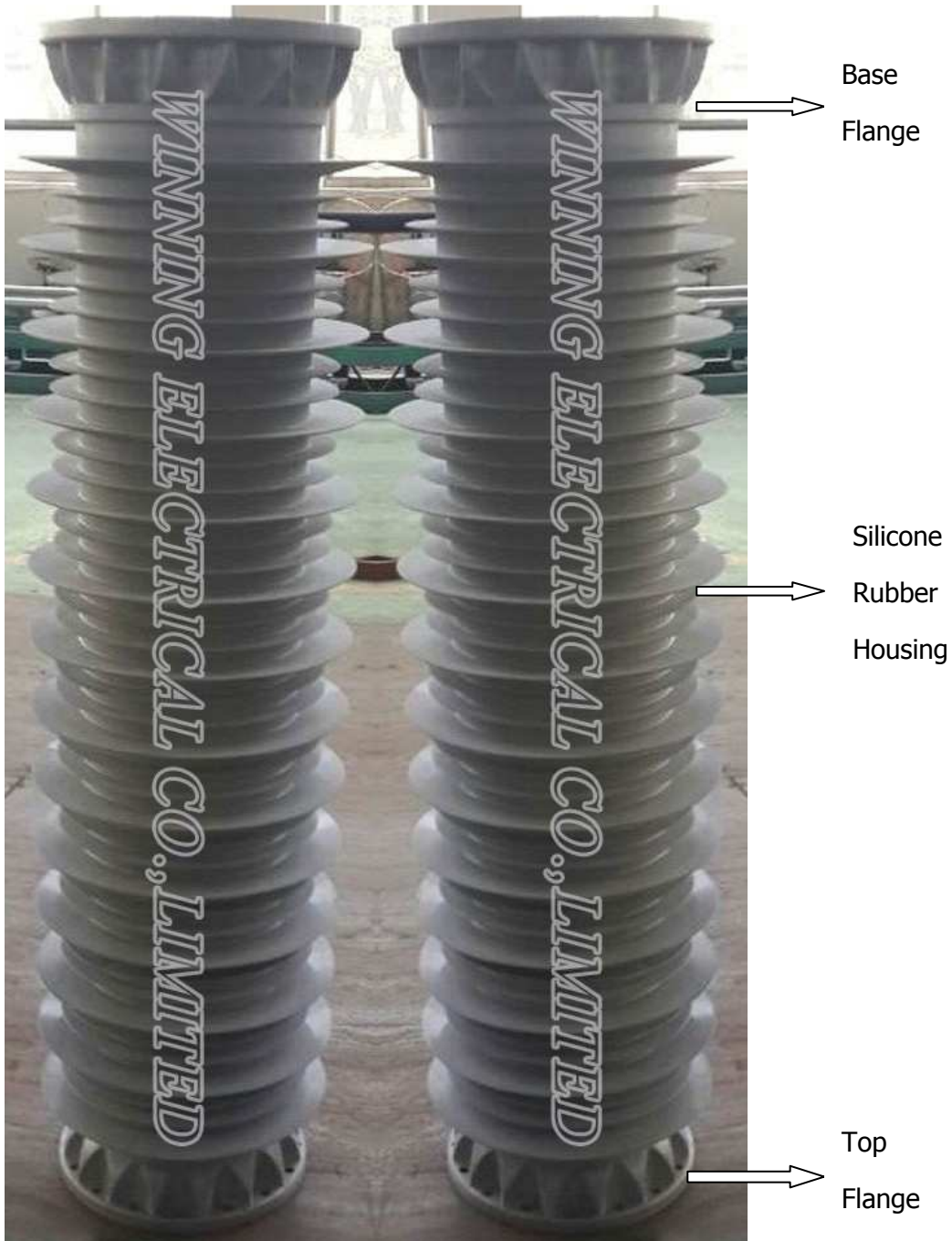
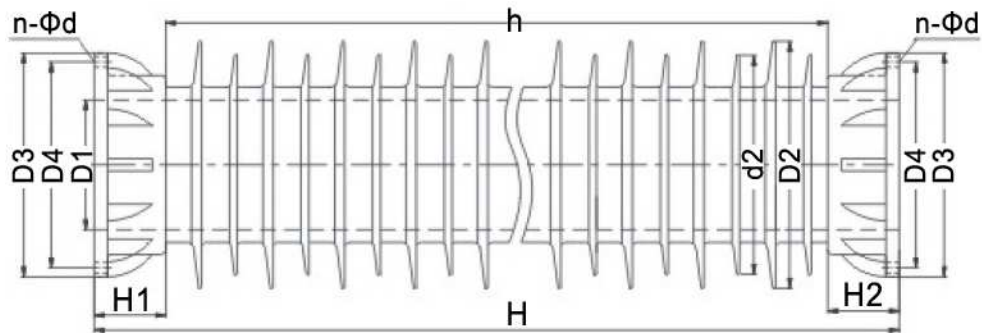




### Hollow Core Insulator

Hollow core composite insulator is made of a high strength epoxy impregnated glass fiber tube, corrosion resistant flanges and tracking resistant silicone weather sheds. Hollow core insulator has better performances comparing with ceramic counterparts, especially under special requirements and operation environments. WINNING® now supplies hollow core composite insulators up to 500kV, but is able to design and accept higher voltage hollow insulators according to requirements and drawings.





### Electrical Specifications

No.	Model	Rated Vol. (kV)	Section Length H-(mm)	Leakage Distance (mm)	Specified Cantilever Load (kN)	Wet Power Frequency Withstand Vol. kV	Lightning Impulse Withstand Vol. kV	MPa
1	FHW-15	15	210	390	5	48	85	3.5
2	FHW1-15	15	330	450	5	48	85	3.5
3	FHW1-27	27	270	850	5	85	170	3.5
4	FHW2-27	27	380	1150	20	105	200	3.5
5	FHW1-35	35	465	1110	5	95	185	3.5
6	FHW2-35	35	465	1080	5	95	185	3.5
7	FHQW1-35	35	580	1300	5	110	235	3.5
8	FHW1-35	35	465	1100	5	95	185	3.5
9	FHW2-35	35	465	1080	5	95	185	3.5
12	FHW5-35	35	465	1080	5	95	185	3.5
13	FHW6-35	35	465	1110	5	95	185	3.5
15	FHQW3-35	35	608	1410	5	95	185	3.5
16	FHW-36	36	510	1490	6	70	170	2
17	FHQW1-110	110	1500	3920	15	230	550	2.1
18	FHQW2-110	110	1300	3320	15	230	550	2.1
20	FHQW4-110	110	1460	4365	15	230	550	2.6
21	FHW3-110	110	1410	4365	15	230	550	2.6
22	FHW4-110	110	1670	5010	15	230	550	2.6
23	FHW5-110	110	1490	3975	15	230	550	1.4
24	FHQW3-110	110	1500	4435	15	230	550	2.6
26	FHQW2-110	110	1200	3550	15	230	550	2.6



27	FHQW2-110	110	1360	4120	15	230	550	2.6
28	FHW2-110	110	1500	4600	15	230	550	2.6
29	FHQW5-110	110	1500	4535	6.5	230	550	0.4
30	FHQW4-110	110	1500	4635	40	230	550	3.2
31	FHW2-145	145	2010	6400	15	230	550	2.6
32	FHW3-145	145	2300	7275	15	460	1050	2.6
33	FHW2-220	220	2405	7765	15	395	950	2.6
34	FHW2-220	220	2400	7700	15	395	950	2.0
35	FHW5-220	220	2690	9015	6.5	395	950	0.4
36	FHQW4-220	220	2335	7920	40	395	950	3.2
39	FHQW4-330	330	3200	12820	52	510	1175	3.2

Custom sizes and special technical requirements can be met upon request.

### Mechanical Specifications

No.	Model	Inner Dia. D1 (mm)	Shed Dia. D2/d2 (mm)	Top/Base Flange Outer Dia. (mm)	Top/Base Flange Central Dia. D4	Top Flange Bolt Hole (mm)	Base Flange Bolt Hole (mm)	Top/Base Flange Height H-(mm)
1	FHW-15	96	Φ176/156	122×122	102×102	4-Φ11	4-Φ11	30/30
2	FHW1-15	110	Φ190/170	140×140	112×112	4-Φ11	4-Φ11	29/29
3	FHW1-27	160	Φ300/270	Φ252/260	Φ232/232	8-M10	8-Φ11	36/30
4	FHW2-27	160	Φ300/270	Φ252/260	Φ232/232	8-M10	8-M10	36/60
5	FHW1-35	135	Φ263/235	Φ228/288	Φ202/262	8-Φ12	8-Φ12	50/50
6	FHW2-35	145	Φ275/245	Φ288/288	Φ262/262	8-Φ12	8-Φ12	55/55
7	FHQW1-35	176	Φ325/295	Φ360/360	Φ330/330	6-Φ14	6-Φ14	65/65
8	FHW1-35	135	Φ263/235	Φ288/288	Φ262/262	8-Φ12	8-Φ12	50/50
9	FHW2-35	145	Φ275/245	Φ308/288	Φ282/262	8-Φ12	8-Φ12	55/55
12	FHW5-35	145	Φ275/245	Φ240/240	Φ262/262	6-Φ11	6-Φ11	55/55
13	FHW6-35	135	Φ263/235	Φ288/288	Φ220/220	8-Φ12	8-Φ12	50/50
15	FHQW3-35	176	Φ325/295	Φ240/240	140×130	6-M10	6-M10	65/65
16	FHW-36	100	Φ258	185×175	Φ230/230	4-Φ13	4-Φ13	65/65
17	FHQW1-110	145	Φ276/246	Φ250/250	Φ230/230	12-Φ12	12-Φ12	80/80
18	FHQW2-110	145	Φ276/246	Φ250/250	Φ220/410	12-Φ12	12-Φ12	80/80
19	FHQW3-110	145	Φ276/246	Φ255/250	Φ220/410	6-M12	4-22×26	110/100
20	FHQW4-110	198	Φ330/300	Φ255/530	Φ220/410	6-M12	4-22×26	110/100



21	FHW3-110	198	Φ330/300	Φ248/450	Φ220/450	6-M12	4-22×26	85/75
22	FHW4-110	198	Φ330/300	Φ255/530	Φ220/40	6-M12	4-22×26	110/100
23	FHW5-110	198	Φ330/300	Φ350/350	Φ314/314	16-Φ18	16-Φ18	90/90
24	FHQW3-110	198	Φ330/300	Φ410/410	Φ360/365	12-Φ12	12-Φ12	90/237
26	FHQW2-110	240	Φ400/336	Φ425/425	Φ385/385	16-Φ18	16-Φ18	90/90
27	FHQW2-110	240	Φ400/336	Φ425/425	Φ385/385	16-Φ18	16-Φ18	90/90
28	FHW2-110	240	Φ400/336	Φ344/344	Φ314/314	16-Φ13.5	16-Φ13.5	100/100
29	FHQW5-110	300	Φ466/412	Φ400/400	Φ370/370	24-Φ13.5	24-Φ13.5	150/150
30	FHQW4-110	375	Φ576/483	Φ500/500	Φ460/460	16-Φ18	16-Φ18	140/140
31	FHW2-145	240	Φ400/336	Φ292/344	Φ125/314	6-M8	6-M8	108/100
32	FHW3-145	198	Φ330/300	Φ350/350	Φ314/314	16-Φ18	16-Φ18	90/90
33	FHW2-220	240	Φ400/336	Φ292/344	Φ125/314	6-M8	6-M8	108/100
34	FHW2-220	240	Φ400/336	Φ344/344	Φ314/314	16-Φ13.5	16-Φ13.5	100/100
35	FHW5-220	300	Φ466/412	Φ400/400	Φ370/370	24-Φ13.5	24-Φ13.5	150/150
36	FHQW4-220	375	Φ576/483	Φ600/600	Φ560/560	16-Φ18	16-Φ18	140/140
39	FHQW4-330	375	Φ576/483	Φ600/600	Φ560/560	16-Φ18	16-Φ18	140/140



Corrosion Resistant Flanges

Superior Quality Silicone Rubber Housings For Hollow Core Composite Insulator

High Strength Epoxy Fiberglass Winding Tube