



## ZHENGZHOU ORIENT POWER CO., LTD

1626, No.9, Sanquan Road, Zhengzhou, Henan, 450000 P.R.China

Tel/Fax:+86 37186097078, sales direct: +86 13673997131

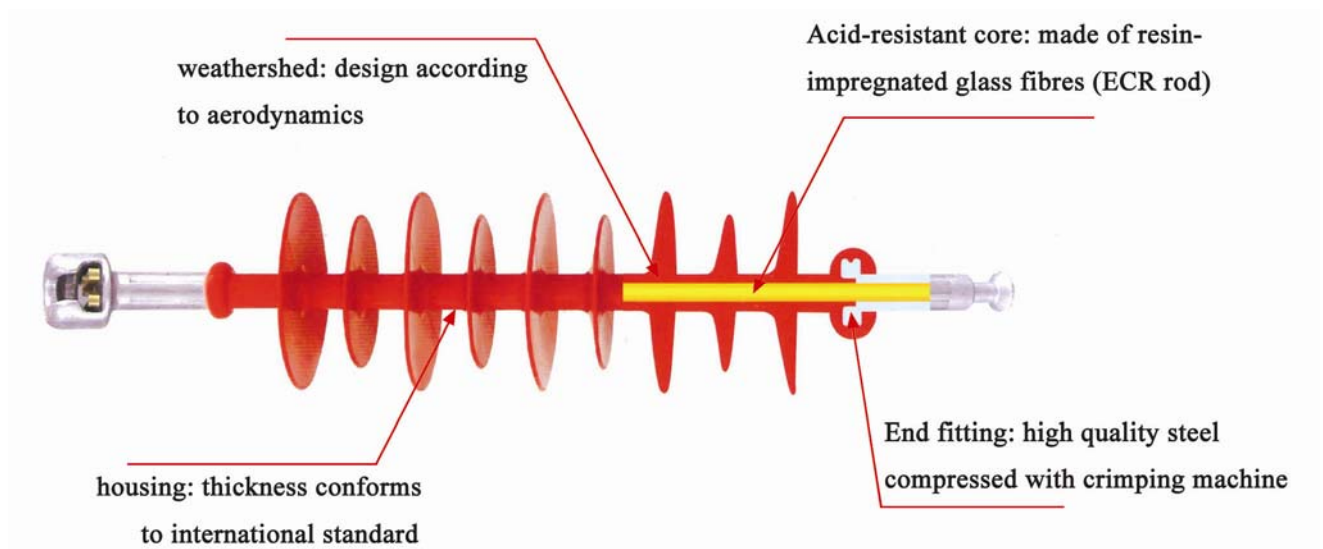
orient@powerinsulator.com <http://www.powerinsulator.com>

### COMPOSITE INSULATOR

Composite insulator, Polymer insulator or Silicone rubber insulator has at least two insulating parts, such as a core and a housing equipped with metal fittings. To compare with the porcelain or glass insulators, it has many advantages and is a development trend.

#### CHARACTERISTICS:

- whole moulding and whole injection
- crimped end fittings
- artistic looking; small volume
- light weight; uneasy broken
- high bending and torsion strength
- good anti-explosive performance
- easy transportation and installation





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### Polymer Long Rod (Suspension):

#### Composite Long Rod (Suspension) Insulator:

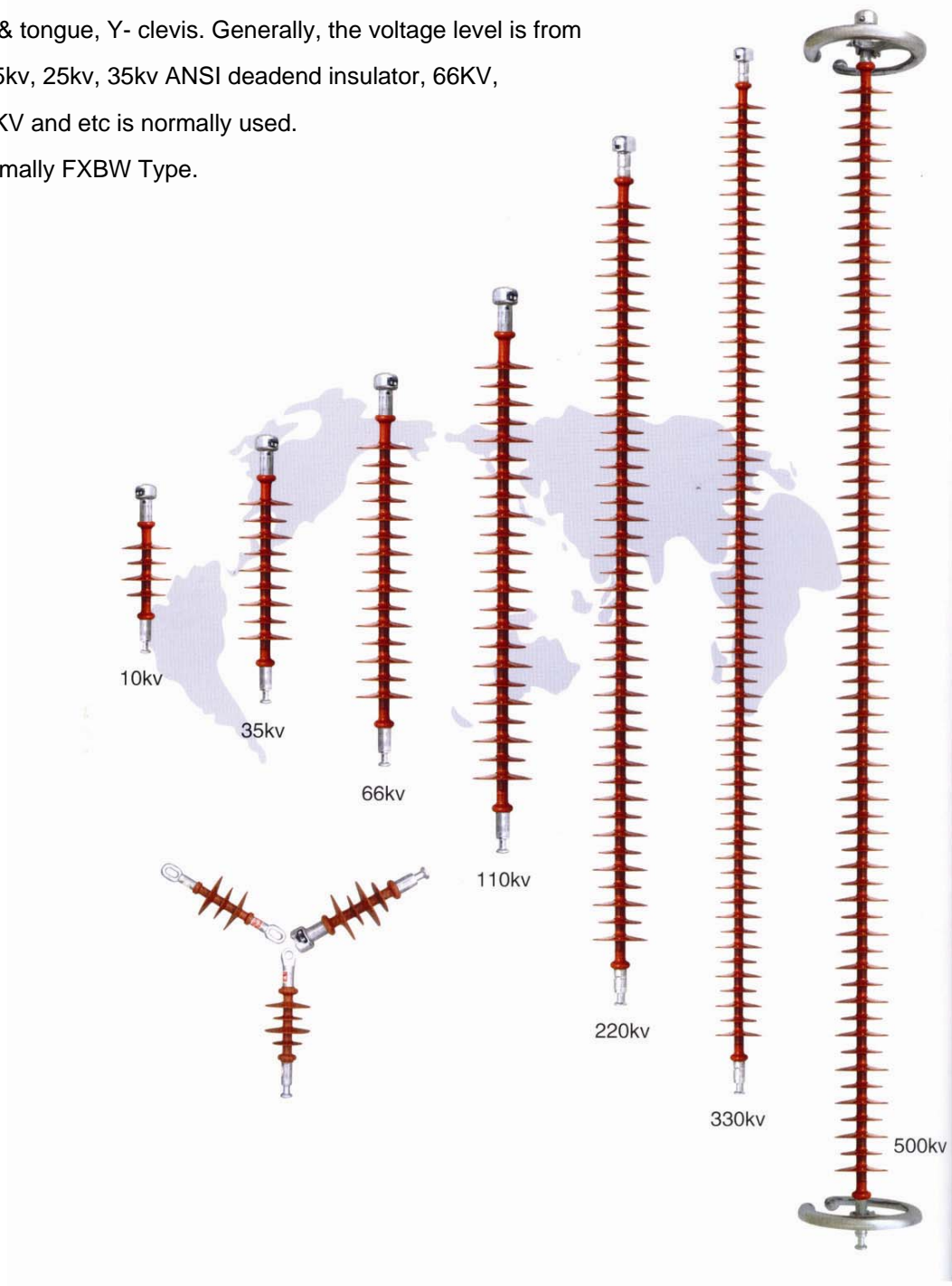
Used on overhead suspension or tension lines, and suitable for the middle and above contamination areas, particularly in the heavy contamination areas. There are several ways of connecting or fitting,

ball & socket, clevis & tongue, Y- clevis. Generally, the voltage level is from

10 KV to 1000KV. 15kv, 25kv, 35kv ANSI deadend insulator, 66KV,

110KV, 220KV, 400KV and etc is normally used.

The type code is normally FXBW Type.





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## High voltage transmission line suspension composite insulator

### Normal type

Model	Voltage Rating kv	Mechanical Tensile load kn	Ball and Socket size	Section length mm	Minimum arcing distance mm	Minimum creepage distance mm
FXBW <sub>4</sub> -10/70	10	70	16	330	160	450
FXBW <sub>4</sub> -10/70	10	70	16	330	160	440
FXBW <sub>4</sub> -10/100	10	100	16	330	160	450
FXBW <sub>4</sub> -10/100G	10	100	16	490	290	700
FXBW <sub>2</sub> -35/70	35	70	16	625	463	1273
FXBW <sub>4</sub> -35/70	35	70	16	650	480	1200
FXBW <sub>4</sub> -35/70	35	70	16	675	495	1350
FXBW <sub>4</sub> -35/100	35	100	16	695	495	1350
FXBW <sub>4</sub> -35/100 (Ice-proof)	35	100	16	685	480	1400
FXBW <sub>4</sub> -66/70	66	70	16	910	740	2140
FXBW <sub>4</sub> -66/100 (Ice-proof)	66	100	16	870	675	2090
FXBW <sub>4</sub> -110/70	110	70	16	1285	1100	3200
FXBW <sub>4</sub> -110/100	110	100	16	1300	1100	3270
FXBW <sub>4</sub> -110/100 Ice proof	110	100	16	1310	1120	3410
FXBW <sub>4</sub> -220/120 Ice proof	220	120	16	2255	2055	6550
FXBW <sub>4</sub> -220/160	220	160	20	2360	2070	6610
FXBW <sub>4</sub> -330/120	330	120	16	3340	3140	10070
FXBW <sub>4</sub> -330/160	330	160	20	3450	3160	10060
FXBW <sub>4</sub> -500/180	500	180	20	4430	4060	13750
FXBW <sub>4</sub> -500/210	500	210	20	4430	4060	13750



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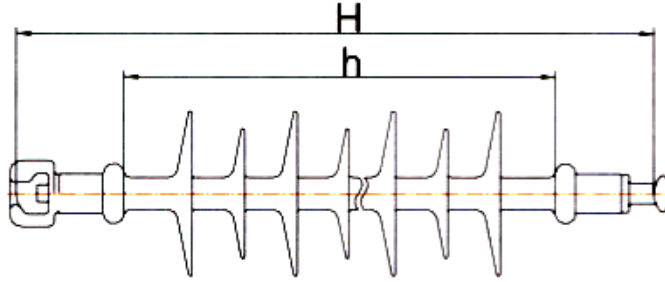
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## Composite insulator Used in Transmission and Distribution Line

### Exporting standard type



Model	No.of sheds	Usual System volt. (kv)	Coupling Length H.mm	Leakage Distance L.mm	Dry arc Distance h.mm	Electrical Ratings			Net Weight (kg)
						Power freq.Flashover(ks)		Impulse Flashover (kv)	
						Dry	Wet		
FXB <sub>4</sub> -35/70SB	9	35	625	1273	450	171	137	297	2.9
FXB <sub>4</sub> -35/100SB	9	35	682	1200	480	171	137	297	2.8
FXB <sub>2</sub> -69/70SB	15	69	880	1890	700	211	169	385	3.5
FXB <sub>3</sub> -69/70SB	19	69	980	2150	800	236	189	440	3.7
FXB <sub>2</sub> -110/120SB	23	110	1222	2670	1000	287	229	550	4.0
FXB <sub>4</sub> -132/70SB	25	132	1482	4040	1300	362	289	715	5.5
FXB <sub>4</sub> -132/120SB	25	132	1522	4040	1300	362	289	715	5.8
FXB <sub>2</sub> -132/160SB	21	132	1520	3800	1200	337	269	660	12.5
FXB <sub>4</sub> -161/70SB	33	161	1782	5210	1600	437	349	800	7.0
FXB <sub>4</sub> -161/120SB	33	161	1822	5210	1600	437	349	880	7.2
FXB <sub>2</sub> -161/160SB	33	161	1920	5670	1600	437	439	880	13.5
FXB <sub>4</sub> -230/120SB	51	230	2572	7870	2350	622	497	1292	10.5
FXB <sub>4</sub> -230/160SB	45	230	2670	7900	2350	622	497	1292	16.0
FXB <sub>4</sub> -345/120SB	65	345	3222	10100	3000	780	624	1650	13.2
FXB <sub>4</sub> -345/160SB	65	345	3320	11010	3000	780	624	1650	18.0
FXB <sub>4</sub> -345/210SB	65	345	3320	8970	3000	780	624	1650	22.6
FXB <sub>4</sub> -400/120SB	81	400	3922	12540	3700	948	758	2035	16.0
FXB <sub>4</sub> -400/160SB	73	400	4020	12690	3700	948	758	2035	21.0
FXB <sub>4</sub> -400/210SB	81	400	4020	11130	3700	948	758	2035	27.5
FXB <sub>4</sub> -400/300SB	81	400	4050	11130	3700	948	758	2035	40.5
FXB <sub>2</sub> -500/160SB	81	500	4420	14080	4100	1045	836	2255	23.0
FXB <sub>3</sub> -500/210SB	93	500	4600	12810	4280	1091	872	2354	31.0
FXB <sub>3</sub> -500/300SB	93	500	4630	12810	4280	1091	872	2354	45.0



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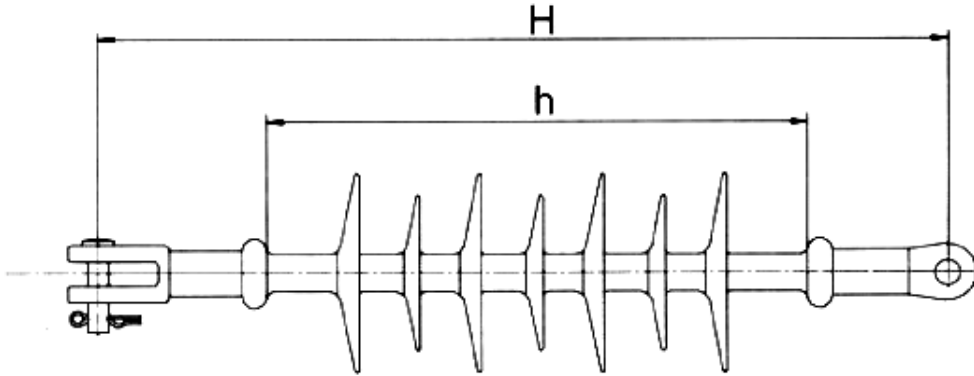
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## Composite insulator Used in Transmission and Distribution Line

### Clevis type



### 70KN Suspension Composite Insulator

Model	No.of sheds	Usual System volt. (kv)	Coupling Length H.mm	Leakage Distance L.mm	Dry arc Distance h.mm	Electrical Ratings			Net Weight (kg)
						Power freq.Flashover(ks)		Impulse Flashover (kv)	
						Dry	Wet		
FXB-11/70CT	4	11	318	340	130	67	53	71	0.8
FXB-15/70CT	5	15	358	440	170	77	61	93	0.9
FXB-25/70CT	6	25	458	680	270	102	82	148	1.2
FXB-35/70CT	9	35	588	1010	400	135	108	220	1.5