



ZHENGZHOU ORIENT POWER CO., LTD

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COMPOSITE INSULATOR

Polymer Insulator for Electrical Railway

Composite insulator for railway traction lines is used in tunnels of electrified railway under severe conditions. They can effectively prevent pollution flashover outage and free from cleaning and maintenance work.

It will hold on not only tension, but also bending. With a very small size, they can hardly be substituted by porcelain or glass insulators in case if small tunnel space The type code is normally FQX, FQE, FQB Type.

Structural features

Q-for contact system

QD-for location

QX-for suspending

QB-cantilever support

S-double insulation

W-for substation

F-composite insulation

Way of connection

H-tongue

U-clevis

Q-socket

T-ball

J-double hoops

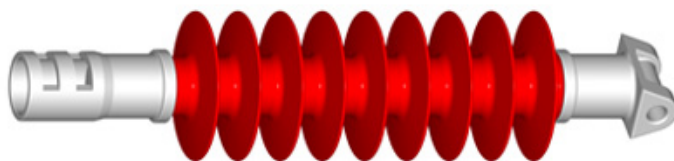
Y-tube

E-special ring

C-couple

G-double hole bush

P-stud or pressed plate





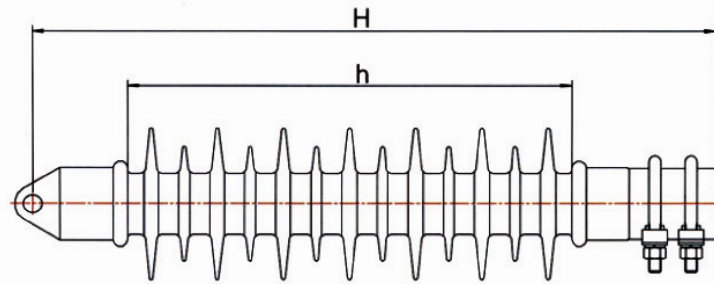
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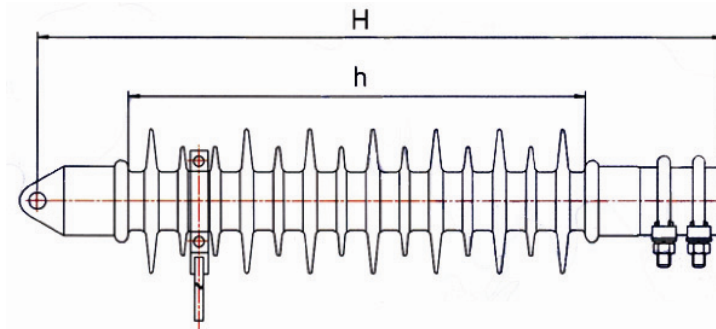
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Oblique Cantilever Supporting Composite Insulator



Oblique Cantilever Supporting Composite Insulator (single insulator)



Oblique Cantilever Supporting Composite Insulator (double insulator)

No.	Fig.	Model	Rating voltage (kv)	Rated rupturing		Main measurements			Full-wave lightning impulse voltage (kv)	power frequency withstand voltage kv	
				tensile rupture	bending rupture	Height of Structure (H, mm)	Min.arc Length (h, mm)	Min. nominal Creepage length (L, mm)		dry	wet
1	1	FQB-25/8-760JH-1250	25	80	8	760	510	1250	300	180	150
2	1	FQB-25/8-760JH-1450	25	80	8	760	510	1450	300	180	150
3	1	FQB-25/8-760JH-1600	25	80	8	760	510	1600	300	180	150
4	1	FQB-25/12-760JH-1450	25	120	12	760	480	1450	300	180	150
5	1	FQB-25/12-760JH-1450	25	120	12	760	480	1600	300	180	150
6	2	FQB-25/8-850JH-1250	25	80	8	850	520	1250/145	300	180	150
7	2	FQB-25/8-850JH-1450	25	80	8	850	520	1450/145	300	180	150
8	2	FQB-25/8-850JH-1600	25	80	8	850	520	1600/145	300	180	150
9	2	FQB-25/12-850JH-1450	25	120	12	850	500	1450/145	300	180	150
10	2	FQB-25/12-850JH-1600	25	120	12	850	500	1600/145	300	180	150



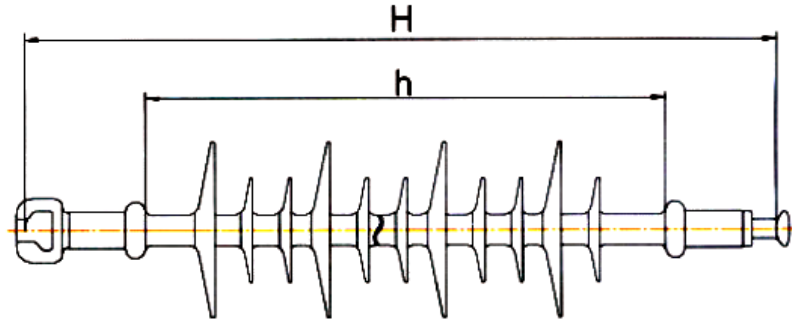
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Composite Insulator Used in Traction Substation



Model	rating voltage (kv)	mechanical Tensile load (kN)	Height of structure (H, mm)	min.arc length (h, mm)	min.nominal creepage length (L, mm)	Full-wave lightning impulse voltage (kv)	power Frequency(wet) One-minute withstand Voltage(kv) (peak value) \geq
FQXW-25/120-680QT-1200	25	120	680	450	1200	270	130
FQXW-35/120-740QT-1600	35	120	740	510	1600	300	150
FQXW-110/120-1240QT-3150	110	120	1240	1010	3150	550	230





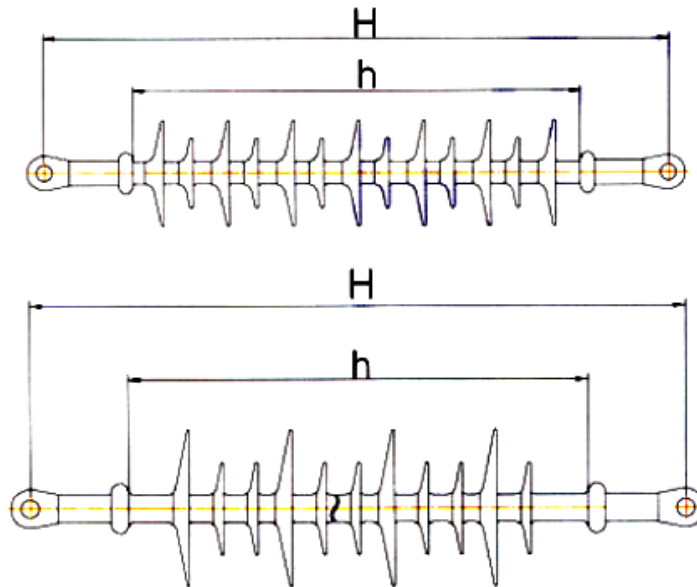
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Carrier Cable Composite Insulator



No.	Model	rating voltage (kv)	mechanical Tensile load (kN)	Height of structure (H, mm)	min.arc length (h, mm)	min. nominal creepage length (L, mm)	Full-wave lightning impulse voltage (kv)	power Frequency (dry) One-minute withstand Voltage(kv) (peak value) \geq	power Frequency (wet) One-minute withstand Voltage(kv) (peak value) \geq
1	FQX-25/100-730HH-1200	25	100	730	500	1200	300	180	150
2	FQX-25/100-930HH-1600	25	100	930	700	1600	300	180	150
3	FQX-25/100-830HH-1400	25	100	830	600	1400	300	180	150
4	FQX-25/100-950HH-1600	25	100	950	720	1600	300	180	150
5	FQX-25/100-738HH-1220	25	100	738	508	1220	300	180	150
6	FQX-25/100-738HH-1420	25	100	738	508	1420	300	180	150
7	FQX-25/100-738HH-1600	25	100	738	508	1600	300	180	150

