RofessionalManufacturer in High Voltage Products field

The series products are composed of glass fiber epoxide resin core rod,silastic shed and metal fittings.The silastic shed adopt the whole packing pressure technique,and then to solve the key problem---interface electric spark puncture, which woule affect the reliability of composite insulator,connection of the glassfiber rod and metal fittings,adopts the pressure welding technique of the international advanced level.and have the full automatic sound wave detection of defects system,high intension,beautiful outline,small volume,light weight,and the metal fitting of galvanization can corrosion prevention and exchange used.with porcelain insulator,this product is reliable structure.cannot damage the core rod,and take full.advantage of the mechanical strength.

A Insulator series

目录 Catalog

绝缘子系列
Insulator series

• 产品结构 Product structure

本系列产品玻璃纤维环氧树脂引拔棒，硅橡胶伞裙，金具三部分组成。其硅橡胶伞裙采用整体注压工艺，从而解决了影响复合绝缘子可靠性的关健问题--界面电气击穿。玻璃引拔棒与金具的联接采用最先进的压接工艺，配有全自动声波探伤检测系统，强度高，外形美观，体积小，重量轻，金具镀锌可防锈蚀，可与瓷绝缘子互换使用，本产品结构可靠，不损伤芯棒，能充分发挥其机械强度。

The series products are composed of glass fiber epoxide resin core rod,silastic shed and metal fittings,The silastic shed adopt the whole packing pressure technique,and then to solve the key problem---interface electric spark puncture,which woule affect the reliabilityof composite insulator, connection of the glass fiber rod and metal fittings,adopts the pressure welding technique of the international advanced level,and have the full automatic sound wave detection of defects system,high intension,beautiful outline,small volume,light weight,and the metal fitting of galvanization can corrosion prevention and exchange used with porcelain insulator,this product is reliable structure,cannot damage the core rod,and take full advantage of the mechanical strength.

• 产品性能 Product prorerty

• 电气性能优越,机械强度高,内部承载的环氧玻璃纤维引拔棒抗弯强度比普通钢材高2倍,是高强度瓷材料的8~10倍,有效提高了安全运行的可靠性.。

• 耐污性能好，抗污闪能力强，其湿耐受电压和污秽耐受电压为相同爬距瓷绝缘子的2~2.5倍,且不需清扫,能在重污秽地区安全运行。

• 体积小,重量轻(仅为同电压等级瓷绝缘子的1/6~1/9),结构轻巧,便于运输和安装。

• 硅橡胶伞裙具有良好的憎水性能，其整体结构保证了内绝缘不受潮，不需进行预防性绝缘监测试验，不需清扫，减少了日常维护工作量。

• 密封性能好，耐电蚀能力强，伞裙材料耐漏电起痕达TMA4.5级水平，具有良好的耐老化、耐腐蚀、耐低温性能,可适用于-40℃～+50℃地区

• 具有很强的抗冲击性和防震性能，其良好的防脆性和抗蠕变性，不易破碎、抗弯曲、搞扭强度高，可承受内部压强，防爆力强，可与瓷、玻璃绝缘子互换使用。

• 复合绝缘子系列产品，其机械性能和电气性能均优于瓷绝缘子，运行安全裕度大，是电力线路用的更新产品。

• Good electrical specification,strong mechanical strength,tensile bending intension of the epoxy glass fiber rod of internalload bearing is double than normal rolled products,8~10times of high strength porcelain material,can effecti vely improve the reliableof safe operation.

• Fine anti-pollution,strong prevent flash accident,and the wet withstand voltage and pollution withstand voltage is2~2.5times than the same creepage distance porcelain insulator,and not to cleanup,cansafe operate in the serious pollution areas.

• Small volume,light weight(only for the same voltage grade of porcelain insulator1/6~1/9),lightness structure,toeasy for transportationand installation,the shed has favorable waterproof performance,which the whole structure assure the internal insulation is not wet,not need to test of preventinsulation and cleanup,to reduce the routine naintenance work capacity.

• Good sealing performance,strength anti-ageing,corrosion proof,low-temperature proof performance and the level is TMA4.5class,is applied to-40℃~+50℃areas,they have strong resistance to impact and creep resistance,unbearable anti-bend,highanti-bend strength,loading internal,force and strong explosion proof,can exchange use of porceelain, glass insulator each other.

• Composite insulator series products,which the mechanical performance and electric performance are better than porcelain insulator,and the tolerance of safe operation is big,and it is the renew prodct for electric power line.

• 型号说明 Type definifion

F □ □ □ - □ / □

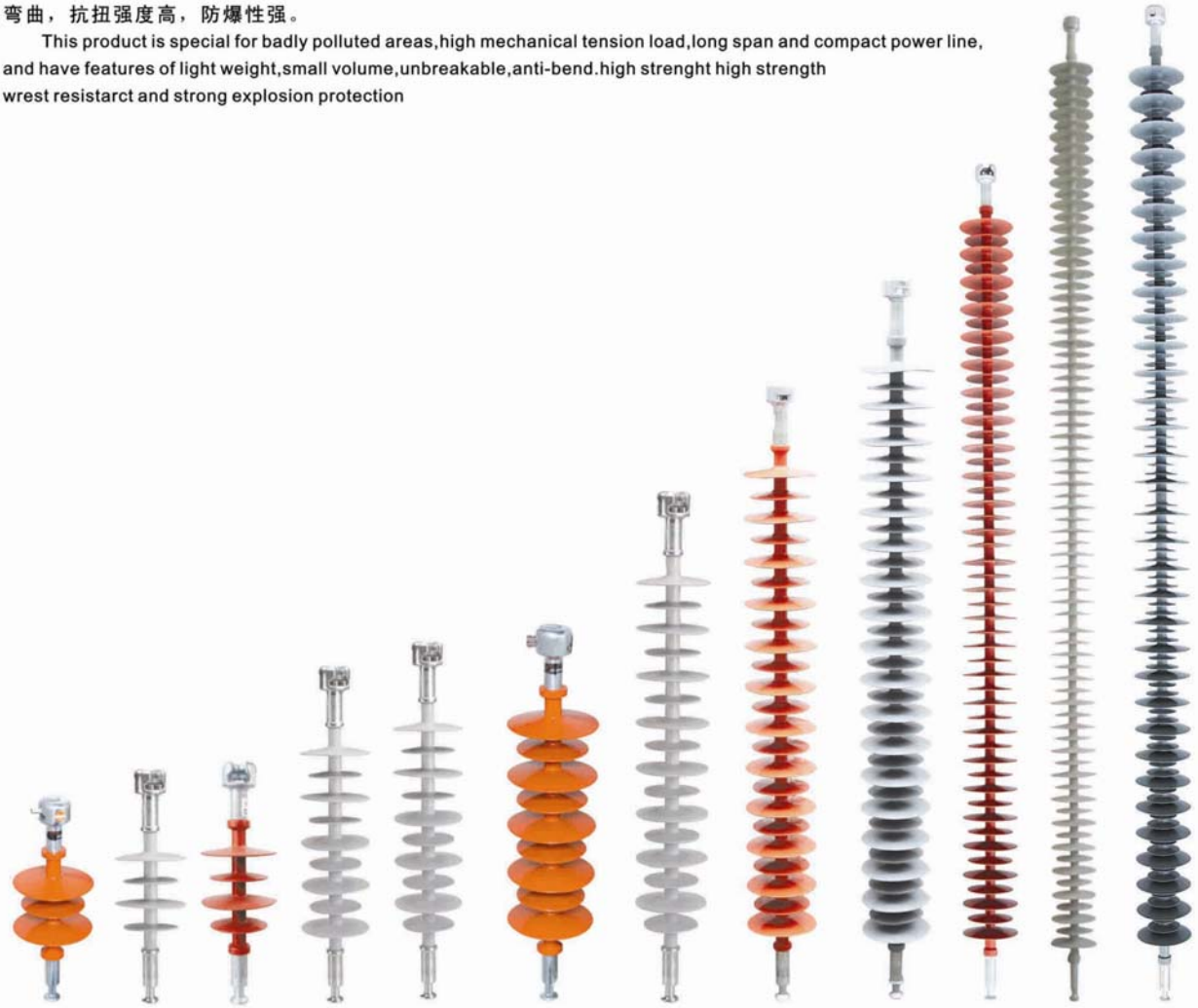
- 额定机械负荷(KN) Rated voltage(KN)
- 系统标称电压(kV) Rated mechanical load(KN)
- 设计序号(以阿拉伯数字表示) Design sequence
- 结构特征W-大小伞X-悬挂型E-定位型 Structure featureW-big/small shed X-hang-type E-orient type
- 用途 XB-悬式棒形 Q-电气化铁道用 S-横担 PQ-针式 ZS-支柱 Usage XB-hang-type rod model Q-For electric-railway S-Cross-arm PQ-pin ZS-Supporting
- 复合材料 Composite material

绝缘子系列
Insulator series

• 复合悬式绝缘子 Suspension composite Insulator

本产品尤其适用于污秽地区、高机械拉伸负荷、大跨和紧凑型线路。具有重量轻，体积小，不易破碎，弯曲，抗扭强度高，防爆性强。

This product is special for badly polluted areas,high mechanical tension load,long span and compact power line, and have features of light weight,small volume,unbreakable,anti-bend.high strenght high strength wrest resistarct and strong explosion protection



• 主要技术参数 Main techical parameters

产品型号 Product Model	额定电压 Rated voltage	额定机械负荷 Rated mechanical load(KN)	结构高度 Structure height H.(mm)	绝缘距离 Insulating distance Li.(mm)	最小公称爬电距离 Min Creepage distanee(mm)	雷电冲击耐受电压峰值 Lightning impulse withstand voltage (peak)(kV)	工频耐受电压有效值 P.Fwet withslend voltage(virtual value) (kV)
FXBW4-12/70	12	70	370	200	480	75	42
FXBW4-12/100	12	100	405	200	480	75	42
FXBW4-24/70	24	70	550	370	850	185	75
FXBW4-24/100	24	100	590	370	850	185	75
FXBW4-35/70	35	70	650	450	1225	230	95
FXBW4-35/100	35	100	690	450	1225	230	95
FPBW4-66/70	66	70	900	710	1980	410	185
FXBW4-66/100	66	100	940	710	1980	410	185
FPBW4-110/70	110	70	1240	1000	3315	550	230
FPBW4-110/100	110	100	1240	1000	3315	550	230
FPBW4-220/100	220	100	2240	1900	6300	1000	395
FPBW4-220/160	220	160	2240	1900	6300	1000	395
FPBW4-330/100	330	100	2950	2600	9075	1425	570
FPBW4-330/160	330	160	2950	2600	9075	1425	570
FXBW4-500/160	500	160	4080	3730	12750	2250	740

绝缘子系列
Insulator series

• Composite insulators and fittings

Dimensions tolerance acc,to IEC61109

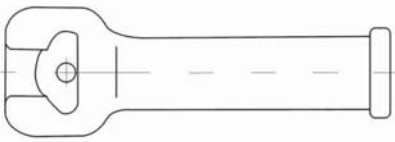
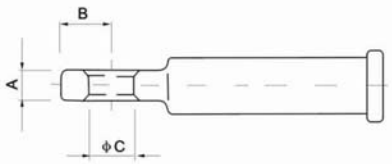
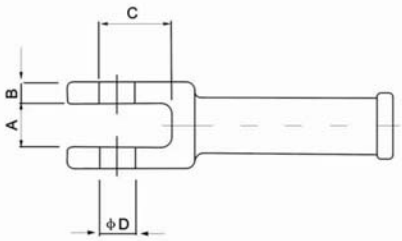
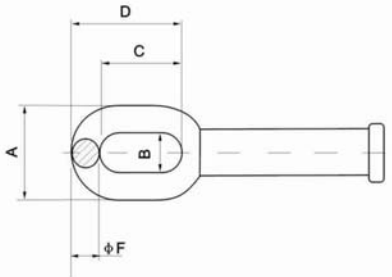
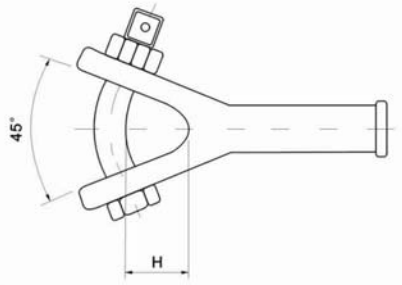
• 主要技术参数 Main techical parameters

Item			Dongwoo Standard			
Electrical ratings	Rated voltage		45kV	35kV	25kV	15kV
	Low frequency dry flashover voltage test		190kV	170kV	150kV	100kV
	Low frequency wet flashover voltage test		170kV	140kV	115kV	70kV
	Critical impulse fcashover voltage test	Positive	275kV	255kV	235kV	180kV
		Negative	370kV	345kV	320kV	260kV
	Radio influence voltage test Max.voltage test		1μ/（Max）	1μ/（Max）	1μ/（Max）	1μ/（Max）
Mechanical	Failing load test		10,000kgf	10,000kgf	10,000kgf	10,000kgf
	Number of sheds		10	8	6	4
Dimensions	Section Length		630mm	540mm	449mm	352mm
	Leakage distance		2190mm	886mm	674mm	445mm
	Minimum arcing distance		1100mm	410mm	320mm	215mm

绝缘子系列
Insulator series

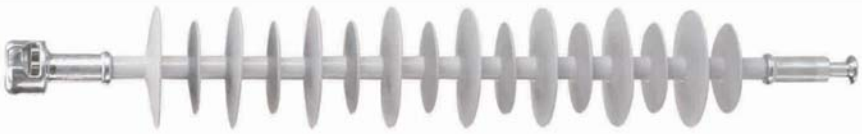
• Composite insulators and fittings

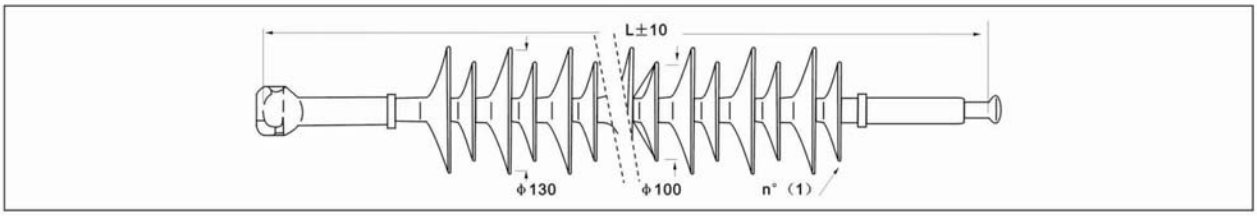
All the end fittings listed in the table below refer for what is stated in IEC61466-1(02-1997)standard.

TYPE	Code	70KN	120KN	160KN	210KN
	BALL B	Size16 IEC60120	Size16 IEC60120	Size20 IEC60120	Size20 IEC60120
	SOCKET S	Size16 IEC60120	Size16 IEC60120	Size20 IEC60120	Size20 IEC60120
	TONGUE T	Size16N A=17.0 B=20.0 C=17.5	Size19N A=16 B=27 C=24	Size19N A=16 B=27 C=24	Size20N A=22 B=26 C=24
	CLEVIS C	Size16N A=18.0 B=8.00 C=34.8 D=17.5	Size19N A=23.0 B=11.5 C=38.0 D=20.0	Size19N A=23.0 B=11.5 C=38.0 D=20.0	Size20N A=26.0 B=15.0 C=43.0 D=22.0
	EYE E	Size17 A=44 B=20 C=31 D=45 E=12	Size24 A=62 B=26 C=52 D=70 E=18	Size24 A=62 B=26 C=52 D=70 E=18	Size25 A=70 B=26 C=52 D=74 E=22
	Y-CLEVIS Y	Size199 H=40	Size19 H=40	Size19 H=40	Size22 H=40

绝缘子系列
Insulator series

• Composite Suspension or Tension Insulator Silicone Rubber Type RL-can-*class 70kN or class 120kN





Dimensions tolerance acc,to IEC 61109

Selection Guide (Line Voltage,kv) 12 / 17 / 24 / 36 / 45 / 66	Catalogue Code (◆)	N° of Sheds A n° (1)	Length L ±10 mm	Leakage distance mm	Minimnn arcing distance mm	Power frequency withstand 50Hz Dry kV	Power frequency withstand 50Hz Wet kV	Lightning impul. Withstand 1,2/50 posit kV	Lightning impul. Withstand 1,2/50 negat. kV	Weight ~kg
	RL-CAN-*	2	366	295	166	65	55	100	110	1.5
	RL-CAN-*	3	407	435	207	75	60	130	140	1.6
	RL-CAN-*	4	540	540	248	85	70	160	170	1.7
	RL-CAN-*	5	680	680	289	100	85	180	200	1.8
	RL-CAN-*	6	785	785	330	110	100	200	230	1.9
	RL-CAN-*	7	571	925	336	120	110	220	250	2.0
	RL-CAN-*	8	612	1030	412	135	120	240	285	2.1
	RL-CAN-*	9	653	1170	453	150	130	260	315	2.2
	RL-CAN-*	10	694	1275	480	160	140	280	330	2.3
	RL-CAN-*	11	735	1415	535	175	155	305	355	2.4
	RL-CAN-*	12	1520	1570	576	190	165	325	375	2.5
	RL-CAN-*	13	817	1660	617	215	180	340	395	2.6
	RL-CAN-*	14	858	1765	658	230	200	370	430	2.7
	RL-CAN-*	15	899	1905	699	250	220	410	465	2.8
	RL-CAN-*	16	940	2010	740	260	230	450	490	2.9
	RL-CAN-*	17	981	2150	781	280	250	480	520	3.0
	RL-CAN-*	18	1022	2250	822	290	260	500	540	3.1
	RL-CAN-*	19	2395	2360	863	300	270	520	560	3.2
	RL-CAN-*	20	1104	2500	904	315	280	540	580	3.3
	RL-CAN-*	21	1145	2640	945	330	300	570	615	3.4

NOTE:Once chosen the insulator that is the most suitable to the characteristics of the line on which you have to install it , in order to obtain the total length of the insulator(L),please select the kind of fitting end you have to use(see page 18)and refer to the following table:

Ground fitting	Line fitting	Code (2)	Length change(L)
SOCKET	BALL	SB	0
CLEVIS	TONGUE	CT	+35
EYE	EYE	EE	+64
EYE	BALL	EB	+29
EYE	TONGUE	ET	+27
CLEVIS	BALL	CB	-8
SOCKET	EYE	SE	-10
Y-CLEVIS	TONGUE	YT	+15
Y-CLEVIS	EYE	YE	+52

These insulators are produced and tested according to IEC 61109.
Lt`s possible to have all the other combinations.

Specified Mechanical Load	SML-IEC 61109	
Routine Test Load	RTL=50%of SML	
Specified Mechanical Load	70kN	120kN
Routine Test Load	35kN	60kN
Max. torsion Load	90N*m	90N*m

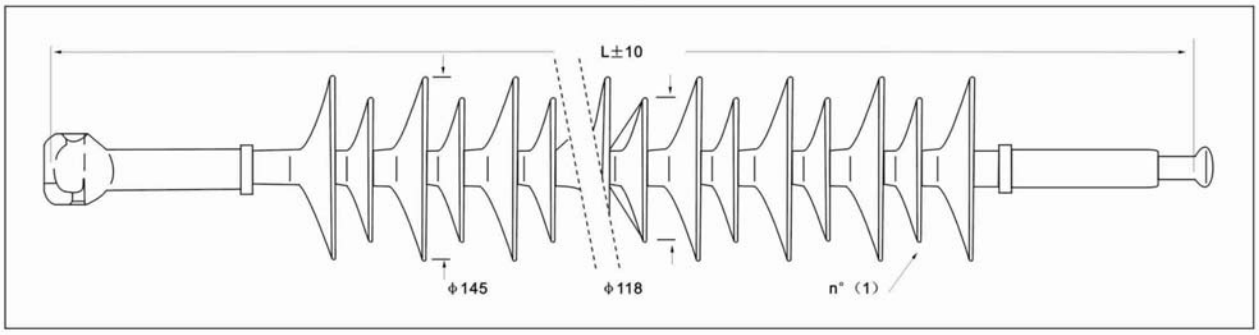
The metal fittings are in galvanized steel

(◆)Key to the catalogue numbers
*Key:RL-CAN-A(1)-120(2)
Example:RL-CAN-A7-120SB

Please don`t hesitate to contact us directly for obtaining possible explanations or different solutions.

绝缘子系列
Insulator series

• Transmission Composite Supection-Tension Insulators in Silicone Rubber Type RL-ROK-*class 70kN or class 120kN



Dimensions tolerance acc.to IEC 61109

Selection Guide (Line Voltage,kv) 72	123	145	170	250	400	Catalogue Code (◆)	N° of Sheds A n° (1)	Length L ±10 mm	Leakage distance mm	Minimnn arcing distance mm	Power frequency withstand 50Hz Dry kV	Power frequency withstand 50Hz Wet kV	Lightning impul. Withstand 1,2/50 posit kV	Lightning impul. Withstand 1,2/50 negat. kV	Weight ~kg
						RL-ROK-*	9+8	915	2312	690	275	195	460	495	4,4
						RL-ROK-*	10+9	1010	2584	765	310	230	515	550	4,9
						RL-ROK-*	12+11	1160	3128	915	340	265	570	615	5,4
						RL-ROK-*	14+13	1310	3672	1065	380	300	620	670	5,9
						RL-ROK-*	15+14	1385	3944	1140	415	335	670	725	6,4
						RL-ROK-*	17+16	1535	4488	1290	450	370	720	780	6,9
						RL-ROK-*	19+18	1685	5032	1440	485	405	770	835	7,4
						RL-ROK-*	21+20	1835	5576	1590	520	435	830	900	7,9
						RL-ROK-*	22+21	1910	5848	1665	565	475	915	990	8,4
						RL-ROK-*	24+23	2060	6392	1815	615	515	1000	1080	8,9
						RL-ROK-*	26+25	2210	6936	1965	645	545	1070	1155	9,4
						RL-ROK-*	27+26	2285	7208	2040	675	575	1140	1230	9,7
						RL-ROK-*	29+28	2435	7752	2190	710	605	1210	1310	10,4
						RL-ROK-*	31+30	2585	8296	2340	760	640	1270	1370	10,9
						RL-ROK-*	33+32	2735	8840	2490	810	675	1330	1430	11,4
						RL-ROK-*	35+34	2885	9384	2640	860	710	1390	1490	11,9
						RL-ROK-*	36+35	2960	9656	2715	875	720	1450	1565	12,4
						RL-ROK-*	38+37	3110	10200	2865	890	740	1520	1640	12,9
						RL-ROK-*	40+39	3260	10744	3015	905	750	1585	1715	13,4
						RL-ROK-*	42+41	3410	11288	3165	920	760	1650	1800	13,9

NOTE:Once chosen the insulator that is the most suitable to the characteristics of the line on which you have to install it , in order to obtain the total length of the insulator(L),please select the kind of fitting end you have to use(see page 18)and refer to the following table:

Ground fitting	Line fitting	Code (2)	Length change(L)
SOCKET	BALL	SB	0
CLEVIS	TONGUE	CT	-40
EYE	EYE	EE	+55
EYE	BALL	EB	+20
EYE	TONGUE	ET	+5
CLEVIS	BALL	CB	-25
SOCKET	EYE	SE	+30
Y-CLEVIS	TONGUE	YT	+5
Y-CLEVIS	EYE	YE	+50

These insulators are produced and tested according to IEC 61109.
Lt`s possible to have all the other combinations.

Specified Mechanical Load	SML-IEC 61109	
Routine Test Load	RTL=50%of SML	
Specified Mechanical Load	70kN	120kN
Routine Test Load	35kN	60kN
Max. torsion Load	90N*m	90N*m

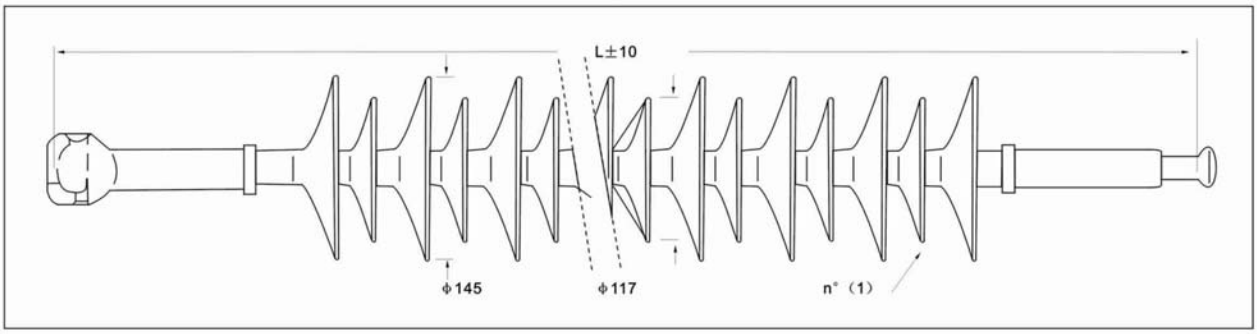
The metal fittings are in galvanized steel

(◆)Key to the catalogue numbers
*Key:RL-ROK-A(1)-70(2)
Example:RL-ROK-A22+21-70SB

Please don`t hesitate to contact us directly for obtaining possible explanations or different solutions.

绝缘子系列
Insulator series

• Transmission Composite Supection-Tension Insulators in Silicone Rubber Type RL-ROK-*class 160kN or class 210kN



Dimensions tolerance acc.to IEC 61109

Selection Guide (Line Voltage,kv) 72	123	145	170	250	400	Catalogue Code (◆)	N° of Sheds A n° (1)	Length L ±10 mm	Leakage distance mm	Minimnn arcing distance mm	Power frequency withstand 50Hz Dry kV	Wet kV	Lightning impul. Withstand 1,2/50 posit kV	negat. kV	Weight ~kg
						RL-ROK-*	9+8	988	2375	778	275	195	460	495	4,4
						RL-ROK-*	10+9	1072	2650	862	310	230	515	550	4,9
						RL-ROK-*	12+11	1240	3200	1020	340	265	570	615	5,4
						RL-ROK-*	14+13	1408	3750	1198	380	300	620	670	5,9
						RL-ROK-*	15+14	1492	4025	1282	415	335	670	725	6,4
						RL-ROK-*	17+16	1660	4575	1450	450	370	720	780	6,9
						RL-ROK-*	19+18	1828	5125	1618	485	405	770	835	7,4
						RL-ROK-*	21+20	1996	5675	1786	520	435	830	900	7,9
						RL-ROK-*	22+21	2080	5950	1870	565	475	915	990	8,4
						RL-ROK-*	24+23	2248	6500	2038	615	515	1000	1080	8,9
						RL-ROK-*	26+25	2416	7050	2206	645	545	1070	1155	9,4
						RL-ROK-*	27+26	2500	7325	2274	675	575	1140	1230	9,7
						RL-ROK-*	29+28	2668	7875	2458	710	605	1210	1310	10,4
						RL-ROK-*	31+30	2836	8425	2626	760	640	1270	1370	10,9
						RL-ROK-*	33+32	3004	8975	2784	810	675	1330	1430	11,4
						RL-ROK-*	35+34	3172	9525	2962	860	710	1390	1490	11,9
						RL-ROK-*	36+35	3256	9800	3046	875	720	1450	1565	12,4
						RL-ROK-*	38+37	3424	10350	3214	890	740	1520	1640	12,9
						RL-ROK-*	40+39	3592	10900	3382	905	750	1585	1715	13,4
						RL-ROK-*	42+41	3760	11450	3550	920	760	1650	1800	13,9

NOTE:Once chosen the insulator that is the most suitable to the characteristics of the line on which you have to install it , in order to obtain the total length of the insulator(L),please select the kind of fitting end you have to use(see page 18)and refer to the following table:

Ground fitting	Line fitting	Code (2)	Length change(L)
SOCKET	BALL	SB	0
CLEVIS	TONGUE	CT	-40
EYE	EYE	EE	+55
EYE	BALL	EB	+20
EYE	TONGUE	ET	+5
CLEVIS	BALL	CB	-25
SOCKET	EYE	SE	+30
Y-CLEVIS	TONGUE	YT	+5
Y-CLEVIS	EYE	YE	+50

These insulators are produced and tested according to IEC 61109.
It`s possible to have all the other combinations.

Specified Mechanical Load	SML-IEC 61109	
Routine Test Load	RTL=50%of SML	
Specified Mechanical Load	160kN	210kN
Routine Test Load	80kN	105kN
Max. torsion Load	120N*m	120N*m

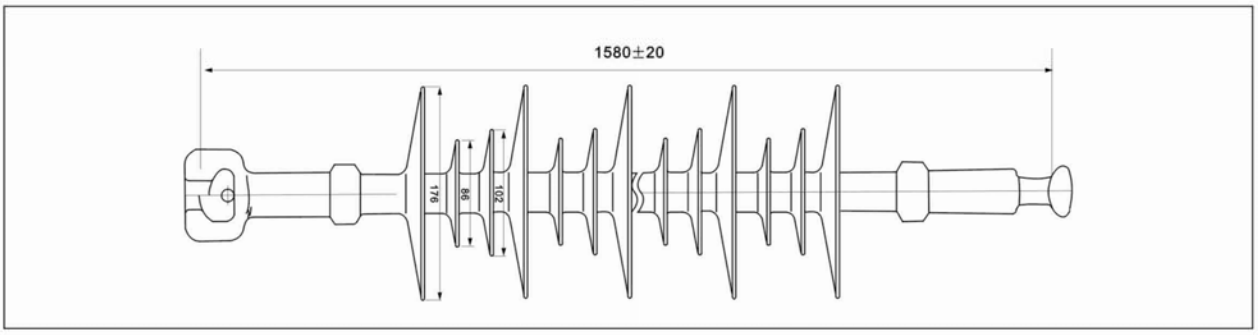
The metal fittings are in galvanized steel

(◆)Key to the catalogue numbers
*Key:RL-ROK-A(1)-(160 or 210)(2)
Example:RL-ROK-A22+21-(160 or 210)SB

Please don`t hesitate to contact us directly for obtaining possible explanations or different solutions.

绝缘子系列
Insulator series

• Transmission Composite Supection-Tension Insulators in Silicone Rubber Type RL-SOR-*class 300kN



Dimensions tolerance acc.to IEC 61109

Selection Guide (Line Voltage,kv) 115 145 170 345 420 500	Catalogue Code (◆)	N° of Sheds A n° (1)	Length L ±10 mm	Leakage distance mm	Minimnn arcing distance mm	Power frequency withstand 50Hz Dry kV	Power frequency withstand 50Hz Wet kV	Lightning impul. Withstand 1,2/50 posit kV	Lightning impul. Withstand 1,2/50 negat. kV	Weight ~kg
	RL-SOR-*	7+6+6	916	1920	628	350	275	580	625	3.6
	RL-SOR-*	9+8+8	1082	2560	844	3850	300	620	670	4.4
	RL-SOR-*	11+10+10	1248	3200	1010	415	335	670	725	5.2
	RL-SOR-*	13+12+12	1414	3840	1176	455	375	725	785	6.1
	RL-SOR-*	15+14+14	1580	4480	1342	480	400	765	830	6.9
	RL-SOR-*	17+16+16	1746	5120	1508	525	440	840	910	7.8
	RL-SOR-*	19+18+18	1912	5760	1674	570	480	920	995	8.6
	RL-SOR-*	21+22+22	2078	6400	1840	610	510	990	1070	9.5
	RL-SOR-*	23+22+22	2244	7040	2006	645	545	1050	1155	10.3
	RL-SOR-*	25+24+24	2410	7680	2172	685	585	1150	1240	11.1
	RL-SOR-*	27+26+26	2576	8320	2338	700	595	1200	1300	12.0
	RL-SOR-*	29+28+28	2742	8960	2504	740	620	1250	1350	12.8
	RL-SOR-*	31+30+30	2908	9600	2670	815	660	1340	1440	13.7
	RL-SOR-*	33+32+32	3074	10240	2836	845	685	1380	1480	14.5
	RL-SOR-*	35+34+34	3240	10880	3002	865	710	1485	1585	15.4
	RL-SOR-*	37+36+36	3406	11520	3168	900	750	1670	1820	16.2
	RL-SOR-*	39+38+38	3572	12160	3334	930	780	1760	1860	17.0
	RL-SOR-*	41+40+40	3738	12800	3500	960	820	1780	1930	17.9
	RL-SOR-*	43+42+42	3904	13440	3666	1140	1020	2030	2110	18.7
	RL-SOR-*	47+46+46	4236	14720	3998	1280	1100	2400	2510	19.5

NOTE:Once chosen the insulator that is the most suitable to the characteristics of the line on which you have to install it , in order to obtain the total length of the insulator(L),please select the kind of fitting end you have to use(see page 18)and refer to the following table:

Ground fitting	Line fitting	Code (2)	Length change(L)
SOCKET	BALL	SB	0
CLEVIS	BALL	CT	0
SOCKET	TONGUE	ST	0
CLEVIS	TONGUE	CT	0

Socket and ball are size 24 acc.to IEC60120 Clevis and tongue are size 25Lacc.To IEC60471

Specified Mechanical Load	SML-IEC61109
Routine Test Load	RTL=50%of SML
Specified Mechanical Load	300kN
Routine Test Load	155kN
Max. torsion Load	200N*m

The metal fittings are in galvanized steel

(◆)Key to the catalogue numbers
*Key:RLK-SOK-A(1)-300(2)
Example:RL-SOK-A21+20-300SB

Please don`t hesitate to contact us directly for obtaining possible explanations or different solutions.

These insulators are produced and tested according to IEC 61109.
Lt`s possible to have all the other combinations.

绝缘子系列
Insulator series

• Composite Horizontal Line Post Insulator in Silicone Rubber Type RL-FC-*

Dimensions tolerance acc.to IEC 61952

Selection Guide (Line Voltage,kv) 12	17	24	36	45	52	Catalogue Code (◆)	Specified Cantilever Load kN	N° of Sheds A n° (1)	Length L ±5 mm	Leakage distance mm	Dry arc distance mm	Power frequency withstand 50Hz Dry kV	Wet kV	Lightning impul. Withstand 1,2/50 posit kV	negat. kV	Weight ~kg
						RL-FC-*	10,0	2+1	365	390	165	70	65	115	160	6,5
						RL-FC-*	8,4	3+2	420	585	225	110	100	150	190	7,0
						RL-FC-*	7,2	4+3	480	780	285	120	110	180	215	7,5
						RL-FC-*	6,3	5+4	540	975	340	150	140	235	270	8,0
						RL-FC-*	5,5	6+5	600	1170	400	170	155	270	300	8,5
						RL-FC-*	5,0	7+6	660	1365	460	180	165	285	325	9,0
						RL-FC-*	4,5	8+7	715	1560	520	200	185	305	355	9,5
						RL-FC-*	4,2	9+8	775	1755	575	225	210	345	405	10,0

NOTE:Once chosen the insulator that is the most suitable to the characteristics of the line on which you have to install it , in order to obtain the total length of the insulator(L),please select the kind of fitting end you have to use and make the opportunc correction with reference to the following table:

Ground fitting	Line fitting	Code (2)	Length change(L)
Fitting GB	Fitting HC	HCGB	0
Fitting M	Fitting HC	HCM	+36
Fitting R	Fitting HC	HCR	-78
Fitting GB	Fitting B	BGB	+9
Fitting M	Fitting B	BM	+44
Fitting R	Fitting B	BR	-69
Fitting GB	Fitting C	CGB	-40
Fitting M	Fitting C	CM	-150
Fitting R	Fitting C	CR	-105

These insulators are produced and tested according to IEC 61952.
It`s possible to have all the other combinations.

Specified Cantilever Load	SCL-IEC 61952
Max.Design Cantilever Load	MDCL=65%of SCL
Specified Tensile Load(STL)	15kN
Max. desigh compression	15kN
Max. desigh torsion	15daN*m

The SCL can be increased,please contact us.

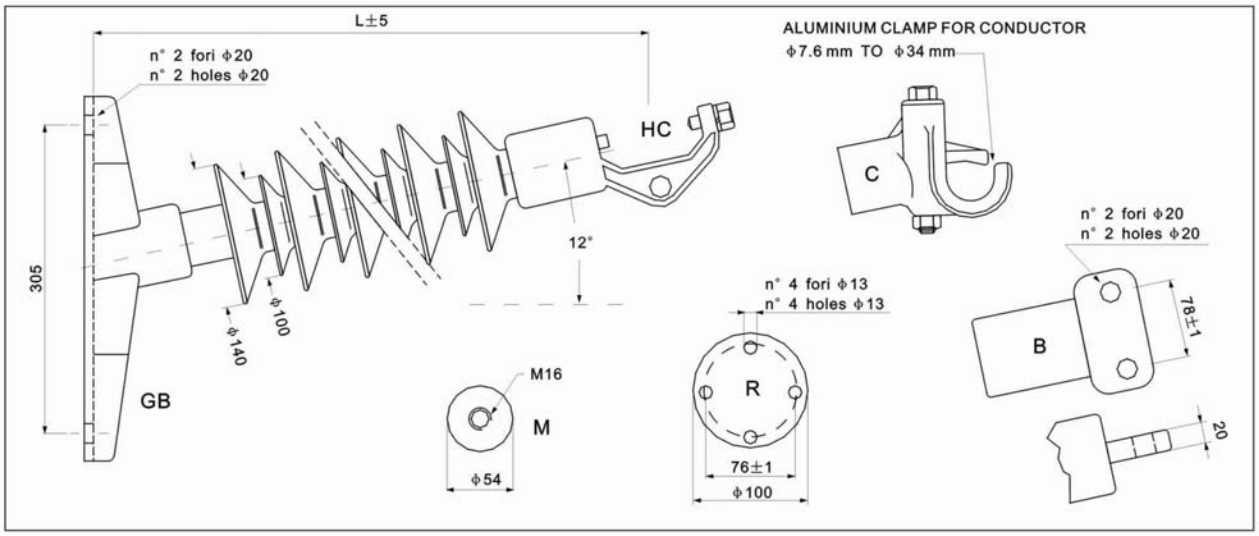
The metal fittings can be in aluminium or galvanized steel.

(◆)Key to the catalogue numbers
Key:ISI-FC-A(1)-(2)
Example:ISI-FC-A4+3-HCGB

Please don`t hesitate to contact us directly for obtaining possible explanations or different solutions.

绝缘子系列
Insulator series

• Composite Horizontal Line Post Insulator in Silicone Rubber Type RL-FC-*



Dimensions tolerance acc.to IEC 61952

Selection Guide (Line Voltage,kv) 72	115	150	Catalogue Code (◆)	Specified Cantilever Load kN	N° of Sheds A n° (1)	Length L +/-5 mm	Leakage distance mm	Dry arc distance mm	Power frequency withstand 50Hz Dry kV	Wet kV	Lightning impul. Withstand 1,2/50 posit kV	negat. kV	Weight +/-kg
			RL-FC-*	3,9	10+9	840	1950	635	270	225	450	490	10,5
			RL-FC-*	3,3	12+11	955	2340	750	310	245	515	550	11,5
			RL-FC-*	3,0	14+13	1070	2730	870	355	285	570	615	12,5
			RL-FC-*	2,7	16+15	1185	3120	985	400	320	625	670	13,5
			RL-FC-*	2,4	18+17	1300	3510	1105	435	355	680	735	14,5
			RL-FC-*	2,2	20+19	1415	3900	1220	475	390	750	805	15,5
			RL-FC-*	2,0	22+21	1525	4290	1335	520	430	820	890	16,5
			RL-FC-*	1,8	24+23	1640	4680	1455	560	475	870	940	17,5

NOTE:Once chosen the insulator that is the most suitable to the characteristics of the line on which you have to install it , in order to obtain the total length of the insulator(L),please select the kind of fitting end you have to use and make the opportunc correction with reference to the following table:

Ground fitting	Line fitting	Code (2)	Length change(L)
Fitting GB	Fitting HC	HCGB	0
Fitting M	Fitting HC	HCM	+36
Fitting R	Fitting HC	HCR	-78
Fitting GB	Fitting B	BGB	+9
Fitting M	Fitting B	BM	+44
Fitting R	Fitting B	BR	-69
Fitting GB	Fitting C	CGB	-40
Fitting M	Fitting C	CM	-150
Fitting R	Fitting C	CR	-105

These insulators are produced and tested according to IEC 61952.
It`s possible to have all the other combinations.

Specified Cantilever Load	SCL-IEC 61952
Max.Design Cantilever Load	MDCL=65%of SCL
Specified Tensile Load(STL)	15kN
Max desigh compression	15kN
Max desigh torsion	15daN*m

The SCL can be increased,please contact us.

The metal fittings can be in aluminium or galvanized steel.

(◆)Key to the catalogue numbers
Key:ISI-FC-A(1)-(2)
Example:ISI-FC-A16+15-HCGB

Please don`t hesitate to contact us directly for obtaining possible explanations or different solutions.

绝缘子系列
Insulator series

• 复合针式绝缘子 Pin-type composite Insulator

本产品适用于高压线路设施。具有良好的憎水性、抗老化性、耐漏电起痕性和耐电蚀损性，具有很高的抗张强度和抗弯强度，其机械强度高，抗冲击性能、防震和防脆断性能好，重量轻、安装方便，其顶部和底部安装尺寸与相应的瓷针式安装尺寸相同，可以互换使用。

This product is applied to high voltage power line service.And have features of good gydrophobicity,anti-ageing.anti-leakage traceand electric erode proof, tensile strength and bending strength,strong mechanical strength,shock resistance good quakeproof and brittle failure proof,light weight,easy to installation,and the installation size of top and base are the same size with porcelainp in type,they canexchange to use each other

• 主要技术参数 Main techical parameters

产品型号 Product Model	额定电压 Rated Voltage	额定机械负荷 Rated mechanical Bending load(KN)	结构高度 Structure height H.(mm)	绝缘距离 Insulating distance Li.(mm)	最小公称爬电距离 Min Creepaqe distance (mm)	雷电冲击耐受电压峰值 Lightning impulse withstand voltage (peak)(kV)	工频耐受电压有效值 P.F.withstand voltage (virtual value)(kV)
FPQ-10/4T20	10	4	215	125	280	75	42
FPQ-10/5T20	10	5	250	165	370	105	42
FPQ-24/6	24	6	305	255	715	150	75
FPQ-36/8	36	8	440	360	1100	185	95
FPQ-52/12	52	12	480	415	1255	220	110

绝缘子系列
Insulator series

• 复合支柱绝缘子 Post composite insulator

本产品适用于电站设施。具有良好的憎水性、抗老化性、耐漏电起痕性和耐电蚀损性，具有很高的抗张强度和抗弯强度，其机械强度高，抗冲击性能、防震和防脆断性，重量轻、安装方便，其顶部和底部安装尺寸与相应的瓷支柱安装尺寸相同，可以互换使用。

This product is applied to high voltage power line service.And have features of good gydrophobicity,anti-ageing.anti-leakage traceand electric erode proof, tensile strength and bending strength,strong mechanical strength,shock resistance good quakeproof and brittle failure proof,light welght,easy to installation,and the installation iutline of top and base are the same size with porcelainp in type,they can exchange to use each other.

• 主要技术参数 Main techical parameters

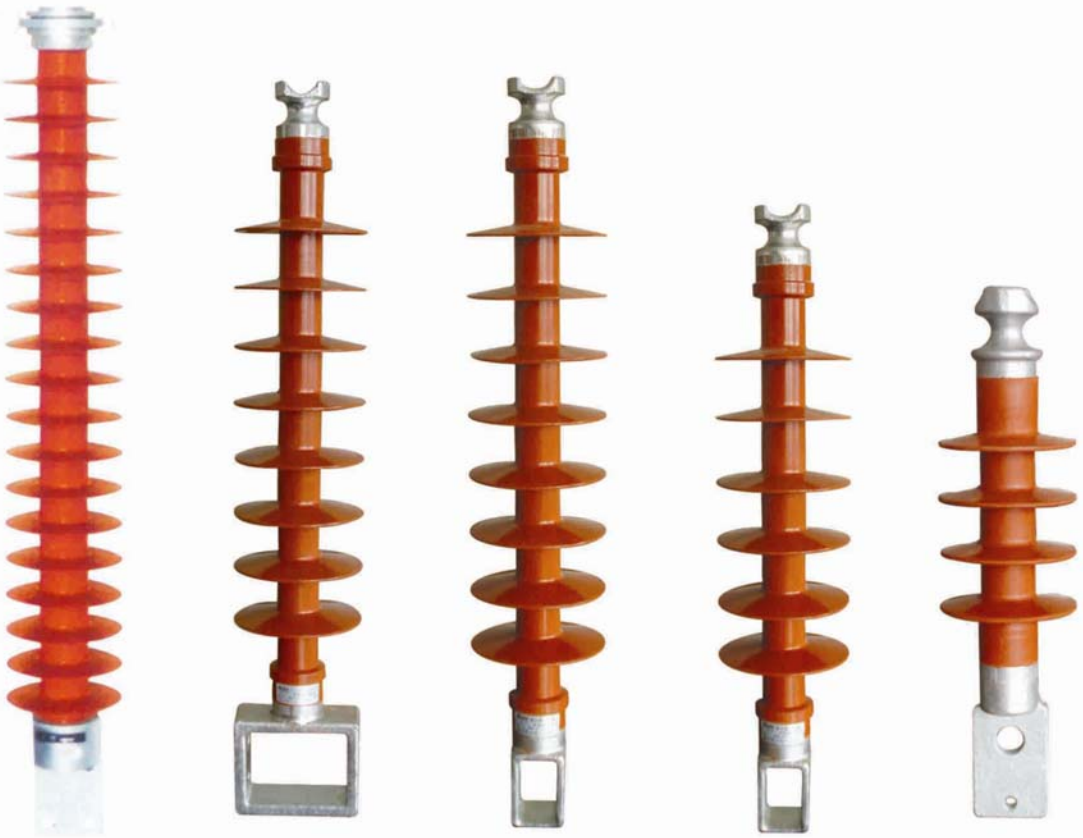
产品型号 Product Model	额定电压 Rated Voltage	额定机械负荷 Rated mechanical Bending load(KN)	结构高度 Structure height H.(mm)	绝缘距离 Insulating distance Li.(mm)	最小公称爬电距离 Min Creepaqe distance (mm)	伞径 Diameter of shed D.(mm)	雷电冲击耐受电压峰值 Lightning impulse withstand voltage (peak)(kV)	工频耐受电压有效值 P.F.withstand voltage (virtual value)(kV)
FZSW-10/4	10	4	215	125	290	100/90	75	42
FZSW-24/8	24	8	300	220	750	142	150	65
FZSW-35/6	35	6	450	360	946	148/118	185	95
FZSW-66/6	66	6	760	630	1886	160/130	410	185
FZSW-66/8	66	8	760	630	2010	220/190	410	185
FZSW-110/10	110	10	1220	1080	3530	220/190	500	230
FZSW-220/10	220	10	2440	2200	7060	220/190	1000	395

绝缘子系列
Insulator series

• 复合横担绝缘子 Cross-arm composite insulator

本产品适用于城网技术改造,能有效地利用城市狭窄的走廊面积升压送电,可降低杆塔高度,节约大量的财力物力。由于其弯曲强度高，可防止瓷横担容易出现的级连断裂事故，而且耐污性能好，是瓷横担无法替代的产品。

These products for the urban net rebuild can effctively solve the shortage of corridor in urban power line,reduce the pole height andeconomy lots of financial and material resources.Because of the high strengh,to avoid the porcelain cross-arm cannot instead of it.



• 主要技术参数 Main techical parameters

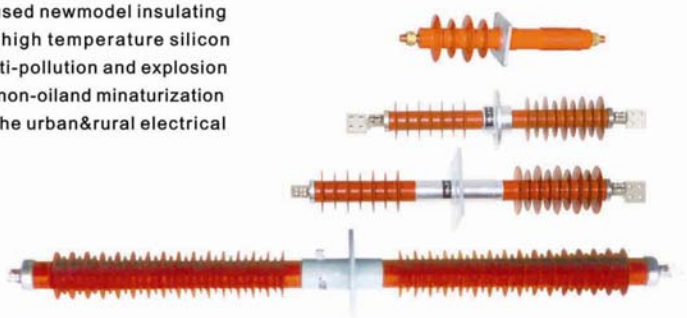
产品型号 Product Model	额定电压 Rated Voltage	额定机械负荷 Rated mechanical Bending load(KN)	结构高度 Structure height H.(mm)	绝缘距离 Insulating distance Li.(mm)	最小公称爬电距离 Min Creepage distance (mm)	伞径 Diameter of shed D.(mm)	雷电冲击耐受电压峰值 Lightning impulse withstand voltage (peak)(kV)	工频耐受电压有效值 P.F.withstand voltage (virtual value)(kV)
FS-10/5	10	5	250	180	380	90	75	42
FS-15/6	15	6	440	250	250	80	140	70
FSW-35/5	35	5	645	490	490	145/115	265	95
FS35/6	35	6	645	490	490	142	265	95
FS-110/10	110	10	1260	1100	1100	170	550	230

绝缘子系列
Insulator series

• 复合干式穿墙套管 Dry wall composite bushing

本产品是一种新型的穿墙套管,其内绝缘使用新型绝缘材料,外绝缘使用高性能高温硫化硅橡胶,具有优异的耐污能力和防爆性能,符合电力部门无油化,小型化的发展趋势,是满足城乡电网改造要求的新一代高压产品。

This product is a new model wall-through bushing,which used newmodel insulating material in the internal insultion,and used highperformance,high temperature silicon sulfide hydrocarbon in theexternal insulation,and have fine anti-pollution and explosion proof perfor mance,it accords with the trend in development of non-oiland minaturization of the power department,it is satisfied with therequirement of the urban&rural electrical net rebuild of the newgeneration high voltage products



• 主要技术参数 Main techical parmeters

产品型号 Product Model	额定电压 Rated Voltage	额定电流 Rated current (A)	雷电冲击耐受电压峰值 Lightning impulse withstand voltage (peak)(kV)	工频耐受电压有效值 P.F.wet withstand voltage(virtual value) (kV)	弯曲破坏负荷 Bend ing break load (N)	允许弯曲负荷 Permitted bending load (N)
FGCW-10/200~630	10	200~630	75	30	120	625
FGCW-35/630~1600	35	630~1600	200	80	1250	625
FGCW-66/630~1600	66	630~1600	325	147	1250	625
FGCW-110/630~1600	110	630~1600	550	230	1250	625

• 电气化铁道用复合绝缘子 Composite Insulator for electric-railway

本产品适用于运行条件复杂的电气化铁路隧道，能有效地防止污闪事故，减少清扫维护工作量。由于其尺寸小，在隧道净空较小时，是瓷，玻璃绝缘子无法替代的产品。

The products are suitable for electric-railway of complex operation conditions,can effectively prevent flash accidents and decrease the times of clear and maintenance.because of small volume, and when in the tunnel is clear products of porcelain, glass insulatorcan not instead of it.

• 主要技术参数 Main techical parmeters

产品型号 Product Model	额定电压 Rated Voltage	额定机械负荷 Rated mechanical Bending load(KN)	雷电冲击耐受电压峰值 Lightning impulse withstand voltage (peak)(kV)	工频耐受电压有效值 P.F.wet withstand voltage(virtual value) (kV)	最小公称爬电距离 Min Creepage distance (mm)	结构高度 Structure height H.(mm)
FQX1-25	25	60	270	130	1400	650
FQX2-25	25	60	270	130	1400	840
FQX3-25	25	60	270	130	1400	930
FQX4-25	25	60	270	130	1400	645
FQE1-25	25	60	270	130	1400	760
FQE2-25	25	60	270	130	1400	806
FQE3-25	25	60	270	130	1400	836
FQE4-25	25	60	270	130	1400	695