COMPANY PROFILE

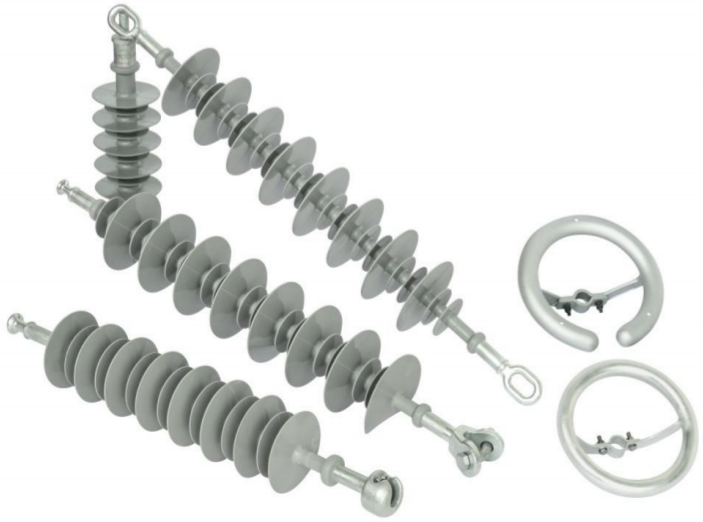
CYG Insulator Co.,Ltd.(CYG Insulator), the leading composite insulator manufacturer in china, a controlled subsidiary of Changyuan Technology Group Ltd.(SH: 600525), established in 1994 ,is an national hi-tech enterprise specially engaged in the research &design, manufacture and sales of composite insulators for transmission line(TL)，substation(SS), distribution line(DL), electrical railway(Rail),composite insulation components(CIC) and composite surge arrester for distribution line(CSA).

CYG Insulator has the capacity and ability of researching, manufacturing and inspection both ±1100kV HVDC and 1100kV HVAC and below voltage. The factory has the advanced manufacturing facilities covering two sets of 100% auto silicone rubber lines, over 30sets of whole injection machines along with 300 injection moldings and over 10 sets finpower-made crimpling machines. Also CYG Insulator has the test & inspection facilities covering the chemical/Physical lab, Mechanical Lab, Aging Lab and Electrical Lab.

Now CYG Insulator has been one of the biggest famous insulators' company in manufacturing technology, production capacity, product quality and market shares. And his products have recognized and praised by various consumers worldwidely

CYG Insulator is certified by ISO 9001/ISO14001/ISO45001

COMPOSITE INSULATOR FOR TRAMSMISSION LINE (STRING TYPE)



High voltage Composite Insulators offer the ultimate solution in improved performance. Because of its hydrophobicity, this material inherently resists water filming thereby limiting leakage currents. Insulators with reduced leakage currents, even when contaminated, require less frequent washing. The savings in such maintenance costs are added benefits of using silicone insulators.

Application: HV composite Insulators are used on overhead lines operating at or above 69 kV. HV Insulators from CYG are being widely used upto AC1000kV/DC1100KV EHV/UHV transmission lines. these insulators are working as the phase-spacer, jumper, cross-arm, line support, braced line supporter.

Component: HV composite Insulators are consisted of E-CR fiber reinforced polymer rod, metal fitting and housing materials. For voltage above 110KV, the corona ring shall be installed to optimize the electrical strength. The glass must be electrically and chemically stable (ECR glass) and the housing(including the sheath and sheds) must be HTV silicone rubber with high hydrophobicity and high tracking & erosion resistance performance.

Technology Innovation: For HTV SR, CYG has its own patent formula and its own patent of the production process; For process, CYG creats the unique whole molding injection/sealing process

DESIGNATION(String Insulator)

Letters CS (composite string)

Specific Mechanic Load in kN

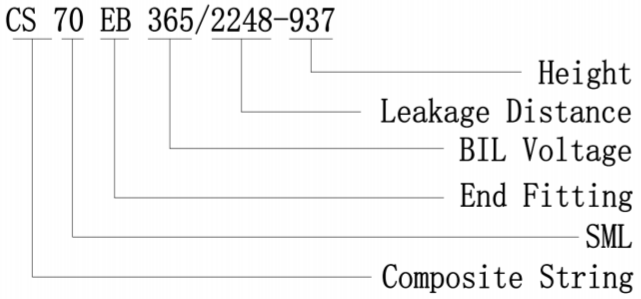
Two letters representing both end fittings, first one letter is for insulator fitting at tower/ground end and the second one letter is for insulator fitting at line end

Two numbers separated by a slash, the first one represents the lighting impulse withstand voltage in kV and the second one the minimum creepage distance in

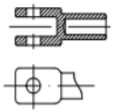
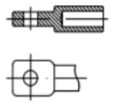
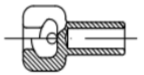
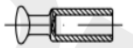
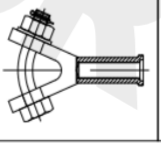
A dash followed by the total length in mm (this last information doesn't appear inthe IEC 61466)

Designation Example(CS 70 EB 365/2248-937)

Composite string insulator, Specific mechanic load equal to 70 kN, with an eye for the support-side and a ball for the conductor side, lighting impulse withstand voltage equal to 365 kV and minimum creepage distance of 2248 mm. Total length equal to 937 mm.



End Fitting

Fitting Type	Sketch	Catalog Code
Clevis		C
Tongue		T
Eye		E
Socket		S
Ball		B
Y-Clevis		Y

COMPOSITE INSULATORS CATAGLOGUES FOR HVAC(69-245kV)

SN	Designation	Voltage	Section Length	Minimum Arc Distance mm	Minimum Leakage Distance mm	BIL (kV)	One min Wet Power Frequency withstand Voltage(KV)	Tensile	Corona Ring
		Class（kV)	L（mm)					Strength(kN)	
1	CS120SB-450/1920-890-0	69	890	700	1920	450	220	70/100/120	0
2	CS120SB-450/2400-890-0	69	890	700	2400	450	220	70/100/120	0
3	CS160SB-450/2400-910-0	69	910	700	2400	450	220	160	0
4	CS120SB-750/3625-1440-1	132	1440	1250	3625	750	275	70/100/120	1
5	CS120SB-750/4500-1440-1	132	1440	1250	4500	750	275	70/100/120	1
6	CS160SB-750/4500-1480-1	132	1480	1200	4500	750	275	160	1
7	CS210SB-750/4500-1600-1	132	1600	1250	4500	750	275	180/210	1
8	CS120SB-850/4320-1600-1	161	1600	1425	4320	850	325	70/100/120	1
9	CS120SB-850/5400-1600-1	161	1600	1425	5400	850	325	70/100/120	1
10	CS160SB-850/5400-1660-1	161	1660	1425	5400	850	325	160	1
11	CS210SB-850/5400-1860-1	161	1860	1500	5400	850	325	180/210	1
12	CS120SB-1250/6125-2240-2	230	2240	2000	6125	1250	460	70/100/120	2
13	CS120SB-1250/7600-2240-2	230	2240	2000	7600	1250	460	70/100/120	2
14	CS160SB-1250/7600-2240-2	230	2240	1950	7600	1250	460	160	2
15	CS210SB-1250/7600-2450-2	230	2450	2050	7600	1250	460	180/210	2

Remark:

1) All the designs are in accordance with the ANSI/IEC relative standards and can also be customized as per actual request.

2)The other type/rating of end fittings are also available if needed.

COMPOSITE INSULATORS CATAGLOGUES FOR HVAC

No.	Model	Voltage Class(kV)	Section Length L（mm)	Minimum Arc Distance mm	Minimum Leakage Distance mm	BIL(kV)	1 min Wet Power Frequency Withstand Voltage(KV)	Tensile Strength(kN)	Corona Ring
1	CS120SB-1550/10800-3000	345	3000	2650	10800	1550	580	120	2
2	CS160SB-1550/8625-2700	345	2700	2320	8625	1550	580	160	2
3	CS210SB-1550/10695-3060	345	3060	2650	10695	1550	580	210	2
4	CS300SB-1550/13800-2950	345	2950	2450	13800	1550	580	300	2
5	CS120SB-1750/13020-3200	400	3200	2920	13020	1750	680	120	2
6	CS160SB-1750/16800-3530	400	3530	3200	16800	1750	680	160	2
7	CS210SB-1750/16800-3600	400	3600	3200	16800	1750	680	210	2
8	CS240SB-1750/16800-3630	400	3630	3200	16800	1750	680	240	2
9	CS300SB-1750/16800-4200	400	4200	3700	16800	1750	680	300	2
10	CS120SB-1950/17050-3750	500	3750	3450	17050	1950	780	120	2
11	CS160SB-1950/17050-4500	500	4500	4100	17050	1950	780	160	2
12	CS210SB-1950/17050-3910	500	3910	3450	17050	1950	780	210	2
13	CS240SB-1950/17050-3910	500	3910	3450	17050	1950	780	240	2
14	CS300SB-1950/17050-3980	500	3980	3450	17050	1950	780	300	2
15	CS120SB-3050/24800-7200	750	7200	6800	24800	3050	1550	120	2
16	CS160SB-3050/24800-7350	750	7350	6800	24800	3050	1550	160	2
17	CS240SB-3050/24800-7450	750	7450	6800	24800	3050	1550	240	2
18	CS300SB-3050/24800-7500	750	7500	6800	24800	3050	1550	300	2
19	CS420SB-3050/24800-7600	750	7600	6800	24800	3050	1550	420	2
20	CS550SB-3050/24800-7900	750	7900	7000	24800	3050	1550	550	2
21	CS160SB 3200-33197-9750	1000	9750	8200	33197	3200	1650	160	2
22	CS180SB 3200-33197-9750	1000	9750	8200	33197	3200	1650	180	2
23	CS240SB 3200-33197-9750	1000	9750	8200	33197	3200	1650	240	2
24	CS300SB 3200-40578-9750	1000	9750	8200	40578	3200	1650	300	2
25	CS420SB 3200-40422-9750	1000	9750	8200	40422	3200	1650	420	2
26	CS550SB 3200-38034-9750	1000	9750	8200	38034	3200	1650	550	2

Remark:

1) All the designs are in accordance with the ANSI/IEC relative standards and can also be customized as per actual request.
2) The other type/rating of end fittings are also available if needed.

COMPOSITE INSULATORS CATAGLOGUES FOR HVDC

No.	Designation	Voltage Class（kV)	Section Length L（mm)	Minimum Arc Distance mm	Minimum Leakage Distance mm	BIL(kV)	Tensile Strength(kN)	Corona Ring
1	CS160SB 2800-26693-8000	±400	8000	7500	26693	2800	160	2
2	CS300SB 2800-32756-8000	±400	8000	7500	32756	2800	300	2
3	CS550SB 2800-30575-8000	±400	8000	7500	30575	2800	550	2
4	CS160SB 2550-20642-6290	±500	6290	5800	20642	2550	160	2
5	CS300SB 2550-27416-6800	±500	6800	6000	27416	2550	300	2
6	CS550SB 2550-25482-6800	±500	6800	6000	25482	2550	550	2
7	CS160SB 2800-28640-8500	±660	8500	6800	28640	2800	160	2
8	CS160SB 2800-31200-9200	±660	9200	8800	31200	2800	160	2
9	CS550SB 2800-32891-8500	±660	8500	6800	32891	2800	550	2
10	CS550SB 2800-35667-9200	±660	9200	8800	35667	2800	550	2
11	CS160SB 3600-32633-9600	±800	9600	8900	32633	3600	160	2
12	CS160SB 3600-36114-10600	±800	10600	9900	36114	3600	160	2
13	CS160SB 3600-37547-11000	±800	11000	10300	37547	3600	160	2
14	CS160SB 3600-40414-11800	±800	11800	11100	40414	3600	160	2
15	CS550SB 3600-37365-9600	±800	9600	8900	37365	3600	550	2
16	CS550SB 3600-41738-10600	±800	10600	9900	41738	3600	550	2
17	CS550SB 3600-43436-11000	±800	11000	10300	43436	3600	550	2
18	CS550SB 3600-46831-11800	±800	11800	11100	46831	3600	550	2
19	CS160EE 4500-42361-12300	±1100	12300	11700	42361	4500	160	2
20	CS160EE 4500-48095-13900	±1100	13900	13300	48095	4500	160	2
21	CS160EE 4500-53522-15400	±1100	15400	14800	53522	4500	160	2
22	CS160EE 4500-57823-16600	±1100	16600	16000	57823	4500	160	2
23	CS1000EE 4500-52119-12300	±1100	12300	11300	52119	4500	1000	2
24	CS1000EE 4500-58857-13900	±1100	13900	12900	58857	4500	1000	2
25	CS1000EE 4500-65238-15400	±1100	15400	14400	65238	4500	1000	2
26	CS1000EE 4500-70292-16600	±1100	16600	15600	70292	4500	1000	2

Remark:
1) All the designs are in accordance with the ANSI/IEC relative standards and can also be customized as per actual request.
2) The other type/rating of end fittings are also available if needed.