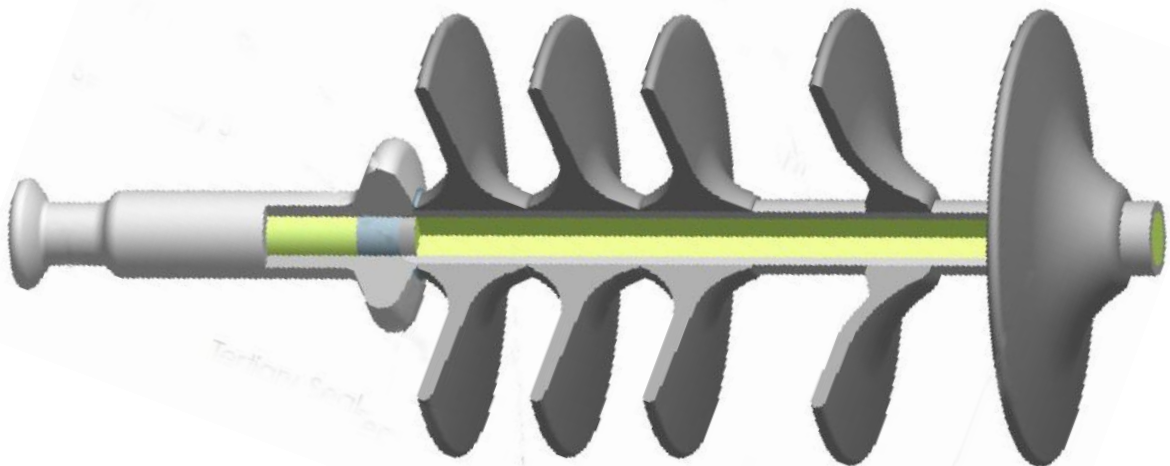


# NANJING CATALOG

## Composite Insulator Up to 765kV Application

Per IEC



**Nanjing Electric (Group) Co., Ltd.**

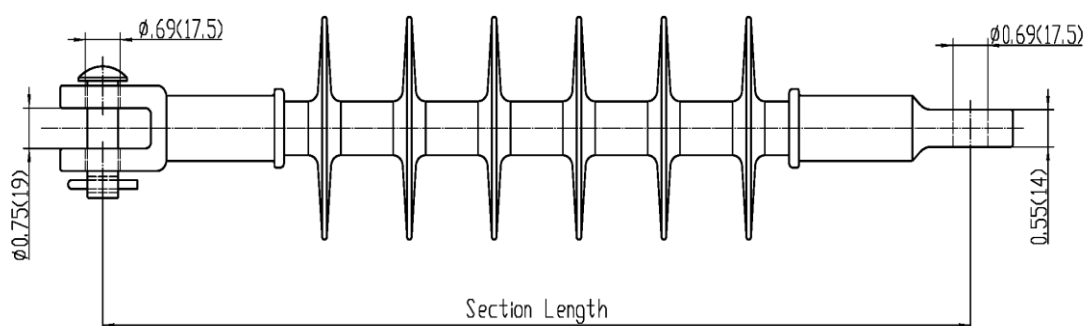
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# COMPOSITE INSULATOR

## 1. 15kV~69kV Composite Insulator

SML = 15,000 lbs • 70kN

RTL = 7,500 lbs • 35kN



Voltage kV	Cat. No.	Section Length. in	Leakage in	Dry Arc in	Flashover @ 60Hz		CIFO kV Dry	Wt. Pound
					Dry	Wet		
15	DS-15	13 (330)	7.6 (193)	15.8 (401)	90	65	140	2.3 (1.0)
28	DS-28	17 (430)	11.4 (290)	23.2 (590)	130	100	190	2.7 (1.2)
28/35	DS-25	18.75 (475)	14.3 (363)	31 (787)	140	125	210	2.9 (1.3)
35	DS-35	20.7 (526)	15.3 (389)	28.8 (731)	145	130	250	3.0 (1.36)
46	DS-46	23.2 (590)	17.8 (453)	35.5 (902)	180	145	280	3.3 (1.5)
69	DS-69	29.5 (750)	24.1 (613)	46.9 (1191)	220	185	360	4.1 (1.9)

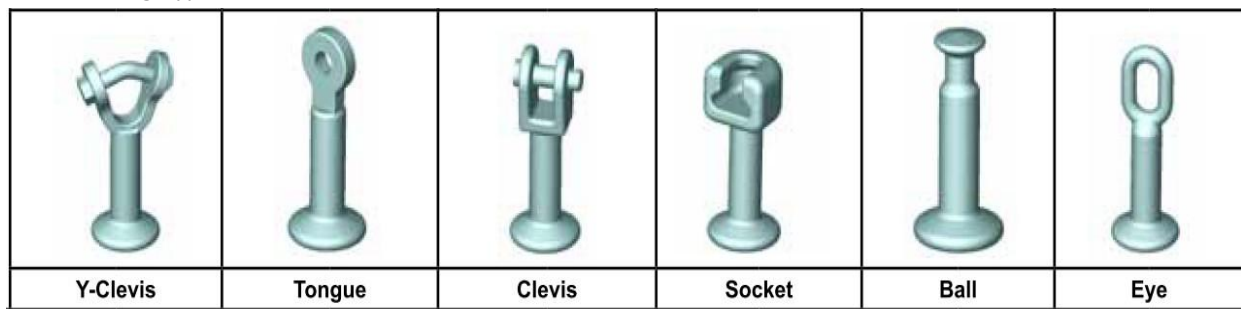
## 2. 69kV~765kV Composite Insulator

### 2.1. Catalog Definition:

# CS XX XX XXX X X

Composite Insulator	E:Eye Y:Y-Clevis type C: Clevis T:Tongue S:Socket B:Ball	Section Length (inch)	Shed Profile S:Standard U:Ultra C:Customer	Corona Ring A:None/None F: 12'' /12'' B: None/8'' G: 12'' /17'' C: None/12'' H: 17'' /17'' D: 8'' /12'' E: 8'' /17''
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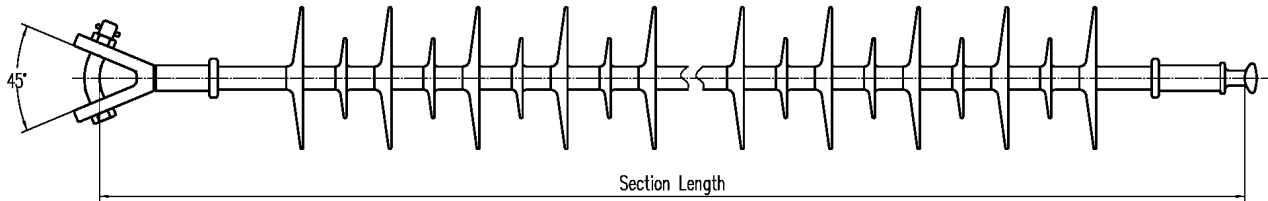
### 2.2. End Fitting Type:



	Code	SML	Class	Dimensions (in)			
				End Fitting	kN (klbs)	A	B
Oval Eye	E	25 (111) /30 (133)		0.67	1.18	2.36	0.74
		36 (160)	-	0.75	1.18	2.36	1.02
		50 (222)	-	0.75	1.18	2.36	1.02
		100 (445)	-	0.82	1.14	2.95	1.38
Y-Clevis	Y	25 (111) / 30 (133)		0.75	1.47		-
		36 (160)	-	0.75	1.73	-	-
		50 (222)	-	0.87	1.81	-	-
Socket	S	25 (111) / 30 (133)	ANSI 52-5				
		36 (160)	ANSI 52-8	-	-	-	-
		50 (222)	ANSI 52-11	-	-	-	-
		100 (445)	IEC 60120	-	-	-	-
Ball	B	25 (111) / 30 (133)	ANSI 52-5	0.72			
		36 (160)	ANSI 52-8	0.88	-	-	-
		50 (222)	ANSI 52-11	0.88	-	-	-
		100 (445)	IEC 60120	28mm	-	-	-
Clevis	C	25 (111) / 30 (133)	ANSI 52-6	1.20	0.89	0.75	1.4
		36 (160)	ANSI 52-10	1.20	1.1	0.89	2.0
		50 (222)	ANSI 52-12	1.46	1.25	1.03	2.2
Tongue	T	25 (111) / 30 (133)	ANSI 52-6	1.2	0.89	0.55	0.69
		36 (160)	ANSI 52-10	1.35	1.1	0.75	0.82
		50 (222)	ANSI 52-12	1.45	1.25	0.875	0.94

SML =25,000 lbs • 111kN  
 RTL =12,500 lbs • 56kN

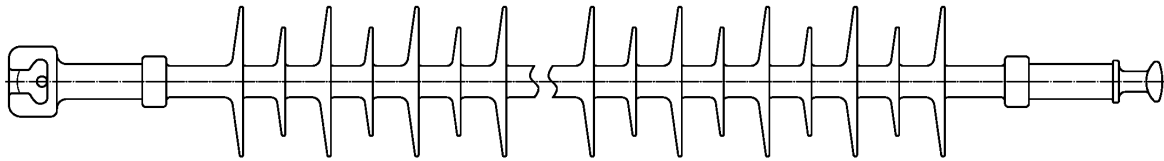
### YB Coupling



Voltage kV	Cat. No.	Section Length. in	Leakage in	Dry Arc in	Flashover @		CIFO kV		Wt. pounds	ANSI class
					Dry	Wet	+	-		
69	CS25YB036S-A	36(915)	64	27(686)	270	257	445	455	9(4.1)	-
	CS25YB036U-A		92(2337)							
69	CS25YB041S-A	41(1035)	72	32	305	285	506	516		-
	CS25YB041U-A		101							
69/115	CS25YB047S-A	47(1195)	89	38(965)	365	310	610	585	11(5)	60-1
	CS25YB047U-A		127(3226)							
115/138	CS25YB054S-A	54(1370)	106	45(1140)	410	350	675	670	12(5.5)	60-2
	CS25YB054U-A		138(3520)							
138	CS25YB060S-A	60(1525)	121	51(1295)	470	415	780	760	13(5.9)	60-3
	CS25YB060U-A		145(3680)							
138/161	CS25YB065S-A	65(1635)	140	56	485	455	860	845		60-4
	CS25YB065U-A		159							
161	CS25YB071S-A	71	141	62	560	490	925	930		60-5
	CS25YB071U-A		170							
161	CS25YB077S-A	77(1956)	157	68	620	540	1025	1015		60-6
	CS25YB077U-A		190							
161/230	CS25YB083S-B	83(2110)	187	74(1880)	670	580	1105	1105	15(6.8)	60-7
	CS25YB083U-B		215(5460)							
230	CS25YB088S-B	88(2240)	192	79(2000)	720	620	1185	1190	16(7.3)	60-8
	CS25YB088U-B		225(5715)							
230	CS25YB097S-B	97(2470)	234	88(2235)	810	690	1345	1360	20(9.1)	60-9
	CS25YB097U-B		295(7490)							
230	CS25YB107S-B	107	244	98	900	755	1490	1530		60-10
	CS25YB107U-B		305							
230	CS25YB114S-B	114	244	105	925	795	1575	1600		60-11
	CS25YB114U-B		305							
345	CS25YB120S-D	120(3085)	257	107(2720)	980	830	1665	1700	21(9.6)	60-12
	CS25YB120U-D		309(7850)							
345	CS25YB124S-D	124	286	111(2820)	1020	850	1700	1750		
	CS25YB124U-D		336							
345	CS25YB130S-D	130(3302)	296.4	117(2970)	1045	875	1780	1830		
	CS25YB130U-D		350.6							
345	CS25YB137S-E	137	307	123	1060	890	1825	1870		60-13
	CS25YB137U-E		382							
400	CS25YB142S-E	142(3607)	332(8430)	127	1160	1005	1980	2040	33	
	CS25YB142U-E		393(9995)							
500	CS25YB154S-G	154(3912)	412(10500)	139	1250	1070	2150	2220	44.1	
	CS25YB154U-G		511(12980)							

SML =30,000 lbs • 133kN  
RTL =15,000 lbs • 67kN

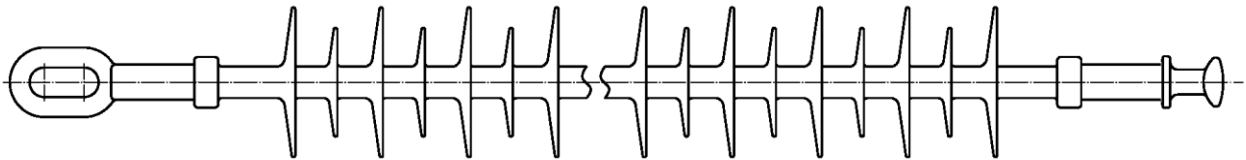
### SB Coupling



Voltage kV	Catalog No.	Section Length. in	Leakage in	Dry Arc in	Flashover @ 60Hz		CIFO kV		Wt. pounds
					dry	Wet	+	-	
69	CS30SB042S-A	42		34	333	306	545	557	7
	CS30SB042U-A								9
69/115	CS30SB048S-A	48	90	40	390	349	633	648	8
	CS30SB048U-A		133						11
115	CS30SB054S-A	54	101	46	449	393	724	741	8
	CS30SB054U-A		120						10
138	CS30SB060S-A	60	112	52	506	436	812	831	9
	CS30SB060U-A		141						11
161	CS30SB068S-A	68	130	60	583	494	930	953	10
	CS30SB068U-A		163						12
161	CS30SB074S-A	74	145	66	641	538	1019	1045	11
	CS30SB074U-A		178						13
161/230	CS30SB083S-B	83	168	75	726	603	1151	1181	12
	CS30SB083U-B		201						14
230	CS30SB089S-B	89	184	81	784	647	1240	1272	13
	CS30SB089U-B		231						16
230	CS30SB096S-B	96	153	88	850	696	1342	1377	11
	CS30SB096U-B		243						16
230/345	CS30SB104S-C	104	170	95	928	755	1461	1500	11
	CS30SB104U-C		241						16
345	CS30SB120S-E	120	243	111	1082	871	1698	1744	16
	CS30SB120U-E		333						21
345	CS30SB130S-E	130	281	121	1178	944	1846	1896	18
	CS30SB130U-E		352						22
345/500	CS30SB140S-E	140	301	130	1274	1016	1994	2049	19
	CS30SB140U-E		372						23
500	CS30SB170S-G	170	350	160	1562	1234	2438	2505	21
	CS30SB170U-G		482						29
500/765	CS30SB180S-H	180	398	169	1658	1305	2584	2656	24
	CS30SB180U-H		483						29
765	CS30SB195S-H	195	432	184	1801	1414	2806	2884	25
	CS30SB195U-H		526						31

**SML =50,000 lbs • 222kN**  
**RTL =25,000 lbs • 111kN**

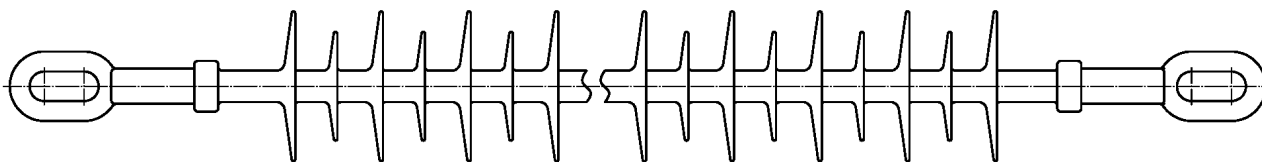
## EB Coupling



Voltage kV	Catalog No.	Section Length. in	Leakage in	Dry Arc in	Flashover @ 60Hz kV		CIFO kV		Wt. pounds	ANSI class
					dry	Wet	+	-		
69	CS50EB045S-A	45	73	32	314	292	516	527	14	-
	CS50EB045U-A		87						15	
115/138	CS50EB056S-A	56	103	43	419	371	678	694	17	-
	CS50EB056U-A		122						18	
138	CS50EB062S-A	62	114	49	477	415	767	786	17	-
	CS50EB062U-A		132						19	
138/161	CS50EB068S-A	68	129	55	535	458	856	877	19	-
	CS50EB068U-A		153						20	
161	CS50EB074S-A	74	140	61	593	502	945	968	19	-
	CS50EB074U-A		173						22	
161	CS50EB080S-A	80	155	67	650	545	1033	1059	21	70-1
	CS50EB080U-A		188						23	
230	CS50EB092S-B	92	181	79	765	632	1210	1241	23	70-2
	CS50EB092U-B		219						25	
230	CS50EB100S-B	100	199	87	843	691	1330	1365	24	70-3
	CS50EB100U-B		237						26	
230/345	CS50EB106S-C	106	162	92	898	745	1460	1452	21	70-4
	CS50EB106U-C		228						26	
345	CS50EB112S-E	112	211	98	958	777	1507	1547	25	70-4
	CS50EB112U-E		334						33	
345	CS50EB123S-E	123	231	109	1062	856	1667	1712	27	70-5
	CS50EB123U-E		364						36	
345	CS50EB134S-E	134	280	120	1169	937	1833	1882	30	70-6
	CS50EB134U-E		370						36	
345/500	CS50EB145S-G	145	315	130	1274	1016	1994	2048	33	70-8
	CS50EB145U-G		381						37	
500	CS50EB154S-G	154	333	139	1360	1081	2127	2185	34	70-9
	CS50EB154U-G		517						47	
500/765	CS50EB185S-H	185	402	170	1657	1306	2583	2655	39	70-11
	CS50EB185U-H		539						49	
765	CS50EB195S-H	195	431	180	1751	1376	2729	2805	42	-
	CS50EB195U-H		676						59	

**SML =10,000 lbs • 445kN**  
**RTL =50,000 lbs • 222kN**

### EE Coupling



Voltage kV	Catalog No.	Section Length. in	Leakage In	Dry Arc in	Flashover @ 60Hz kV		CIFO kV		Wt. pounds
					dry	Wet	+	-	
230	CS100EE110U-C	110	270	90	900	730	1420	1450	50
345	CS100EE130U-E	130	330	110	950	780	1600	1650	64
500	CS100EE180U-G	180	480	160	1600	1400	2500	2600	85
765	CS100EE200U-H	200	540	180	1750	1500	2700	2800	98