



CATALOG **011**

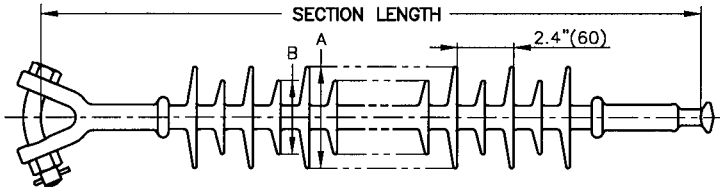
# **Polymer Suspension Insulators 69kV to 765kV**

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**NGK Locke Polymer Insulators, Inc.**  
**Virginia Beach, Virginia, U.S.A.**

# ANSI 25kip / SC, SS, SL Shed Series



Shed Type	Shed Diameter	
	A	B
"SC" Normal	ø3.0" (ø76mm)	ø3.0" (ø76mm)
"SS" Alternating	ø4.2" (ø106mm)	ø3.0" (ø76mm)
"SL" Alternating	ø5.2" (ø132mm)	ø4.0" (ø102mm)

Typical System Voltage (kV)	Catalog No.	No. of Sheds	Section Length			Leakage Distance (inch (mm))	Arcing Distance (inch (mm))	Low Frequency Flashover		Critical Impulse Flashover		Approx. Weight (lbs. (kg))
			YJ (inch (mm))	SJ (inch (mm))	EJ (inch (mm))			Dry kV	Wet kV	Positive kV	Negative kV	
69	251-SC210-YJ	21	36.0 (915)	35.4 (900)	36.4 (925)	58.7 (1491)	26.5 (674)	305	270	450	480	7.1 (3.2)
	251-SS210-YJ					71.5 (1816)	27.1 (688)	310	275	460	490	8.1 (3.7)
	251-SL210-YJ					92.8 (2356)	27.9 (708)	320	280	470	505	10.1 (4.6)
69	251-SC250-YJ	25	40.7 (1035)	40.2 (1020)	41.1 (1045)	69.9 (1775)	31.2 (794)	350	310	525	560	7.6 (3.5)
	251-SS250-YJ					85.0 (2159)	31.8 (808)	355	310	535	565	8.9 (4.0)
	251-SL250-YJ					110.3 (2802)	32.6 (828)	360	320	545	580	11.3 (5.1)
69/115	251-SC280-YJ	28	44.3 (1125)	43.7 (1110)	44.7 (1135)	78.3 (1988)	34.8 (884)	380	340	580	615	8.1 (3.7)
	251-SS280-YJ					94.5 (2401)	35.1 (892)	385	340	585	620	9.4 (4.3)
	251-SL280-YJ					122.9 (3122)	35.8 (909)	390	345	595	630	12.1 (5.5)
69/115	251-SC310-YJ	31	47.8 (1215)	47.2 (1200)	48.1 (1225)	86.7 (2201)	38.3 (974)	415	365	635	675	8.5 (3.9)
	251-SS310-YJ					105.2 (2673)	38.9 (988)	420	370	645	680	10.1 (4.6)
	251-SL310-YJ					136.7 (3471)	39.7 (1008)	430	380	655	695	13.0 (5.9)
115/138	251-SC350-YJ	35	52.6 (1335)	52.0 (1320)	53.0 (1345)	97.8 (2485)	43.1 (1094)	460	405	705	750	9.1 (4.1)
	251-SS350-YJ					118.7 (3016)	43.6 (1108)	465	410	715	760	10.8 (4.9)
	251-SL350-YJ					154.2 (3917)	44.4 (1128)	470	420	730	770	14.2 (6.4)
138	251-SC390-YJ	39	57.3 (1455)	56.7 (1440)	57.7 (1465)	109.0 (2769)	47.8 (1214)	505	445	780	825	9.6 (4.4)
	251-SS390-YJ					132.2 (3359)	48.4 (1228)	510	450	790	835	11.6 (5.3)
	251-SL390-YJ					171.8 (4363)	49.1 (1248)	515	460	800	850	15.3 (6.9)
138	251-SC410-YJ	41	59.6 (1515)	59.1 (1500)	60.0 (1525)	114.6 (2911)	50.2 (1274)	525	465	815	865	9.9 (4.5)
	251-SS410-YJ					139.0 (3531)	50.7 (1288)	530	470	825	875	11.9 (5.4)
	251-SL410-YJ					180.6 (4586)	51.5 (1308)	540	480	840	885	15.9 (7.2)
138/161	251-SC450-YJ	45	64.4 (1635)	63.8 (1620)	64.8 (1645)	125.8 (3195)	54.9 (1394)	570	505	890	940	10.5 (4.8)
	251-SS450-YJ					152.5 (3874)	55.4 (1408)	575	510	900	950	12.7 (5.8)
	251-SL450-YJ					198.1 (5032)	56.2 (1428)	580	520	910	965	17.0 (7.7)
161	251-SC500-YJ	50	70.3 (1785)	69.7 (1770)	70.7 (1795)	139.8 (3550)	60.8 (1544)	625	555	980	1040	11.2 (5.1)
	251-SS500-YJ					168.8 (4288)	61.1 (1552)	625	560	985	1045	13.6 (6.2)
	251-SL500-YJ					219.5 (5575)	61.8 (1569)	635	565	995	1055	18.4 (8.3)
161	251-SC550-YJ	55	76.2 (1935)	75.6 (1920)	76.8 (1950)	153.7 (3905)	66.7 (1695)	680	605	1075	1135	11.9 (5.4)
	251-SS550-YJ					186.3 (4731)	67.3 (1709)	685	610	1080	1145	14.6 (6.6)
	251-SL550-YJ					242.0 (6147)	68.1 (1729)	690	615	1095	1155	19.9 (9.0)

25kip Other End Fitting Combination Section Length Adjustment Table, Base Coupling: Eye-Ball (EJ), Inch					
Eye/Eye (EE)	+1.4	Clevis/Eye (CE)	+0.4	Clevis/Clevis (CC)	-0.6
Clevis/Ball (CJ)	-1.0	Y-Clevis/Y-Clevis (YY)	+0.5	Y-Clevis/Tongue (YT)	+0.5
Y-Clevis/Eye (YE)	+0.9	Y-Clevis/Socket (YS)	-0.1	Clevis/Tongue (CT)	0

Typical System Voltage (kV)	Catalog No.	No. of Sheds	Section Length			Leakage Distance inch (mm)	Arcing Distance inch (mm)	Low Frequency Flashover		Critical Impulse Flashover		Approx. Weight lbs. (kg)
			YJ inch (mm)	SJ inch (mm)	EJ inch (mm)			Dry kV	Wet kV	Positive kV	Negative kV	
161/230	251-SC590-YJ	59	80.9 (2055)	80.3 (2040)	81.5 (2070)	164.9 (4189)	71.4 (1815)	725	645	1145	1210	12.5 (5.7)
	251-SS590-YJ					199.8 (5074)	72.0 (1829)	730	650	1155	1220	15.4 (7.0)
	251-SL590-YJ					259.6 (6593)	72.8 (1849)	735	655	1170	1235	21.0 (9.5)
230	251-SC640-YJ	64	86.8 (2205)	86.2 (2190)	87.4 (2220)	178.9 (4544)	77.4 (1965)	780	695	1240	1310	13.2 (6.0)
	251-SS640-YJ					216.1 (5488)	77.7 (1973)	780	700	1245	1315	16.3 (7.4)
	251-SL640-YJ					280.9 (7136)	78.3 (1990)	785	705	1255	1325	22.4 (10.2)
230	251-SC690-YJ	69	92.7 (2355)	92.1 (2340)	93.3 (2370)	192.9 (4899)	83.3 (2115)	835	745	1330	1405	13.9 (6.3)
	251-SS690-YJ					233.5 (5932)	83.8 (2129)	840	750	1340	1415	17.3 (7.9)
	251-SL690-YJ					303.5 (7708)	84.6 (2149)	845	755	1350	1425	23.9 (10.8)
230/345	251-SC740-YJ	74	98.6 (2505)	98.0 (2490)	99.2 (2520)	206.9 (5254)	89.2 (2265)	890	795	1420	1500	14.6 (6.6)
	251-SS740-YJ					249.8 (6346)	89.5 (2273)	890	795	1425	1505	18.2 (8.3)
	251-SL740-YJ					324.8 (8251)	90.2 (2290)	895	805	1435	1515	25.3 (11.5)
230/345	251-SC780-YJ	78	103.3 (2625)	102.8 (2610)	103.9 (2640)	218.0 (5538)	93.9 (2385)	930	835	1495	1575	15.2 (6.9)
	251-SS780-YJ					263.3 (6689)	94.2 (2393)	935	835	1500	1580	19.0 (8.6)
	251-SL780-YJ					342.4 (8697)	94.9 (2410)	940	845	1510	1595	26.4 (12.0)
345	251-SC810-YJ	81	106.9 (2715)	106.3 (2700)	107.5 (2730)	226.4 (5751)	97.5 (2475)	965	865	1550	1635	15.6 (7.1)
	251-SS810-YJ					274.0 (6961)	98.0 (2489)	970	870	1560	1645	19.6 (8.9)
	251-SL810-YJ					356.1 (9046)	98.8 (2509)	975	875	1570	1655	27.3 (12.4)
345	251-SC860-YJ	86	112.8 (2865)	112.2 (2850)	113.4 (2880)	240.4 (6106)	103.4 (2626)	1010	905	1640	1730	16.4 (7.4)
	251-SS860-YJ					290.3 (7375)	103.7 (2634)	1010	905	1645	1735	20.5 (9.3)
	251-SL860-YJ					377.5 (9589)	104.4 (2651)	1015	910	1655	1745	28.7 (13.0)
345	251-SC910-YJ	91	118.7 (3015)	118.3 (3005)	119.3 (3030)	254.4 (6461)	109.3 (2776)	1050	940	1735	1825	17.1 (7.7)
	251-SS910-YJ					307.8 (7818)	109.8 (2790)	1050	940	1740	1835	21.5 (9.8)
	251-SL910-YJ					400.0 (10161)	110.6 (2810)	1055	945	1755	1850	30.2 (13.7)
345	251-SC1000-YJ	100	129.3 (3285)	128.9 (3275)	129.9 (3300)	279.5 (7100)	119.9 (3046)	1115	1000	1900	2000	18.4 (8.3)
	251-SS1000-YJ					337.6 (8575)	120.2 (3054)	1115	1000	1905	2005	23.2 (10.5)
	251-SL1000-YJ					439.0 (11150)	120.9 (3071)	1120	1005	1915	2015	32.7 (14.8)
345/500	251-SC1090-YJ	109	140.0 (3555)	139.6 (3545)	140.6 (3570)	304.7 (7739)	130.6 (3316)	1180	1055	2065	2170	19.6 (8.9)
	251-SS1090-YJ					368.6 (9362)	131.1 (3330)	1185	1060	2070	2180	24.9 (11.3)
	251-SL1090-YJ					479.1 (12168)	131.9 (3350)	1185	1065	2085	2195	35.3 (16.0)

Approx. Weight is for Y-clevis & Ball unless otherwise specified.

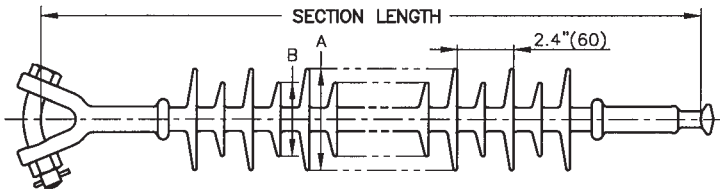
Test methods and criteria are in accordance with ANSI C29.11 and ANSI C29.12.

All tables show the typical products. Please contact NLPI for other dimensions and end fitting combinations.

Electrical values exceeding the capacity (AC FOV>1200kV, L.I. FOV>3000kV) are presumed by the extrapolation of values obtained from short string unit.



# ANSI 30kip / SC, SS, SL Shed Series



Shed Type	Shed Diameter	
	A	B
"SC" Normal	ø3.0 (ø76mm)	ø3.0 (ø76mm)
"SS" Alternating	ø4.2 (ø106mm)	ø3.0 (ø76mm)
"SL" Alternating	ø5.2 (ø132mm)	ø4.0 (ø102mm)

Typical System Voltage (kV)	Catalog No.	No. of Sheds	Section Length			Leakage Distance (inch (mm))	Arcing Distance (inch (mm))	Low Frequency Flashover		Critical Impulse Flashover		Approx. Weight (lbs. (kg))
			YJ (inch (mm))	SJ (inch (mm))	EJ (inch (mm))			Dry kV	Wet kV	Positive kV	Negative kV	
69	301-SC210-YJ	21	37.8 (960)	36.8 (935)	38.0 (965)	58.7 (1491)	26.5 (674)	305	270	450	480	7.7 (3.5)
	301-SS210-YJ					71.5 (1816)	27.1 (688)	310	275	460	490	8.8 (4.0)
	301-SL210-YJ					92.8 (2356)	27.9 (708)	320	280	470	505	10.8 (4.9)
69	301-SC250-YJ	25	42.5 (1080)	41.5 (1055)	42.7 (1085)	69.9 (1775)	31.2 (794)	350	310	525	560	8.3 (3.8)
	301-SS250-YJ					85.0 (2159)	31.8 (808)	355	310	535	565	9.7 (4.4)
	301-SL250-YJ					110.3 (2802)	32.6 (828)	360	320	545	580	11.9 (5.4)
69/115	301-SC280-YJ	28	46.1 (1170)	45.1 (1145)	46.3 (1175)	78.3 (1988)	34.8 (884)	380	340	580	615	8.8 (4.0)
	301-SS280-YJ					94.5 (2401)	35.1 (892)	385	340	585	620	10.1 (4.6)
	301-SL280-YJ					122.9 (3122)	35.8 (909)	390	345	595	630	12.8 (5.8)
69/115	301-SC310-YJ	31	49.6 (1260)	48.6 (1235)	49.8 (1265)	86.7 (2201)	38.3 (974)	415	365	635	675	9.3 (4.2)
	301-SS310-YJ					105.2 (2673)	38.9 (988)	420	370	645	680	10.8 (4.9)
	301-SL310-YJ					136.7 (3471)	39.7 (1008)	430	380	655	695	13.7 (6.2)
115/138	301-SC350-YJ	35	54.3 (1380)	53.3 (1355)	54.5 (1385)	97.8 (2485)	43.1 (1094)	460	405	705	750	9.7 (4.4)
	301-SS350-YJ					118.7 (3016)	43.6 (1108)	465	410	715	760	11.5 (5.2)
	301-SL350-YJ					154.2 (3917)	44.4 (1128)	470	420	730	770	14.8 (6.7)
138	301-SC390-YJ	39	59.1 (1500)	58.1 (1475)	59.3 (1505)	109.0 (2769)	47.8 (1214)	505	445	780	825	10.4 (4.7)
	301-SS390-YJ					132.2 (3359)	48.4 (1228)	510	450	790	835	12.3 (5.6)
	301-SL390-YJ					171.8 (4363)	49.1 (1248)	515	460	800	850	16.1 (7.3)
138/161	301-SC450-YJ	45	66.1 (1680)	65.2 (1655)	66.3 (1685)	125.8 (3195)	54.9 (1394)	570	505	890	940	11.2 (5.1)
	301-SS450-YJ					152.5 (3874)	55.4 (1408)	575	510	900	950	13.5 (6.1)
	301-SL450-YJ					198.1 (5032)	56.2 (1428)	580	520	910	965	17.6 (8.0)
161	301-SC500-YJ	50	72.0 (1830)	71.1 (1805)	72.2 (1835)	139.8 (3550)	60.8 (1544)	625	555	980	1040	11.9 (5.4)
	301-SS500-YJ					168.8 (4288)	61.1 (1552)	625	560	985	1045	14.3 (6.5)
	301-SL500-YJ					219.5 (5575)	61.8 (1569)	635	565	995	1055	19.2 (8.7)
161	301-SC550-YJ	55	78.0 (1980)	77.0 (1955)	78.1 (1985)	153.7 (3905)	66.7 (1695)	680	605	1075	1135	12.6 (5.7)
	301-SS550-YJ					186.3 (4731)	67.3 (1709)	685	610	1080	1145	15.4 (7.0)
	301-SL550-YJ					242.0 (6147)	68.1 (1729)	690	615	1095	1155	20.5 (9.3)
161/230	301-SC590-YJ	59	82.7 (2100)	81.7 (2075)	82.9 (2105)	164.9 (4189)	71.4 (1815)	725	645	1145	1210	13.2 (6.0)
	301-SS590-YJ					199.8 (5074)	72.0 (1829)	730	650	1155	1220	16.1 (7.3)
	301-SL590-YJ					259.6 (6593)	72.8 (1849)	735	655	1170	1235	21.8 (9.9)

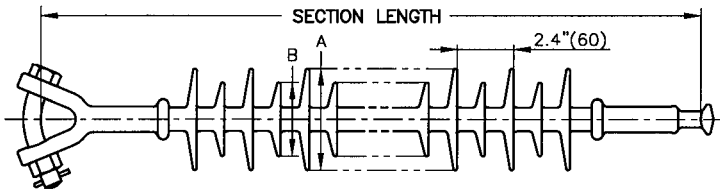
30kip Other End Fitting Combination Section Length Adjustment Table, Base Coupling: Eye-Ball (EJ), Inch			
Eye/Eye (EE)	+1.5	Y-Clevis/Y-Clevis (YY)	+1.1
Y-Clevis/Eye (YE)	+1.3	Y-Clevis/Socket (YS)	+0.1

Please contact NLPI for additional end fittings and combinations, including Clevis and Tongue hardware.

Typical System Voltage (kV)	Catalog No.	No. of Sheds	Section Length			Leakage Distance (inch (mm))	Arcing Distance (inch (mm))	Low Frequency Flashover		Critical Impulse Flashover		Approx. Weight lbs. (kg)
			YJ (inch (mm))	SJ (inch (mm))	EJ (inch (mm))			Dry kV	Wet kV	Positive kV	Negative kV	
230	301-SC640-YJ	64	88.6 (2250)	87.6 (2225)	88.8 (2255)	178.9 (4544)	77.4 (1965)	780	695	1240	1310	13.9 (6.3)
	216.1 (5488)					77.7 (1973)	780	700	1245	1315	17.0 (7.7)	
	280.9 (7136)					78.3 (1990)	785	705	1255	1325	23.2 (10.5)	
230	301-SC690-YJ	69	94.5 (2400)	93.5 (2375)	94.7 (2405)	192.9 (4899)	83.3 (2115)	835	745	1330	1405	14.6 (6.6)
	233.5 (5932)					83.8 (2129)	840	750	1340	1415	18.1 (8.2)	
	303.5 (7708)					84.6 (2149)	845	755	1350	1425	24.7 (11.2)	
230/345	301-SC730-YJ	73	99.2 (2520)	98.2 (2495)	99.4 (2525)	204.1 (5183)	88.0 (2235)	875	785	1405	1480	15.2 (6.9)
	247.0 (6275)					88.5 (2249)	880	790	1410	1490	18.7 (8.5)	
	321.0 (8154)					89.3 (2269)	890	795	1425	1500	25.8 (11.7)	
345	301-SC810-YJ	81	108.7 (2760)	107.7 (2735)	108.9 (2765)	226.4 (5751)	97.5 (2475)	965	865	1550	1635	16.3 (7.4)
	274.0 (6961)					98.0 (2489)	970	870	1560	1645	20.3 (9.2)	
	356.1 (9046)					98.8 (2509)	975	875	1570	1655	28.0 (12.7)	
345	301-SC910-YJ	91	120.5 (3060)	119.5 (3035)	120.7 (3065)	254.4 (6461)	109.3 (2776)	1050	940	1735	1825	17.9 (8.1)
	307.8 (7818)					109.8 (2790)	1050	940	1740	1835	22.3 (10.1)	
	400.0 (10161)					110.6 (2810)	1055	945	1755	1850	30.9 (14.0)	
345	301-SC1000-YJ	100	131.1 (3330)	130.1 (3305)	131.3 (3335)	279.5 (7100)	119.9 (3046)	1115	1000	1900	2000	19.2 (8.7)
	337.6 (8575)					120.2 (3054)	1115	1000	1905	2005	23.8 (10.8)	
	439.0 (11150)					120.9 (3071)	1120	1005	1915	2015	33.5 (15.2)	
345/500	301-SC1090-YJ	109	141.7 (3600)	140.7 (3575)	141.9 (3605)	304.7 (7739)	130.6 (3316)	1180	1055	2065	2170	20.3 (9.2)
	368.6 (9362)					131.1 (3330)	1185	1060	2070	2180	25.6 (11.6)	
	479.1 (12168)					131.9 (3350)	1185	1065	2085	2195	36.2 (16.4)	
500	301-SC1170-YJ	117	151.2 (3840)	150.2 (3815)	151.4 (3845)	327.0 (8307)	140.0 (3556)	1235	1105	2210	2325	21.6 (9.8)
	395.6 (10048)					140.6 (3570)	1235	1110	2220	2335	27.1 (12.3)	
	514.2 (13060)					141.4 (3590)	1240	1110	2230	2350	38.4 (17.4)	
500	301-SC1310-YJ	131	167.7 (4260)	166.7 (4235)	168.1 (4270)	366.2 (9301)	156.6 (3977)	1325	1185	2465	2595	23.6 (10.7)
	442.8 (11248)					157.1 (3991)	1325	1190	2475	2605	29.8 (13.5)	
	575.6 (14621)					157.9 (4011)	1330	1190	2485	2615	42.3 (19.2)	
500/765	301-SC1410-YJ	141	179.7 (4565)	178.5 (4535)	179.9 (4570)	394.1 (10011)	168.4 (4277)	1385	1240	2650	2785	24.9 (11.3)
	476.6 (12106)					168.9 (4291)	1390	1245	2660	2795	31.8 (14.4)	
	619.5 (15736)					169.7 (4311)	1390	1245	2670	2810	45.2 (20.5)	
765	301-SC1530-YJ	153	193.9 (4925)	192.7 (4895)	194.1 (4930)	427.7 (10863)	182.6 (4638)	1455	1305	2870	3020	26.7 (12.1)
	517.1 (13135)					183.1 (4652)	1455	1305	2875	3025	34.2 (15.5)	
	672.2 (17074)					183.9 (4672)	1460	1310	2890	3040	48.7 (22.1)	



# ANSI 50kip / SC, SS, SL Shed Series



Shed Type	Shed Diameter	
	A	B
"SC" Normal	ø3.3" (ø84mm)	ø3.3" (ø84mm)
"SS" Alternating	ø4.5" (ø114mm)	ø3.3" (ø84mm)
"SL" Alternating	ø5.5" (ø140mm)	ø4.3" (ø110mm)

Typical System Voltage (kV)	Catalog No.	No. of Sheds	Section Length			Leakage Distance (inch (mm))	Arcing Distance (inch (mm))	Low Frequency Flashover		Critical Impulse Flashover		Approx. Weight (lbs. (kg))
			YK (inch (mm))	SK (inch (mm))	EK (inch (mm))			Dry kV	Wet kV	Positive kV	Negative kV	
69	502-SC210-YK	21	40.0 (1015)	39.6 (1005)	40.2 (1020)	58.7 (1491)	26.5 (674)	305	270	450	480	11.7 (5.3)
	502-SS210-YK					71.5 (1816)	27.1 (688)	310	275	460	490	12.9 (5.9)
	502-SL210-YK					92.8 (2356)	27.9 (708)	320	280	470	505	15.2 (6.9)
69	502-SC250-YK	25	44.7 (1135)	44.3 (1125)	44.9 (1140)	69.9 (1775)	31.2 (794)	350	310	525	560	12.5 (5.7)
	502-SS250-YK					85.0 (2159)	31.8 (808)	355	310	535	565	13.9 (6.3)
	502-SL250-YK					110.3 (2802)	32.6 (828)	360	320	545	580	16.6 (7.5)
69/115	502-SC280-YK	28	48.2 (1225)	47.8 (1215)	48.4 (1230)	78.3 (1988)	34.8 (884)	380	340	580	615	13.1 (6.0)
	502-SS280-YK					94.5 (2401)	35.1 (892)	385	340	585	620	14.6 (6.6)
	502-SL280-YK					122.9 (3122)	35.8 (909)	390	345	595	630	17.6 (8.0)
69/115	502-SC310-YK	31	51.8 (1315)	51.4 (1305)	52.0 (1320)	86.7 (2201)	38.3 (974)	415	365	635	675	13.7 (6.2)
	502-SS310-YK					105.2 (2673)	38.9 (988)	420	370	645	680	15.4 (7.0)
	502-SL310-YK					136.7 (3471)	39.7 (1008)	430	380	655	695	18.8 (8.5)
115/138	502-SC350-YK	35	56.5 (1435)	56.1 (1425)	56.7 (1440)	97.8 (2485)	43.1 (1094)	460	405	705	750	14.5 (6.6)
	502-SS350-YK					118.7 (3016)	43.6 (1108)	465	410	715	760	16.4 (7.5)
	502-SL350-YK					154.2 (3917)	44.4 (1128)	470	420	730	770	20.2 (9.2)
138	502-SC390-YK	39	61.2 (1555)	60.8 (1545)	61.4 (1560)	109.0 (2769)	47.8 (1214)	505	445	780	825	15.3 (6.9)
	502-SS390-YK					132.2 (3359)	48.4 (1228)	510	450	790	835	17.5 (7.9)
	502-SL390-YK					171.8 (4363)	49.1 (1248)	515	460	800	850	21.6 (9.8)
138/161	502-SC450-YK	45	68.3 (1735)	67.9 (1725)	68.5 (1740)	125.8 (3195)	54.9 (1394)	570	505	890	940	16.5 (7.5)
	502-SS450-YK					152.5 (3874)	55.4 (1408)	575	510	900	950	19.0 (8.6)
	502-SL450-YK					198.1 (5032)	56.2 (1428)	580	520	910	965	23.8 (10.8)
161	502-SC500-YK	50	74.2 (1885)	73.8 (1875)	74.4 (1890)	139.8 (3550)	60.8 (1544)	625	555	980	1040	17.5 (7.9)
	502-SS500-YK					168.8 (4288)	61.1 (1552)	625	560	985	1045	20.2 (9.2)
	502-SL500-YK					219.5 (5575)	61.8 (1569)	635	565	995	1055	25.5 (11.6)
161	502-SC550-YK	55	80.1 (2035)	79.7 (2025)	80.5 (2045)	153.7 (3905)	66.7 (1695)	680	605	1075	1135	18.5 (8.4)
	502-SS550-YK					186.3 (4731)	67.3 (1709)	685	610	1080	1145	21.5 (9.8)
	502-SL550-YK					242.0 (6147)	68.1 (1729)	690	615	1095	1155	27.4 (12.4)
161/230	502-SC590-YK	59	84.8 (2155)	84.4 (2145)	85.2 (2165)	164.9 (4189)	71.4 (1815)	725	645	1145	1210	19.3 (8.8)
	502-SS590-YK					199.8 (5074)	72.0 (1829)	730	650	1155	1220	22.5 (10.2)
	502-SL590-YK					259.6 (6593)	72.8 (1849)	735	655	1170	1235	28.9 (13.1)

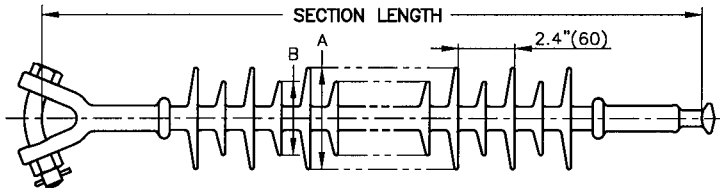


50kip Other End Fitting Combination Section Length Adjustment Table, Base Coupling: Eye-Ball (EK), Inch					
Eye/Eye (EE)	+1.4	Clevis/Eye (CE)	+1.2	Clevis/Clevis (CC)	+0.9
Clevis/Ball (CK)	-0.3	Y-Clevis/Y-Clevis (YY)	+0.6	Y-Clevis/Tongue (YT)	+1.0
Y-Clevis/Eye (YE)	+1.0	Y-Clevis/Socket (YS)	+0.3	Clevis/Tongue (CT)	+1.1

Typical System Voltage (kV)	Catalog No.	No. of Sheds	Section Length			Leakage Distance inch (mm)	Arcing Distance inch (mm)	Low Frequency Flashover		Critical Impulse Flashover		Approx. Weight lbs. (kg)
			YK inch (mm)	SK inch (mm)	EK inch (mm)			Dry kV	Wet kV	Positive kV	Negative kV	
230	502-SC640-YK	64	90.7 (2305)	90.4 (2295)	91.1 (2315)	178.9 (4544)	77.4 (1965)	780	695	1240	1310	20.3 (9.2)
	502-SS640-YK					216.1 (5488)	77.7 (1973)	780	700	1245	1315	23.7 (10.8)
	502-SL640-YK					280.9 (7136)	78.3 (1990)	785	705	1255	1325	30.6 (13.9)
230	502-SC690-YK	69	96.7 (2455)	96.3 (2445)	97.0 (2465)	192.9 (4899)	83.3 (2115)	835	745	1330	1405	21.3 (9.7)
	502-SS690-YK					233.5 (5932)	83.8 (2129)	840	750	1340	1415	25.1 (11.4)
	502-SL690-YK					303.5 (7708)	84.6 (2149)	845	755	1350	1425	32.5 (14.7)
230/345	502-SC730-YK	73	101.4 (2575)	101.0 (2565)	101.8 (2585)	204.1 (5183)	88.0 (2235)	875	785	1405	1480	22.1 (10.0)
	502-SS730-YK					247.0 (6275)	88.5 (2249)	880	790	1410	1490	26.1 (11.8)
	502-SL730-YK					321.0 (8154)	89.3 (2269)	890	795	1425	1500	33.9 (15.4)
345	502-SC810-YK	81	110.8 (2815)	110.4 (2805)	111.2 (2825)	226.4 (5751)	97.5 (2475)	965	865	1550	1635	23.7 (10.8)
	502-SS810-YK					274.0 (6961)	98.0 (2489)	970	870	1560	1645	28.1 (12.8)
	502-SL810-YK					356.1 (9046)	98.8 (2509)	975	875	1570	1655	36.8 (16.7)
345	502-SC910-YK	91	122.6 (3115)	122.4 (3110)	123.0 (3125)	254.4 (6461)	109.3 (2776)	1050	940	1735	1825	25.7 (11.7)
	502-SS910-YK					307.8 (7818)	109.8 (2790)	1050	940	1740	1835	30.6 (13.9)
	502-SL910-YK					400.0 (10161)	110.6 (2810)	1055	945	1755	1850	40.4 (18.3)
345	502-SC1000-YK	100	133.3 (3385)	133.1 (3380)	133.7 (3395)	279.5 (7100)	119.9 (3046)	1115	1000	1900	2000	27.5 (12.5)
	502-SS1000-YK					337.6 (8575)	120.2 (3054)	1115	1000	1905	2005	32.8 (14.9)
	502-SL1000-YK					439.0 (11150)	120.9 (3071)	1120	1005	1915	2015	43.6 (19.8)
345/500	502-SC1090-YK	109	143.9 (3655)	143.7 (3650)	144.3 (3665)	304.7 (7739)	130.6 (3316)	1180	1055	2065	2170	29.3 (13.3)
	502-SS1090-YK					368.6 (9362)	131.1 (3330)	1185	1060	2070	2180	35.2 (16.0)
	502-SL1090-YK					479.1 (12168)	131.9 (3350)	1185	1065	2085	2195	46.9 (21.3)
500	502-SC1170-YK	117	153.3 (3895)	153.1 (3890)	153.7 (3905)	327.0 (8307)	140.0 (3556)	1235	1105	2210	2325	30.9 (14.0)
	502-SS1170-YK					395.6 (10048)	140.6 (3570)	1235	1110	2220	2335	37.2 (16.9)
	502-SL1170-YK					514.2 (13060)	141.4 (3590)	1240	1110	2230	2350	49.8 (22.6)
500	502-SC1310-YK	131	169.9 (4315)	169.7 (4310)	170.3 (4325)	366.2 (9301)	156.6 (3977)	1325	1185	2465	2595	33.7 (15.3)
	502-SS1310-YK					442.8 (11248)	157.1 (3991)	1325	1190	2475	2605	40.8 (18.5)
	502-SL1310-YK					575.6 (14621)	157.9 (4011)	1330	1190	2485	2615	54.8 (24.9)
500/765	502-SC1410-YK	141	181.7 (4615)	181.5 (4610)	182.1 (4625)	394.1 (10011)	168.4 (4277)	1385	1240	2650	2785	35.7 (16.2)
	502-SS1410-YK					476.6 (12106)	168.9 (4291)	1390	1245	2660	2795	43.3 (19.7)
	502-SL1410-YK					619.5 (15736)	169.7 (4311)	1390	1245	2670	2810	58.4 (26.5)
765	502-SC1530-YK	153	196.1 (4980)	195.7 (4970)	196.3 (4985)	427.7 (10863)	182.6 (4638)	1455	1305	2870	3020	38.1 (17.3)
	502-SS1530-YK					517.1 (13135)	183.1 (4652)	1455	1305	2875	3025	46.3 (21.0)
	502-SL1530-YK					672.2 (17074)	183.9 (4672)	1460	1310	2890	3040	62.7 (28.5)



# Extra Long Leakage -- ANSI 25kip / SE Shed Series

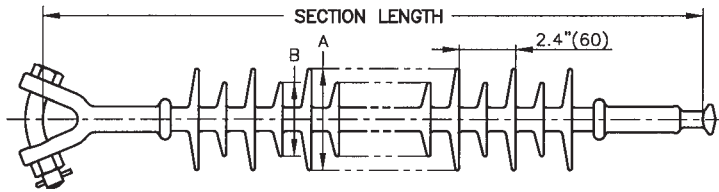


Shed Type	Shed Diameter	
	A	B
"SE" Alternating	ø5.9" (ø151mm)	ø4.8" (ø121mm)

Typical System Voltage (kV)	Catalog No.	No. of Sheds	Section Length			Leakage Distance (inch (mm))	Arcing Distance (inch (mm))	Low Frequency Flashover		Critical Impulse Flashover		Approx. Weight (lbs. (kg))
			YJ (inch (mm))	SJ (inch (mm))	EJ (inch (mm))			Dry kV	Wet kV	Positive kV	Negative kV	
69	251-SE210-YJ	21	36.0 (915)	35.4 (900)	36.4 (925)	108.3 (2750)	28.5 (725)	325	285	480	515	11.9 (5.4)
69	251-SE250-YJ	25	40.7 (1035)	40.2 (1020)	41.1 (1045)	128.8 (3271)	33.3 (845)	370	325	555	590	13.4 (6.1)
69/115	251-SE280-YJ	28	44.3 (1125)	43.7 (1110)	44.7 (1135)	143.6 (3647)	36.4 (925)	395	350	605	640	14.4 (6.6)
69/115	251-SE310-YJ	31	47.8 (1215)	47.2 (1200)	48.2 (1225)	159.5 (4053)	40.4 (1025)	435	385	665	705	15.6 (7.1)
115/138	251-SE350-YJ	35	52.6 (1335)	52.0 (1320)	53.0 (1345)	180.1 (4574)	45.1 (1145)	480	425	740	785	17.1 (7.8)
138	251-SE390-YJ	39	57.3 (1455)	56.7 (1440)	57.7 (1465)	200.6 (5095)	49.8 (1265)	520	465	810	860	18.6 (8.4)
138	251-SE410-YJ	41	59.6 (1515)	59.1 (1500)	60.0 (1525)	210.8 (5355)	52.2 (1325)	545	485	850	900	19.3 (8.8)
138/161	251-SE450-YJ	45	64.4 (1635)	63.8 (1620)	64.8 (1645)	231.3 (5876)	56.9 (1445)	590	525	920	975	20.8 (9.5)
161	251-SE500-YJ	50	70.3 (1785)	69.7 (1770)	70.7 (1795)	256.4 (6513)	62.4 (1585)	640	570	1005	1065	22.6 (10.3)
161	251-SE550-YJ	55	76.2 (1935)	75.6 (1920)	76.8 (1950)	282.6 (7179)	68.7 (1746)	700	625	1105	1165	24.5 (11.1)
161/230	251-SE590-YJ	59	80.9 (2055)	80.3 (2040)	81.5 (2070)	303.1 (7700)	73.5 (1866)	740	665	1180	1245	26.0 (11.8)
230	251-SE640-YJ	64	86.8 (2205)	86.2 (2190)	87.4 (2220)	328.2 (8336)	79.0 (2006)	795	710	1265	1335	27.8 (12.6)
230	251-SE690-YJ	69	92.7 (2355)	92.1 (2340)	93.3 (2370)	354.4 (9002)	85.3 (2166)	850	760	1360	1435	29.7 (13.5)
230/345	251-SE740-YJ	74	98.6 (2505)	98.0 (2490)	99.2 (2520)	379.5 (9639)	90.8 (2306)	905	810	1445	1525	31.5 (14.3)
230/345	251-SE780-YJ	78	103.3 (2625)	102.8 (2610)	103.9 (2640)	400.0 (10160)	95.5 (2426)	945	850	1520	1605	33.0 (15.0)
345	251-SE810-YJ	81	106.9 (2715)	106.3 (2700)	107.5 (2730)	415.9 (10565)	99.5 (2526)	980	880	1580	1665	34.2 (15.5)
345	251-SE860-YJ	86	112.8 (2865)	112.2 (2850)	113.4 (2880)	441.0 (11202)	105.0 (2667)	1020	915	1665	1755	35.9 (16.3)
345	251-SE910-YJ	91	118.7 (3015)	118.3 (3005)	119.3 (3030)	467.2 (11868)	111.3 (2827)	1060	950	1765	1860	37.9 (17.2)
345	251-SE1000-YJ	100	129.3 (3285)	128.9 (3275)	129.9 (3300)	512.8 (13025)	121.5 (3087)	1125	1010	1925	2025	41.1 (18.7)
345/500	251-SE1090-YJ	109	140.0 (3555)	139.6 (3545)	140.6 (3570)	559.5 (14212)	132.6 (3367)	1190	1065	2095	2205	44.5 (20.2)



# Extra Long Leakage -- ANSI 30kip / SE Shed Series

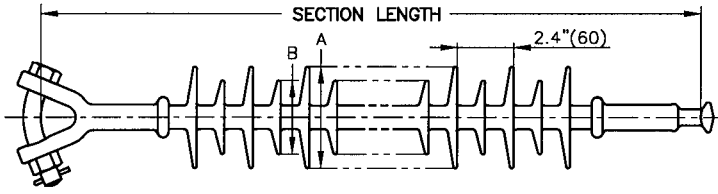


Shed Type	Shed Diameter	
	A	B
"SE" Alternating	ø5.9 (ø151mm)	ø4.8 (ø121mm)

Typical System Voltage (kV)	Catalog No.	No. of Sheds	Section Length			Leakage Distance (inch (mm))	Arcing Distance (inch (mm))	Low Frequency Flashover		Critical Impulse Flashover		Approx. Weight (lbs. (kg))
			YJ (inch (mm))	SJ (inch (mm))	EJ (inch (mm))			Dry kV	Wet kV	Positive kV	Negative kV	
			69	301-SE210-YJ	21			37.8 (960)	36.8 (935)	38.0 (965)	108.3 (2750)	
69	301-SE250-YJ	25	42.5 (1080)	41.5 (1055)	42.7 (1085)	128.8 (3271)	33.3 (845)	370	325	555	590	14.1 (6.4)
69/115	301-SE280-YJ	28	46.1 (1170)	45.1 (1145)	46.3 (1175)	143.6 (3647)	36.4 (925)	395	350	605	640	15.2 (6.9)
69/115	301-SE310-YJ	31	49.6 (1260)	48.6 (1235)	49.8 (1265)	159.5 (4053)	40.4 (1025)	435	385	665	705	16.3 (7.4)
115/138	301-SE350-YJ	35	54.3 (1380)	53.3 (1355)	54.5 (1385)	180.1 (4574)	45.1 (1145)	480	425	740	785	17.9 (8.1)
138	301-SE390-YJ	39	59.1 (1500)	58.1 (1475)	59.3 (1505)	200.6 (5095)	49.8 (1265)	520	465	810	860	19.4 (8.8)
138/161	301-SE450-YJ	45	66.1 (1680)	65.2 (1655)	66.3 (1685)	231.3 (5876)	56.9 (1445)	590	525	920	975	21.6 (9.8)
161	301-SE500-YJ	50	72.0 (1830)	71.1 (1805)	72.2 (1835)	256.4 (6513)	62.4 (1585)	640	570	1005	1065	23.3 (10.6)
161	301-SE550-YJ	55	78.0 (1980)	77.0 (1955)	78.1 (1985)	282.6 (7179)	68.7 (1746)	700	625	1105	1165	25.4 (11.5)
161/230	301-SE590-YJ	59	82.7 (2100)	81.7 (2075)	82.9 (2105)	303.1 (7700)	73.5 (1866)	740	665	1180	1245	26.7 (12.1)
230	301-SE640-YJ	64	88.6 (2250)	87.6 (2225)	88.8 (2255)	328.2 (8336)	79.0 (2006)	795	710	1265	1335	28.4 (12.9)
230	301-SE690-YJ	69	94.5 (2400)	93.5 (2375)	94.7 (2405)	354.4 (9002)	85.3 (2166)	850	760	1360	1435	30.4 (13.8)
230/345	301-SE730-YJ	73	99.2 (2520)	98.2 (2495)	99.4 (2525)	374.9 (9523)	90.0 (2286)	895	800	1435	1515	32.0 (14.5)
345	301-SE810-YJ	81	108.7 (2760)	107.7 (2735)	108.9 (2765)	415.9 (10565)	99.5 (2526)	980	880	1580	1665	34.8 (15.8)
345	301-SE910-YJ	91	120.5 (3060)	119.5 (3035)	120.7 (3065)	467.2 (11868)	111.3 (2827)	1060	950	1765	1860	38.6 (17.5)
345	301-SE1000-YJ	100	131.1 (3330)	130.1 (3305)	131.3 (3335)	512.8 (13025)	121.5 (3087)	1125	1010	1925	2025	41.9 (19.0)
345/500	301-SE1090-YJ	109	141.7 (3600)	140.7 (3575)	141.9 (3605)	559.5 (14212)	132.6 (3367)	1190	1065	2095	2205	45.2 (20.5)
500	301-SE1170-YJ	117	151.2 (3840)	150.2 (3815)	151.4 (3845)	600.6 (15254)	142.0 (3607)	1245	1115	2240	2360	48.3 (21.9)
500	301-SE1310-YJ	131	167.7 (4260)	166.7 (4235)	168.1 (4270)	672.3 (17078)	158.6 (4028)	1335	1195	2495	2630	53.4 (24.2)
500/765	301-SE1410-YJ	141	179.7 (4565)	178.5 (4535)	179.9 (4570)	723.6 (18380)	170.4 (4328)	1395	1250	2680	2820	57.1 (25.9)
765	301-SE1530-YJ	153	193.9 (4925)	192.7 (4895)	194.1 (4930)	785.2 (19943)	184.6 (4689)	1465	1310	2900	3050	61.5 (27.9)



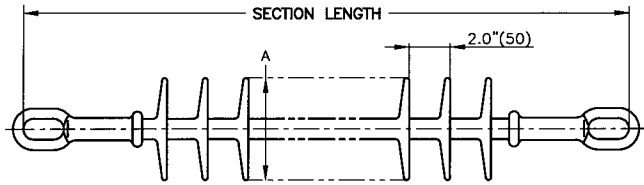
# Extra Long Leakage -- ANSI 50kip / SE Shed Series



Shed Type	Shed Diameter	
	A	B
"SE" Alternating	ø6.3" (ø159mm)	ø5.1" (ø129mm)

Typical System Voltage (kV)	Catalog No.	No. of Sheds	Section Length			Leakage Distance (inch (mm))	Arcing Distance (inch (mm))	Low Frequency Flashover		Critical Impulse Flashover		Approx. Weight (lbs. (kg))
			YK (inch (mm))	SK (inch (mm))	EK (inch (mm))			Dry kV	Wet kV	Positive kV	Negative kV	
69	502-SE210-YK	21	40.0 (1015)	39.6 (1005)	40.2 (1020)	108.3 (2750)	28.5 (725)	325	285	480	515	17.1 (7.8)
69	502-SE250-YK	25	44.7 (1135)	44.3 (1125)	44.9 (1140)	128.8 (3271)	33.3 (845)	370	325	555	590	18.9 (8.6)
69/115	502-SE280-YK	28	48.2 (1225)	47.8 (1215)	48.4 (1230)	143.6 (3647)	36.4 (925)	395	350	605	640	20.2 (9.2)
69/115	502-SE310-YK	31	51.8 (1315)	51.4 (1305)	52.0 (1320)	159.5 (4053)	40.4 (1025)	435	385	665	705	21.6 (9.8)
115/138	502-SE350-YK	35	56.5 (1435)	56.1 (1425)	56.7 (1440)	180.1 (4574)	45.1 (1145)	480	425	740	785	23.5 (10.7)
138	502-SE390-YK	39	61.2 (1555)	60.8 (1545)	61.4 (1560)	200.6 (5095)	49.8 (1265)	520	465	810	860	25.3 (11.5)
138/161	502-SE450-YK	45	68.3 (1735)	67.9 (1725)	68.5 (1740)	231.3 (5876)	56.9 (1445)	590	525	920	975	28.0 (12.7)
161	502-SE500-YK	50	74.2 (1885)	73.8 (1875)	74.4 (1890)	256.4 (6513)	62.4 (1585)	640	570	1005	1065	30.2 (13.7)
161	502-SE550-YK	55	80.1 (2035)	79.7 (2025)	80.5 (2045)	282.6 (7179)	68.7 (1746)	700	625	1105	1165	32.5 (14.8)
161/230	502-SE590-YK	59	84.8 (2155)	84.4 (2145)	85.2 (2165)	303.1 (7700)	73.5 (1866)	740	665	1180	1245	34.3 (15.6)
230	502-SE640-YK	64	90.7 (2305)	90.4 (2295)	91.1 (2315)	328.2 (8336)	79.0 (2006)	795	710	1265	1335	36.5 (16.6)
230	502-SE690-YK	69	96.7 (2455)	96.3 (2445)	97.0 (2465)	354.4 (9002)	85.3 (2166)	850	760	1360	1435	38.9 (17.6)
230/345	502-SE730-YK	73	101.4 (2575)	101.0 (2565)	101.8 (2585)	374.9 (9523)	90.0 (2286)	895	800	1435	1515	40.7 (18.5)
345	502-SE810-SK	81	110.8 (2815)	110.4 (2805)	111.2 (2825)	415.9 (10565)	99.5 (2526)	980	880	1580	1665	44.3 (20.1)
345	502-SE910-YK	91	122.6 (3115)	122.4 (3110)	123.0 (3125)	467.2 (11868)	111.3 (2827)	1060	950	1765	1860	48.8 (22.2)
345	502-SE1000-YK	100	133.3 (3385)	133.1 (3380)	133.7 (3395)	512.8 (13025)	121.5 (3087)	1125	1010	1925	2025	52.8 (24.0)
345/500	502-SE1090-YK	109	143.9 (3655)	143.7 (3650)	144.3 (3665)	559.5 (14212)	132.6 (3367)	1190	1065	2095	2205	57.0 (25.9)
500	502-SE1170-YK	117	153.3 (3895)	153.1 (3890)	153.7 (3905)	600.6 (15254)	142.0 (3607)	1245	1115	2240	2360	60.6 (27.5)
500	502-SE1310-YK	131	169.9 (4315)	169.7 (4310)	170.3 (4325)	672.3 (17078)	158.6 (4028)	1335	1195	2495	2630	67.0 (30.4)
500/765	502-SE1410-YK	141	181.7 (4615)	181.5 (4610)	182.1 (4625)	723.6 (18380)	170.4 (4328)	1395	1250	2680	2820	71.5 (32.5)
765	502-SE1530-YK	153	196.1 (4980)	195.7 (4970)	196.3 (4985)	785.2 (19943)	184.6 (4689)	1465	1310	2900	3050	76.9 (34.9)

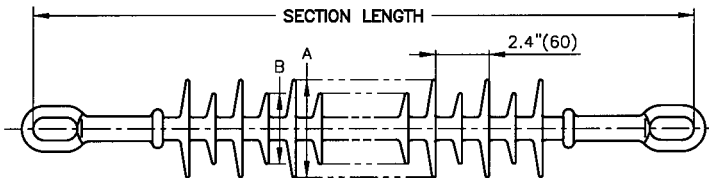
## ANSI 80kip / SN Shed Series -- Standard Leakage



Shed Type	Shed Diameter	
	A	
"SN" Normal	ø5.6" (ø142mm)	

Typical System Voltage (kV)	Catalog No.	No. of Sheds	Section Length <i>inch</i> (mm)	Leakage Distance <i>inch</i> (mm)	Arcing Distance <i>inch</i> (mm)	Low Frequency Flashover		Critical Impulse Flashover		Approx. Weight <i>lbs.</i> (kg)
						Dry kV	Wet kV	Positive kV	Negative kV	
345/500	803-SN660-EE	66	152.0 (3860)	363.8 (9240)	131.8 (3348)	1185	1065	2080	2195	59.1 (26.8)
500	803-SN700-EE	70	159.8 (4060)	385.8 (9800)	139.7 (3548)	1230	1105	2205	2320	61.5 (27.9)
500	803-SN790-EE	79	177.6 (4510)	435.4 (11060)	157.4 (3999)	1330	1190	2480	2610	67.0 (30.4)
500/765	803-SN850-EE	85	189.4 (4810)	468.5 (11900)	169.3 (4299)	1390	1245	2665	2800	70.6 (32.00)
765	803-SN920-EE	92	203.3 (5165)	507.1 (12880)	183.1 (4650)	1455	1305	2875	3025	74.8 (34.0)
765	803-SN980-EE	98	215.2 (5465)	540.2 (13720)	194.9 (4950)	1510	1355	3060	3220	78.4 (35.6)
765	803-SN1030-EE	103	225.0 (5715)	567.7 (14420)	204.7 (5200)	1555	1395	3210	3380	81.4 (37.0)
765	803-SN1100-EE	110	238.8 (6065)	606.3 (15400)	218.5 (5550)	1615	1445	3425	3600	85.6 (38.9)

## ANSI 80kip / SL Shed Series -- Longer Leakage



Shed Type	Shed Diameter	
	A	B
"SL" Alternating	ø5.8" (ø148mm)	ø4.6" (ø118mm)

Typical System Voltage (kV)	Catalog No.	No. of Sheds	Section Length <i>inch</i> (mm)	Leakage Distance <i>inch</i> (mm)	Arcing Distance <i>inch</i> (mm)	Low Frequency Flashover		Critical Impulse Flashover		Approx. Weight <i>lbs.</i> (kg)
						Dry kV	Wet kV	Positive kV	Negative kV	
500	803-SL1170-EE	117	161.0 (4090)	514.2 (13060)	141.4 (3590)	1240	1110	2230	2350	71.8 (32.6)
500	803-SL1310-EE	131	177.6 (4510)	575.6 (14621)	157.9 (4011)	1330	1190	2485	2615	78.1 (35.5)
500/765	803-SL1410-EE	141	189.4 (4810)	619.5 (15736)	169.7 (4311)	1390	1245	2670	2810	82.6 (37.5)
765	803-SL1530-EE	153	203.7 (5175)	672.2 (17074)	183.9 (4672)	1460	1310	2890	3040	88.0 (39.9)
765	803-SL1620-EE	162	214.4 (5445)	711.1 (18063)	194.2 (4933)	1510	1350	3050	3205	91.9 (41.7)
765	803-SL1710-EE	171	225.0 (5715)	751.2 (19081)	205.2 (5212)	1555	1395	3220	3385	96.0 (43.6)
765	803-SL1800-EE	180	235.6 (5985)	790.2 (20070)	215.5 (5473)	1600	1435	3380	3555	100.0 (45.4)



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