



# LOCKE SOLID-CORE STATION POST INSULATORS

**LOCKE**<sup>®</sup>  
INSULATORS

BALTIMORE, MARYLAND

## GUIDE TO SELECTION OF LOCKE SOLID-CORE STATION POST INSULATORS

BIL kV	STANDARD STRENGTH				HIGH STRENGTH				EXTRA HIGH STRENGTH			
	Uniform		Tapered		Uniform		Tapered		Uniform		Tapered	
	Ansi TR. No.	Catalog No. (page)	Ansi TR. No.	Catalog No. (page)	Ansi TR. No.	Catalog No. (page)	Ansi TR. No.	Catalog No. (page)	Ansi TR. No.	Catalog No. (page)	Ansi TR. No.	Catalog No. (page)
95	202	PS00910 (2)	—	—	222	PH00910 (2)	—	—	—	PE00910 (2)	—	—
110	205	PS01110 (2)	—	—	225	PH01110 (2)	—	—	—	PE01110 (2)	—	—
150	208	PS01510 (3)	—	—	227	PH01510 (3)	—	—	—	PE01510 (3)	—	—
200	210	PS02010 (3)	—	—	231	PH02010 (3)	—	—	—	PE02010 (3)	—	—
250	214	PS02510 (4)	—	—	267	PH02510 (4)	—	—	—	PE02510 (4)	—	—
350	216	PS03510 (4)	—	—	278	PH03510 (4)	—	—	—	PE03510 (4)	—	—
550	286	PS05510 (5)	—	—	287	PH05510 (5)	—	—	—	PE05510 (5)	—	—
	—	PS05580 (5)	—	—	—	PH05580 (5)	—	—	—	PE05580 (5)	—	—
650	288	PS06510 (6)	—	—	289	PH06510 (6)	—	—	—	PE06510 (6)	—	—
	—	PS06580 (6)	—	—	—	PH06580 (6)	—	—	—	PE06580 (6)	—	—
750	291	PS07510 (7)	—	—	295	PH07510 (7)	—	—	—	PE07510 (7)	—	—
	—	PS07580 (7)	—	—	—	PH07580 (7)	—	—	—	PE07580 (7)	—	—
900	304	PS090201 (8)	—	—	308	PH090201 (8)	308	PH09020 (8)	—	PE090201 (8)	—	PE09020 (8)
	—	PS090901 (9)	—	—	—	—	—	PH09090 (9)	—	—	—	PH09090 (9)
1050	312	PS105201 (10)	—	—	316	PH105201 (10)	—	PH10520 (10)	362	PE105201 (10)	—	PH10520 (10)
	—	PS105901 (11)	—	—	—	—	—	PH10590 (11)	—	—	—	PH10590 (11)
1300	324	PH130201 (12)	324	PH13020 (12)	—	—	367	PH130202 (12)	368	PE130201 (12)	369	PE13020 (12)
	—	—	—	PH13090 (13)	—	—	—	—	—	—	—	PE13090 (13)
1470	330	PH147201 (14)	—	—	—	—	371	PH147202 (14)	372	PE147201 (14)	373	PE14720 (14)
	—	PH147901 (15)	—	—	—	—	—	—	—	—	—	PE14790 (15)
1550	—	—	—	PX0611 (16)	—	—	379	PE15530 (16)	—	—	—	PX0602 (17)
	—	—	—	—	—	—	—	PE15590 (18)	—	—	—	—
1800	—	—	391	PE18030 (16)	—	—	—	PX0590 (17)	—	—	—	PX0603 (17)
	—	—	—	PE18090 (18)	—	—	—	—	—	—	—	—
2050	—	—	—	PE20530 (16)	—	—	—	PX0608 (17)	—	—	—	—
	—	—	—	PE20590 (18)	—	—	—	—	—	—	—	—

# LOCKE SOLID-CORE STATION POST INSULATORS

## DISTINGUISHING FEATURES OF LOCKE SOLID-CORE POST INSULATORS:

All Locke Solid-Core post insulators are made with our high-strength, alumina body. This means that we can provide the same mechanical strength with a slimmer, lighter insulator that has less surface area to collect airborne contaminants and less obtrusive to the eye. Locke's high-strength, alumina porcelain is less prone to sub-critical crack growth than our competitor's flint body porcelain.

Locke's design philosophy is that the requirements imposed by national standards are a minimum. We design our insulators to a two sigma level for mechanical strength, i.e. average failing loads must be at least two standard deviations above their mechanical rating. We also strive to provide insulators that are within a dimensional tolerance of no more than half that prescribed by ANSI C29.9-1983.

The "solid-core" structure of our porcelain means that our insulators are puncture proof by virtue of the internal dielectric path being almost the length of the external dielectric path through air. Only external flashover can occur from all conditions of electrical stress.

Quality control is exercised throughout the manufacturing process. Each and every insulator is subjected to bending stresses equivalent to 50% of the cantilever rating of the insulator, except for a few very high strength insulators where the capability of the machine is exceeded, then the ANSI requirement of 40% is adhered to.

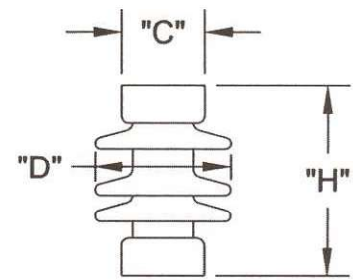
Unlike other manufacturers who use short, squat sections to produce tall insulators, Locke's slim, long-section EHV posts do not require the use of rain shields to meet the wet flashover requirements of the standards.

Locke assembles cap and flange hardware to our porcelain using a mortar mix of Portland cement and pure silica sand that provides excellent strength and durability. Locke's close quality control of our cement has given us the distinction of being one of the few insulators suppliers qualified by a large Canadian power company who feel that the freeze-thaw cycle in their service area has deteriorating effects on an insulator's long-term mechanical strength.

Locke offers a full range of station post insulators from 95 kV BIL all the way to 2050 kV BIL in a variety of strength ratings. Requirements for special features or designs are always thoughtfully considered. Ask your local sales agent or contact the factory for quotations on insulators not listed in this catalog.

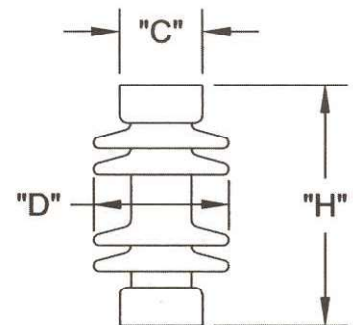
## CHARACTERISTICS

Basic Impulse Insulation Level (kV)		95		
Catalog number		PS00910	PH00910	PE00910
Technical Reference number		202	222	---
Leakage distance (in.)		10 1/2	10 1/2	10 1/2
Cantilever Strength (lb.)		2,000	4,000	8,000
Tensile Strength (lb.)		7,000	15,000	28,000
Torsional Strength (in-lb.)		6,000	12,000	40,000
Compression Strength (lb.)		10,000	20,000	40,000
Critical Impulse Flashover Voltage, Positive (kV)		105	105	105
Withstand Voltage	Low Frequency, Wet (kV)	30	30	30
	Impulse (kV)	95	95	95
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	5	5	5
	Maximum RIV at 1,000kHz ( $\mu$ V)	50	50	50
Height (in.) - "H"		7 1/2	10	10
Shed diameter (in.) - "D"		6 1/2	5 15/16	7 1/4
Number of sheds		3	3	3
Bolt circle diameter (in.)		3	5	5
(4) Tapped holes, size (in.)		1/2-13	5/8-11	5/8-11
Cap diameter (in.) - "C"		4 1/4	6 1/4	6 1/4
Net Weight (lb.)		15	22	33



## CHARACTERISTICS

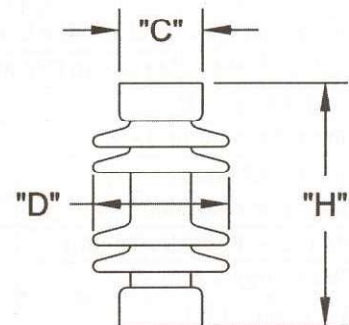
Basic Impulse Insulation Level (kV)		110		
Catalog number		PS01110	PH01110	PE01110
Technical Reference number		205	225	---
Leakage distance (in.)		15 1/2	15 1/2	15 1/2
Cantilever Strength (lb.)		2,000	4,000	8,000
Tensile Strength (lb.)		8,500	20,000	28,000
Torsional Strength (in-lb.)		7,000	14,000	40,000
Compression Strength (lb.)		10,000	20,000	40,000
Critical Impulse Flashover Voltage, Positive (kV)		125	125	125
Withstand Voltage	Low Frequency, Wet (kV)	45	45	45
	Impulse (kV)	110	110	110
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	10	10	10
	Maximum RIV at 1,000kHz ( $\mu$ V)	50	50	50
Height (in.) - "H"		10	12	12
Shed diameter (in.) - "D"		6 1/2	6 1/2	7 11/16
Number of sheds		4	4	4
Bolt circle diameter (in.)		3	5	5
(4) Tapped holes, size (in.)		1/2-13	5/8-11	5/8-11
Cap diameter (in.) - "C"		4 1/4	6 1/4	6 1/4
Net Weight (lb.)		21	28	40



Notes: 1. These units are not furnished with mounting bolts. State size at time of inquiry if mounting bolts are required.  
 2. Light gray, chocolate brown or semiconducting glaze is available.

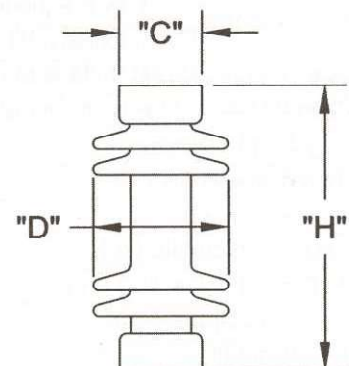
## CHARACTERISTICS

Basic Impulse Insulation Level (kV)		150		
Catalog number		PS01510	PH01510	PE01510
Technical Reference number		208	227	—
Leakage distance (in.)		24	24	24
Cantilever Strength (lb.)		2,000	4,000	8,000
Tensile Strength (lb.)		10,000	20,000	28,000
Torsional Strength (in-lb.)		8,000	16,000	40,000
Compression Strength (lb.)		10,000	20,000	40,000
Critical Impulse Flashover Voltage, Positive (kV)		170	170	170
Withstand Voltage	Low Frequency, Wet (kV)	60	60	60
	Impulse (kV)	150	150	150
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	15	15	15
	Maximum RIV at 1,000kHz ( $\mu$ V)	100	100	100
Height (in.) - "H"		14	15	15
Shed diameter (in.) - "D"		6 1/2	6 11/16	8 11/16
Number of sheds		6	7	5
Bolt circle diameter (in.)		3	5	5
(4) Tapped holes, size (in.)		1/2-13	5/8-11	5/8-11
Cap diameter (in.) - "C"		4 1/4	6 1/4	6 1/4
Net Weight (lb.)		23	38	54



## CHARACTERISTICS

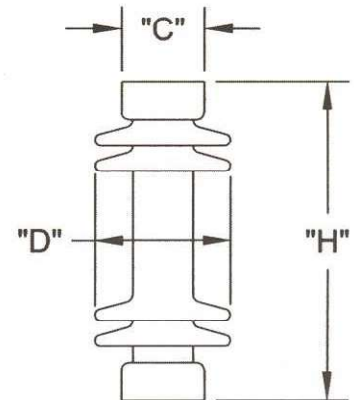
Basic Impulse Insulation Level (kV)		200		
Catalog number		PS02010	PH02010	PE02010
Technical Reference number		210	231	—
Leakage distance (in.)		37	37	37
Cantilever Strength (lb.)		2,000	4,000	8,000
Tensile Strength (lb.)		12,000	25,000	28,000
Torsional Strength (in-lb.)		10,000	20,000	40,000
Compression Strength (lb.)		15,000	30,000	60,000
Critical Impulse Flashover Voltage, Positive (kV)		225	225	225
Withstand Voltage	Low Frequency, Wet (kV)	80	80	80
	Impulse (kV)	200	200	200
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	22	22	22
	Maximum RIV at 1,000kHz ( $\mu$ V)	100	100	100
Height (in.) - "H"		18	20	20
Shed diameter (in.) - "D"		6 7/16	8 1/16	8 7/8
Number of sheds		9	8	8
Bolt circle diameter (in.)		3	5	5
(4) Tapped holes, size (in.)		1/2-13	5/8-11	5/8-11
Cap diameter (in.) - "C"		4 1/4	6 1/4	6 1/4
Net Weight (lb.)		32	59	78



- Notes: 1. These units are not furnished with mounting bolts. State size at time of inquiry if mounting bolts are required.  
 2. Light gray, chocolate brown or semiconducting glaze is available.

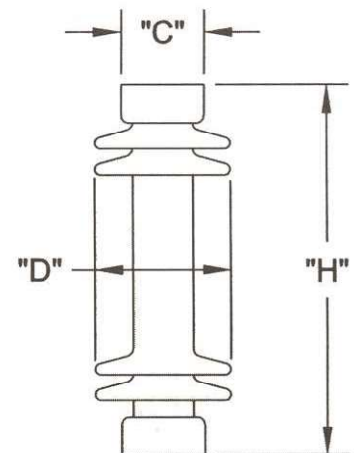
## CHARACTERISTICS

Basic Impulse Insulation Level (kV)		250		
Catalog number		PS02510	PH02510	PE02510
Technical Reference number		214	267	---
Leakage distance (in.)		43	43	43
Cantilever Strength (lb.)		2,000	4,000	7,000
Tensile Strength (lb.)		14,000	25,000	28,000
Torsional Strength (in-lb.)		12,000	20,000	40,000
Compression Strength (lb.)		15,000	60,000	60,000
Critical Impulse Flashover Voltage, Positive (kV)		280	280	280
Withstand Voltage	Low Frequency, Wet (kV)	100	100	100
	Impulse (kV)	250	250	250
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	30	30	30
	Maximum RIV at 1,000kHz ( $\mu$ V)	200	200	200
Height (in.) - "H"		22	24	24
Shed diameter (in.) - "D"		6 5/16	7 1/4	8 7/8
Number of sheds		12	11	9
Bolt circle diameter (in.)		3	5	5
(4) Tapped holes, size (in.)		1/2-13	5/8-11	5/8-11
Cap diameter (in.) - "C"		4 1/4	6 1/4	6 1/4
Net Weight (lb.)		41	72	87



## CHARACTERISTICS

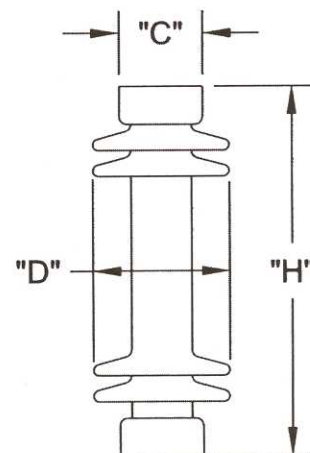
Basic Impulse Insulation Level (kV)		350		
Catalog number		PS03510	PH03510	PE03510
Technical Reference number		216	278	---
Leakage distance (in.)		72	72	72
Cantilever Strength (lb.)		1,500	3,000	5,000
Tensile Strength (lb.)		16,000	25,000	28,000
Torsional Strength (in-lb.)		15,000	40,000	40,000
Compression Strength (lb.)		25,000	60,000	60,000
Critical Impulse Flashover Voltage, Positive (kV)		390	390	390
Withstand Voltage	Low Frequency, Wet (kV)	145	145	145
	Impulse (kV)	350	350	350
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	44	44	44
	Maximum RIV at 1,000kHz ( $\mu$ V)	200	200	200
Height (in.) - "H"		30	30	32
Shed diameter (in.) - "D"		7 11/16	8 1/16	8 7/8
Number of sheds		16	16	16
Bolt circle diameter (in.)		3	5	5
(4) Tapped holes, size (in.)		1/2-13	5/8-11	5/8-11
Cap diameter (in.) - "C"		4 1/4	6 1/4	6 1/4
Net Weight (lb.)		74	93	120



Notes: 1. These units are not furnished with mounting bolts. State size at time of inquiry if mounting bolts are required.  
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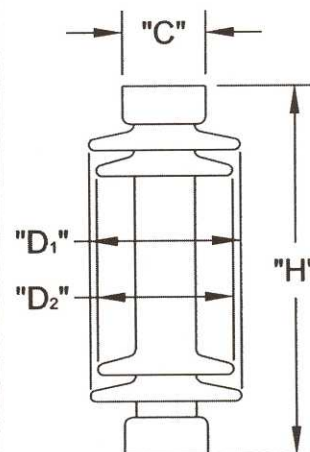
## STANDARDS INSULATORS

Catalog number	PS05510	PH05510	PE05510
Technical Reference number	286	287	---
Leakage distance (in.)	99	99	95
Cantilever Strength (lb.)	1,700	2,600	5,000
Tensile Strength (lb.)	20,000	25,000	40,000
Torsional Strength (in-lb.)	40,000	90,000	120,000
Compression Strength (lb.)	60,000	75,000	120,000
Critical Impulse Flashover Voltage, Positive (kV)	610	610	610
Withstand Voltage	Low Frequency, Wet (kV)	230	230
	Impulse (kV)	550	550
Radio-Influence	Test Voltage to Ground (kV)		73
Voltage Data	Maximum RIV at 1,000kHz ( $\mu V$ )		200
			200
Height (in.) - "H"	45	45	45
Shed diameter (in.) - "D"	8 1/16	8 7/8	9 5/8
Number of sheds	19	19	18
Bolt circle diameter (in.)	5	5	7
(4) Tapped holes, size (in.)	5/8-11	5/8-11	3/4-10
Cap diameter (in.) - "C"	6 1/4	6 1/4	8 1/2
Net Weight (lb.)	127	165	196



## HLD INSULATORS

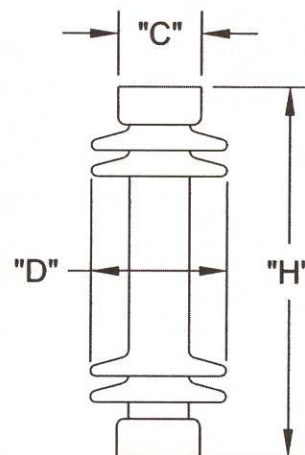
Catalog number	PS05580	PH05580	PE05580
Leakage distance (in.)	125	125	120
Cantilever Strength (lb.)	1,700	2,600	5,000
Tensile Strength (lb.)	20,000	25,000	40,000
Torsional Strength (in-lb.)	40,000	90,000	120,000
Compression Strength (lb.)	60,000	90,000	120,000
Critical Impulse Flashover Voltage, Positive (kV)	610	610	610
Withstand Voltage	Low Frequency, Wet (kV)	230	230
	Impulse (kV)	550	550
Radio-Influence	Test Voltage to Ground (kV)		73
Voltage Data	Maximum RIV at 1,000kHz ( $\mu V$ )		200
			200
Height (in.) - "H"	45	45	45
Major Shed diameter (in.) - "D <sub>1</sub> "	9 1/4	10	10 13/16
Minor Shed diameter (in.) - "D <sub>2</sub> "	7 11/16	8 7/16	9 1/4
Number of sheds	25	25	24
Bolt circle diameter (in.)	5	5	7
(4) Tapped holes, size (in.)	5/8-11	5/8-11	3/4-10
Cap diameter (in.) - "C"	6 1/4	6 1/4	8 1/2
Net Weight (lb.)	150	182	218



Notes: 1. These units are not furnished with mounting bolts. State size at time of inquiry if mounting bolts are required.  
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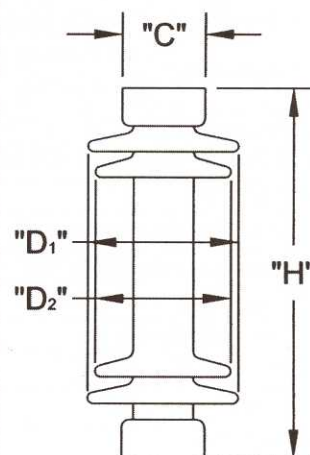
## STANDARD INSULATORS

Catalog number	PS06510	PH06510	PE06510
Technical Reference number	288	289	---
Leakage distance (in.)	116	116	116
Cantilever Strength (lb.)	1,450	2,200	4,100
Tensile Strength (lb.)	20,000	25,000	40,000
Torsional Strength (in-lb.)	60,000	90,000	120,000
Compression Strength (lb.)	60,000	75,000	120,000
Critical Impulse Flashover Voltage, Positive (kV)	710	710	710
Withstand Voltage	Low Frequency, Wet (kV)	275	275
	Impulse (kV)	650	650
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	88	88
	Maximum RIV at 1,000kHz ( $\mu$ V)	200	200
Height (in.) - "H"	54	54	54
Shed diameter (in.) - "D"	8 11/16	8 7/8	9 5/8
Number of sheds	22	22	22
Bolt circle diameter (in.)	5	5	7
(4) Tapped holes, size (in.)	5/8-11	5/8-11	3/4-10
Cap diameter (in.) - "C"	6 1/4	6 1/4	8 1/2
Net Weight (lb.)	141	186	238



## HLD INSULATORS

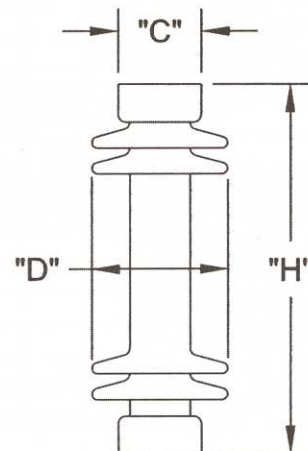
Catalog number	PS06580	PH06580	PE06580
Leakage distance (in.)	155	155	150
Cantilever Strength (lb.)	1,450	2,200	4,100
Tensile Strength (lb.)	20,000	25,000	40,000
Torsional Strength (in-lb.)	60,000	90,000	120,000
Compression Strength (lb.)	60,000	90,000	120,000
Critical Impulse Flashover Voltage, Positive (kV)	710	710	710
Withstand Voltage	Low Frequency, Wet (kV)	275	275
	Impulse (kV)	650	650
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	88	88
	Maximum RIV at 1,000kHz ( $\mu$ V)	200	200
Height (in.) - "H"	54	54	54
Major Shed diameter (in.) - "D <sub>1</sub> "	9 1/4	10	10 13/16
Minor Shed diameter (in.) - "D <sub>2</sub> "	7 11/16	8 7/16	9 1/4
Number of sheds	31	31	30
Bolt circle diameter (in.)	5	5	7
(4) Tapped holes, size (in.)	5/8-11	5/8-11	3/4-10
Cap diameter (in.) - "C"	6 1/4	6 1/4	8 1/2
Net Weight (lb.)	167	210	267



Notes: 1. These units are not furnished with mounting bolts. State size at time of inquiry if mounting bolts are required.  
 2. Light gray, chocolate brown or semiconducting glaze is available.

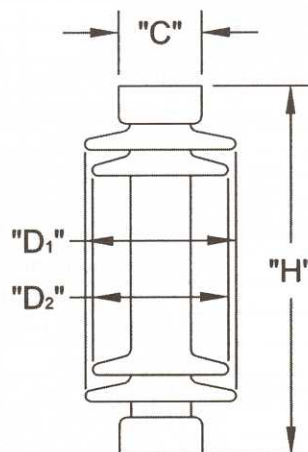
### STANDARDS INSULATORS

Catalog number	PS07510	PH07510	PE07510
Technical Reference number	291	295	---
Leakage distance (in.)	132	132	132
Cantilever Strength (lb.)	1,200	1,850	3,500
Tensile Strength (lb.)	20,000	25,000	40,000
Torsional Strength (in-lb.)	60,000	90,000	120,000
Compression Strength (lb.)	60,000	75,000	120,000
Critical Impulse Flashover Voltage, Positive (kV)	810	810	810
Withstand Voltage	Low Frequency, Wet (kV)	315	315
	Impulse (kV)	750	750
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	103	103
	Maximum RIV at 1,000kHz ( $\mu$ V)	500	500
Height (in.) - "H"	62	62	62
Shed diameter (in.) - "D"	8 11/16	8 7/8	9 5/8
Number of sheds	26	26	26
Bolt circle diameter (in.)	5	5	7
(4) Tapped holes, size (in.)	5/8-11	5/8-11	3/4-10
Cap diameter (in.) - "C"	6 1/4	6 1/4	8 1/2
Net Weight (lb.)	162	217	270



### HLD INSULATORS

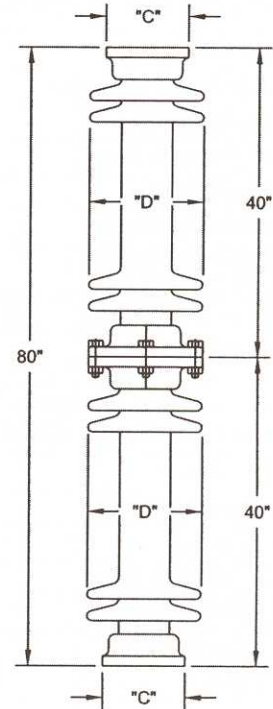
Catalog number	PS07580	PH07580	PE07580
Leakage distance (in.)	180	180	180
Cantilever Strength (lb.)	1,200	1,850	3,500
Tensile Strength (lb.)	20,000	25,000	40,000
Torsional Strength (in-lb.)	60,000	90,000	120,000
Compression Strength (lb.)	60,000	90,000	120,000
Critical Impulse Flashover Voltage, Positive (kV)	810	810	810
Withstand Voltage	Low Frequency, Wet (kV)	315	315
	Impulse (kV)	750	750
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	103	103
	Maximum RIV at 1,000kHz ( $\mu$ V)	500	500
Height (in.) - "H"	62	62	62
Major Shed diameter (in.) - "D <sub>1</sub> "	9 1/4	10	10 13/16
Minor Shed diameter (in.) - "D <sub>2</sub> "	7 11/16	8 7/16	9 1/4
Number of sheds	36	36	36
Bolt circle diameter (in.)	5	5	7
(4) Tapped holes, size (in.)	5/8-11	5/8-11	3/4-10
Cap diameter (in.) - "C"	6 1/4	6 1/4	8 1/2
Net Weight (lb.)	190	240	305



Notes: 1. These units are not furnished with mounting bolts. State size at time of inquiry if mounting bolts are required.  
 2. Light gray, chocolate brown or semiconducting glaze is available.

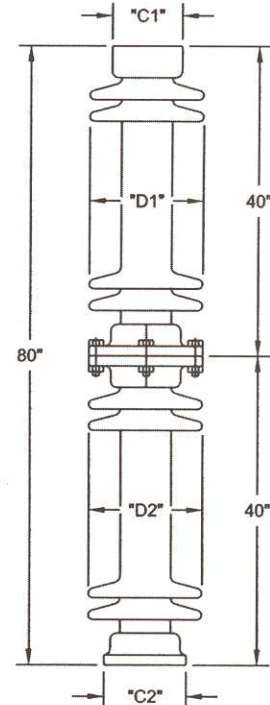
## UNIFORM STACKS

Catalog number	PS090201	PH090201	PE090201
Components	PS0902Y PS0902X	PH0902Y PH0902X	PE0902Y PE0902X
Technical reference number	304	308	—
Leakage distance (in.)	165	165	165
Cantilever Strength (lb.)	950	1,450	2,750
Tensile Strength (lb.)	20,000	25,000	40,000
Torsional Strength (in-lb.)	60,000	90,000	120,000
Compression Strength (lb.)	60,000	90,000	120,000
Critical Impulse Flashover Voltage, Positive (kV)	1,010	1,010	1,010
Withstand Voltage	Low Frequency, Wet (kV)	385	385
	Impulse (kV)	900	900
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	146	146
	Maximum RIV at 1,000kHz ( $\mu$ V)	500	500
Shed diameter (in.) - "D"	8 1/16	8 7/8	9 5/8
(4) Tapped holes, size (in.)	5/8-11	5/8-11	3/4-11
Bolt circle diameter (in.)	5	5	7
Cap diameter (in.) - "C"	6 1/4	6 1/4	8 1/2
Number of sheds each section	16	16	16
Net Weight (lb.)	234	302	390



## TAPERED STACKS

Catalog number	PH09020	PE09020
Components	PH0902J PH0902X	PE0902J PE0902X
Technical reference number	308	—
Leakage distance (in.)	165	165
Cantilever Strength (lb.)	1,450	2,750
Tensile Strength (lb.)	25,000	25,000
Torsional Strength (in-lb.)	90,000	90,000
Compression Strength (lb.)	75,000	90,000
Critical Impulse Flashover Voltage, Positive (kV)	1,010	1,010
Withstand Voltage	Low Frequency, Wet (kV)	385
	Impulse (kV)	900
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	146
	Maximum RIV at 1,000kHz ( $\mu$ V)	500
Top section: Shed diameter (in.) - "D1"	8 1/16	8 7/8
(4) Tapped holes, size (in.)	5/8-11	5/8-11
Bolt circle diameter (in.)	5	5
Cap diameter (in.) - "C1"	6 1/4	6 1/4
Number of sheds	16	16
Base section: Shed diameter (in.) - "D2"	8 7/8	9 5/8
(4) Tapped holes, size (in.)	5/8-11	3/4-10
Bolt circle diameter (in.)	5	7
Cap diameter (in.) - "C2"	6 1/4	8 1/2
Number of sheds	16	16
Net Weight (lb.)	268	346

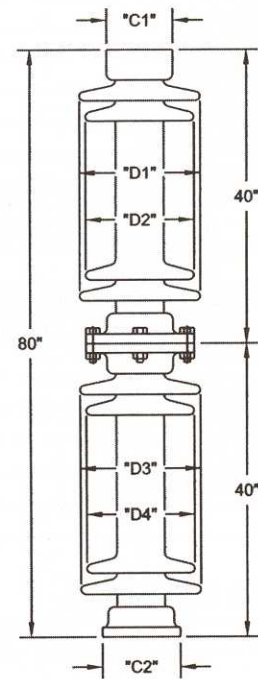


Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, and are not furnished with end mounting fasteners. State size at time of inquiry if mounting bolts are required.

2. Light gray, chocolate brown or semiconducting glaze is available.

## HLD STACKS

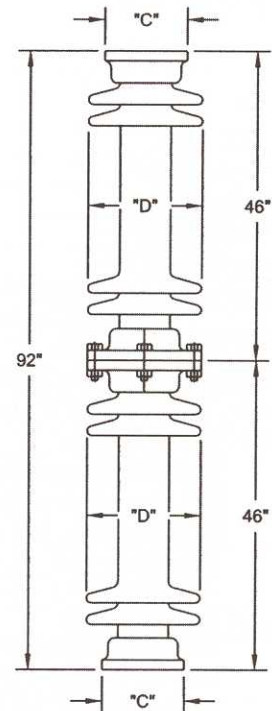
Catalog number	PS090901	PH09090	PE09090
Components	PS0909Y1 PS0909X1	PH0909J0 PH0909X0	PE0909J0 PE0909X0
Leakage distance (in.)	220	220	220
Cantilever Strength (lb.)	950	1,450	2,750
Tensile Strength (lb.)	20,000	25,000	25,000
Torsional Strength (in-lb.)	60,000	90,000	90,000
Compression Strength (lb.)	60,000	90,000	90,000
Critical Impulse Flashover Voltage, Positive (kV)	1,010	1,010	1,010
Withstand Voltage	Low Frequency, Wet (kV)	385	385
	Impulse (kV)	900	900
Radio-Influence	Test Voltage to Ground (kV)	146	146
Voltage Data	Maximum RIV at 1,000kHz ( $\mu$ V)	500	500
Top section: Number of sheds	22	22	22
Major Shed diameter (in.) - "D1"	9 1/4	9 1/4	10
Minor Shed diameter (in.) - "D2"	7 11/16	7 11/16	8 7/16
(4) Tapped holes, size (in.)	5/8-11	5/8-11	5/8-11
Bolt circle diameter (in.)	5	5	5
Cap diameter (in.) - "C1"	6 1/4	6 1/4	6 1/4
Base section: Number of sheds	22	22	22
Major Shed diameter (in.) - "D3"	9 1/4	10	10 13/16
Minor Shed diameter (in.) - "D4"	7 11/16	8 7/16	9 1/4
(4) Tapped holes, size (in.)	5/8-11	5/8-11	3/4-10
Bolt circle diameter (in.)	5	5	7
Cap diameter (in.) - "C2"	6 1/4	6 1/4	8 1/2
Net Weight (lb.)	260	290	405



- Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, and are not furnished with end mounting fasteners. State size at time of inquiry if mounting bolts are required.  
 2. Light gray, chocolate brown or semiconducting glaze is available.

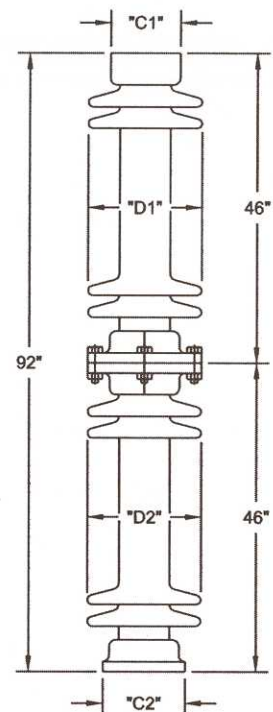
## UNIFORM STACKS

Catalog number	PS105201	PH105201	PE105201
Components	PS1052Y PS1052X	PH1052Y PH1052X	PE1052Y PE1052X
Technical reference number	312	316	362
Leakage distance (in.)	198	198	198
Cantilever Strength (lb.)	800	1,250	2,300
Tensile Strength (lb.)	20,000	25,000	40,000
Torsional Strength (in-lb.)	60,000	90,000	120,000
Compression Strength (lb.)	40,000	75,000	100,000
Critical Impulse Flashover Voltage, Positive (kV)	1,210	1,210	1,210
Withstand Voltage	Low Frequency, Wet (kV)	455	455
	Impulse (kV)	1,050	1,050
Radio-Influence	Test Voltage to Ground (kV)	146	146
Voltage Data	Maximum RIV at 1,000kHz ( $\mu V$ )	500	500
Shed diameter (in.) - "D"	8 1/16	8 7/8	9 5/8
(4) Tapped holes, size (in.)	5/8-11	5/8-11	3/4-11
Bolt circle diameter (in.)	5	5	7
Cap diameter (in.) - "C"	6 1/4	6 1/4	8 1/2
Number of sheds each section	19	19	19
Net Weight (lb.)	261	336	420



## TAPERED STACKS

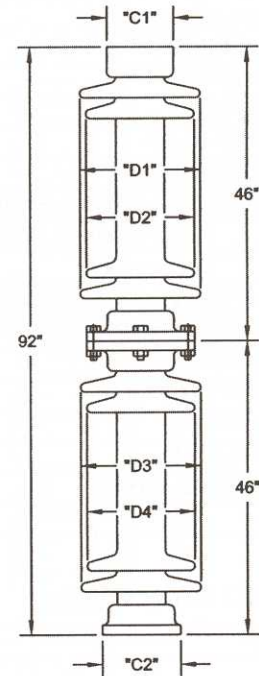
Catalog number	PH10520	PE10520
Components	PH1052J PH1052X	PE1052J PE1052X
Technical reference number	316	—
Leakage distance (in.)	198	198
Cantilever Strength (lb.)	1,250	2,300
Tensile Strength (lb.)	25,000	25,000
Torsional Strength (in-lb.)	90,000	90,000
Compression Strength (lb.)	75,000	90,000
Critical Impulse Flashover Voltage, Positive (kV)	1,210	1,210
Withstand Voltage	Low Frequency, Wet (kV)	455
	Impulse (kV)	1,050
Radio-Influence	Test Voltage to Ground (kV)	146
Voltage Data	Maximum RIV at 1,000kHz ( $\mu V$ )	500
Top section:	Shed diameter (in.) - "D1"	8 1/16
	(4) Tapped holes, size (in.)	5/8-11
	Bolt circle diameter (in.)	5
	Cap diameter (in.) - "C1"	6 1/4
	Number of sheds	19
Base section:	Shed diameter (in.) - "D2"	8 7/8
	(4) Tapped holes, size (in.)	5/8-11
	Bolt circle diameter (in.)	5
	Cap diameter (in.) - "C2"	8 1/2
	Number of sheds	19
Net Weight (lb.)	290	378



Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, and are not furnished with end mounting fasteners. State size at time of inquiry if mounting bolts are required.  
2. Light gray, chocolate brown or semiconducting glaze is available.

## HLD STACKS

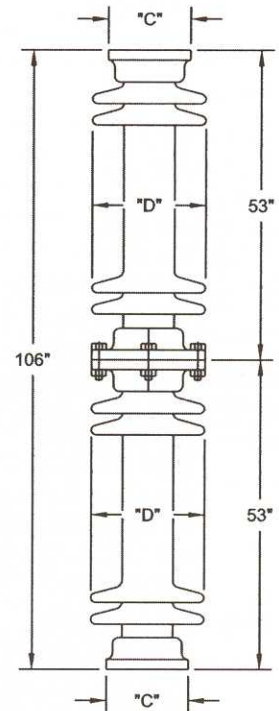
Catalog number	PS105901	PH10590	PE10590
Components	PS1059Y1 PS1059X1	PH1059J0 PH1059X0	PE1059J0 PE1059X0
Leakage distance (in.)	260	260	260
Cantilever Strength (lb.)	800	1,250	2,300
Tensile Strength (lb.)	20,000	25,000	25,000
Torsional Strength (in-lb.)	60,000	90,000	90,000
Compression Strength (lb.)	60,000	90,000	90,000
Critical Impulse Flashover Voltage, Positive (kV)	1,210	1,210	1,210
Withstand Voltage	Low Frequency, Wet (kV)	455	455
	Impulse (kV)	1050	1050
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	146	146
	Maximum RIV at 1,000kHz ( $\mu$ V)	500	500
Top section: Number of sheds	26	26	26
Major Shed diameter (in.) - "D1"	9 1/4	9 1/4	10
Minor Shed diameter (in.) - "D2"	7 11/16	7 11/16	8 7/16
(4) Tapped holes, size (in.)	5/8-11	5/8-11	5/8-11
Bolt circle diameter (in.)	5	5	5
Cap diameter (in.) - "C1"	6 1/4	6 1/4	6 1/4
Base section: Number of sheds	26	26	26
Major Shed diameter (in.) - "D3"	9 1/4	10	10 13/16
Minor Shed diameter (in.) - "D4"	7 11/16	8 7/16	9 1/4
(4) Tapped holes, size (in.)	5/8-11	5/8-11	3/4-10
Bolt circle diameter (in.)	5	5	7
Cap diameter (in.) - "C2"	6 1/4	6 1/4	8 1/2
Net Weight (lb.)	298	336	420



- Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, and are not furnished with end mounting fasteners. State size at time of inquiry if mounting bolts are required.  
 2. Light gray, chocolate brown or semiconducting glaze is available.

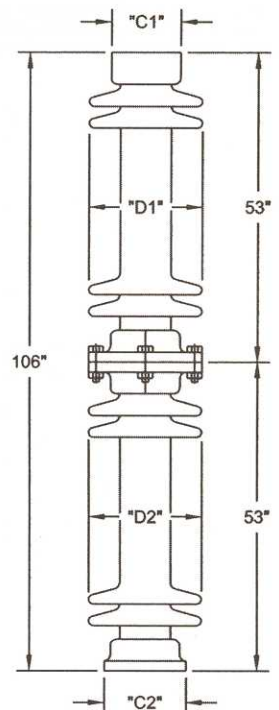
## UNIFORM STACKS

Catalog number	PH130201	PE130201	
Components	PH1302Y PH1302X	PE1302Y PE1302X	
Technical reference number	324	368	
Leakage distance (in.)	231	231	
Cantilever Strength (lb.)	1,000	2,050	
Tensile Strength (lb.)	25,000	40,000	
Torsional Strength (in-lb.)	90,000	120,000	
Compression Strength (lb.)	75,000	120,000	
Critical Impulse Flashover Voltage, Positive (kV)	1,410	1,410	
Withstand Voltage	Low Frequency, Wet (kV)	525	525
	Impulse (kV)	1300	1300
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	220	220
	Maximum RIV at 1,000kHz ( $\mu V$ )	1,000	1,000
Shed diameter (in.) - "D"	8 7/8	9 5/8	
(4) Tapped holes, size (in.)	5/8-11	3/4-11	
Bolt circle diameter (in.)	5	7	
Cap diameter (in.) - "C"	6 1/4	8 1/2	
Number of sheds each section	22	22	
Net Weight (lb.)	382	498	



## TAPERED STACKS

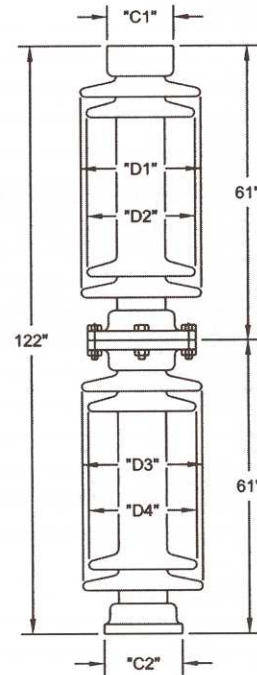
Catalog number	PH13020	PH130202	PE13020	
Components	PH1302J PH1302X	PH1302K PE1302X	PE1302J PE1302X	
Technical reference number	324	367	369	
Leakage distance (in.)	231	231	231	
Cantilever Strength (lb.)	1,000	1,450	2,050	
Tensile Strength (lb.)	25,000	20,000	25,000	
Torsional Strength (in-lb.)	90,000	40,000	90,000	
Compression Strength (lb.)	75,000	60,000	90,000	
Critical Impulse Flashover Voltage, Positive (kV)	1,410	1,410	1,410	
Withstand Voltage	Low Frequency, Wet (kV)	525	525	525
	Impulse (kV)	1300	1300	1300
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	220	220	220
	Maximum RIV at 1,000kHz ( $\mu V$ )	1,000	1,000	1,000
Top section:	Shed diameter (in.) - "D1"	8 1/16	8 1/16	8 7/8
	(4) Tapped holes, size (in.)	5/8-11	5/8-11	5/8-11
	Bolt circle diameter (in.)	5	5	5
	Cap diameter (in.) - "C1"	6 1/4	6 1/4	6 1/4
Base section:	Shed diameter (in.) - "D2"	8 7/8	9 5/8	9 5/8
	(4) Tapped holes, size (in.)	5/8-11	3/4-10	3/4-10
	Bolt circle diameter (in.)	5	7	7
	Cap diameter (in.) - "C2"	6 1/4	8 1/2	8 1/2
Number of sheds	22	22	22	
Net Weight (lb.)	326	396	441	



Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, and are not furnished with end mounting fasteners. State size at time of inquiry if mounting bolts are required.  
2. Light gray, chocolate brown or semiconducting glaze is available.

## HLD STACKS

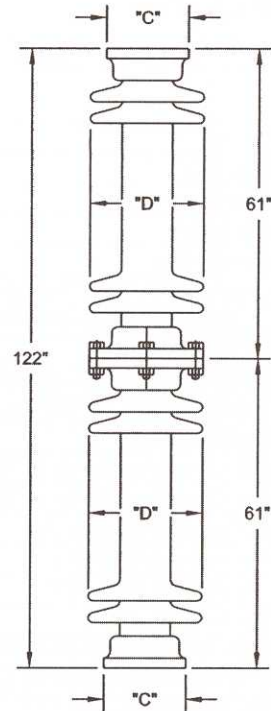
Catalog number	PH13090	PE13090
Components	PH1309J0 PH1309X0	PE1309J0 PE1309X0
Leakage distance (in.)	310	304
Cantilever Strength (lb.)	1,000	2,050
Tensile Strength (lb.)	25,000	25,000
Torsional Strength (in-lb.)	90,000	90,000
Compression Strength (lb.)	75,000	90,000
Critical Impulse Flashover Voltage, Positive (kV)	1,410	1,410
Withstand Voltage	Low Frequency, Wet (kV)	525
	Impulse (kV)	1,300
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	220
	Maximum RIV at 1,000kHz ( $\mu V$ )	1,000
Top section: Number of sheds	31	31
Major Shed diameter (in.) - "D1"	9 1/4	10
Minor Shed diameter (in.) - "D2"	7 11/16	8 7/16
(4) Tapped holes, size (in.)	5/8-11	5/8-11
Bolt circle diameter (in.)	5	5
Cap diameter (in.) - "C1"	6 1/4	6 1/4
Base section: Number of sheds	31	31
Major Shed diameter (in.) - "D3"	10	10 13/16
Minor Shed diameter (in.) - "D4"	7 11/16	9 1/4
(4) Tapped holes, size (in.)	5/8-11	3/4-10
Bolt circle diameter (in.)	5	7
Cap diameter (in.) - "C2"	6 1/4	8 1/2
Net Weight (lb.)	385	485



- Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, and are not furnished with end mounting fasteners. State size at time of inquiry if mounting bolts are required.  
 2. Light gray, chocolate brown or semiconducting glaze is available.

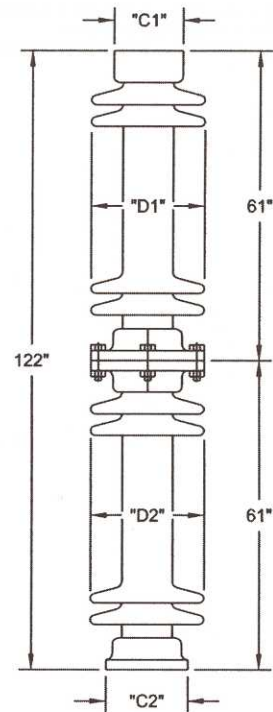
## UNIFORM STACKS

Catalog number	PH147201	PE147201
Components	PH1472Y PH1472X	PE1472Y PE1472X
Technical reference number	330	372
Leakage distance (in.)	264	264
Cantilever Strength (lb.)	900	1,750
Tensile Strength (lb.)	25,000	40,000
Torsional Strength (in-lb.)	90,000	120,000
Compression Strength (lb.)	75,000	100,000
Critical Impulse Flashover Voltage, Positive (kV)	1,610	1,610
Withstand Voltage	Low Frequency, Wet (kV)	590
	Impulse (kV)	1,470
Radio-Influence	Test Voltage to Ground (kV)	
Voltage Data	Maximum RIV at 1,000kHz ( $\mu V$ )	
	220	220
Shed diameter (in.) - "D"	8 7/8	9 5/8
(4) Tapped holes, size (in.)	5/8-11	3/4-11
Bolt circle diameter (in.)	5	7
Cap diameter (in.) - "C"	6 1/4	8 1/2
Number of sheds each section	26	26
Net Weight (lb.)	452	542



## TAPERED STACKS

Catalog number	PH147202	PE14720
Components	PH1472Y PH1472R	PE1472J PE1472X
Technical reference number	371	373
Leakage distance (in.)	264	264
Cantilever Strength (lb.)	1,170	1,750
Tensile Strength (lb.)	20,000	20,000
Torsional Strength (in-lb.)	40,000	40,000
Compression Strength (lb.)	60,000	60,000
Critical Impulse Flashover Voltage, Positive (kV)	1,610	1,610
Withstand Voltage	Low Frequency, Wet (kV)	590
	Impulse (kV)	1470
Radio-Influence	Test Voltage to Ground (kV)	
Voltage Data	Maximum RIV at 1,000kHz ( $\mu V$ )	
	1,000	1,000
Top section: Shed diameter (in.) - "D1"	8 7/8	8 7/8
(4) Tapped holes, size (in.)	5/8-11	5/8-11
Bolt circle diameter (in.)	5	5
Cap diameter (in.) - "C1"	6 1/4	6 1/4
Number of sheds	26	26
Base section: Shed diameter (in.) - "D2"	9 5/8	9 5/8
(4) Tapped holes, size (in.)	3/4-10	3/4-10
Bolt circle diameter (in.)	7	7
Cap diameter (in.) - "C2"	8 1/2	8 1/2
Number of sheds	26	26
Net Weight (lb.)	483	483

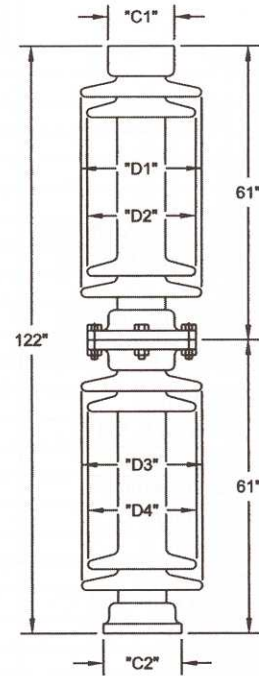


Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, and are not furnished with end mounting fasteners. State size at time of inquiry if mounting bolts are required.

2. Light gray, chocolate brown or semiconducting glaze is available.

## HLD STACKS

Catalog number	PH147901	PE14790
Components	PH1479Y1 PH1479X1	PE1479J0 PE1479X0
Leakage distance (in.)	360	350
Cantilever Strength (lb.)	1,000	1,750
Tensile Strength (lb.)	25,000	25,000
Torsional Strength (in-lb.)	90,000	90,000
Compression Strength (lb.)	90,000	90,000
Critical Impulse Flashover Voltage, Positive (kV)	1,610	1,610
Withstand Voltage	Low Frequency, Wet (kV)	590
	Impulse (kV)	1,470
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	220
	Maximum RIV at 1,000kHz ( $\mu V$ )	1,000
Top section: Number of sheds	36	36
Major Shed diameter (in.) - "D1"	10	10
Minor Shed diameter (in.) - "D2"	8 7/16	8 7/16
(4) Tapped holes, size (in.)	5/8-11	5/8-11
Bolt circle diameter (in.)	5	5
Cap diameter (in.) - "C1"	6 1/4	6 1/4
Base section: Number of sheds	36	35
Major Shed diameter (in.) - "D3"	10	10 13/16
Minor Shed diameter (in.) - "D4"	8 7/16	9 1/4
(4) Tapped holes, size (in.)	5/8-11	3/4-10
Bolt circle diameter (in.)	5	7
Cap diameter (in.) - "C2"	6 1/4	8 1/2
Net Weight (lb.)	484	550



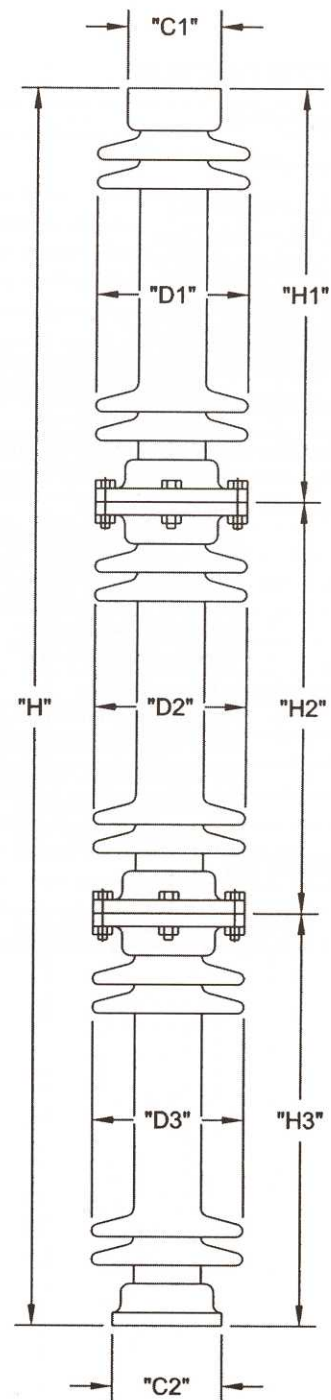
- Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, and are not furnished with end mounting fasteners. State size at time of inquiry if mounting bolts are required.  
 2. Light gray, chocolate brown or semiconducting glaze is available.

## CHARACTERISTICS

Basic Impulse Insulation Level (kV)	1,550	1,550	1,800	2,050
Catalog number	PX0611	PE15530	PE18030	PE20530
Components	PX0611J PX0611W PX0611X	PE1553J PE1553W PE1553X	PH1472Y PE1803W PE1052X	PH1472Y PE2053W PE1472X
Technical reference number	---	379	391	---
Leakage distance (in.)	320	280	330	396
Cantilever Strength (lb.)	1,000	1,700	1,400	1,200
Tensile Strength (lb.)	20,000	20,000	20,000	20,000
Torsional Strength (in-lb.)	60,000	40,000	40,000	60,000
Compression Strength (lb.)	60,000	60,000	60,000	60,000
Critical Impulse Flashover Voltage, Positive (kV)	1,710	1,710	2,000	2,420
Withstand Voltage	Low Frequency, Wet (kV)	620	620	710
	Impulse (kV)	1,550	1,550	1,800
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	318	318	350
	Maximum RIV at 1,000kHz ( $\mu$ V)	2,000	2,000	2,000
Total Height (in.) - "H"	128	128	152	182
Top section: Height (in.) - "H1"	43	43	61	61
Shed diameter (in.) - "D1"	8 1/16	8 1/16	8 7/8	8 7/8
(4) Tapped holes, size (in.)	5/8-11	5/8-11	5/8-11	5/8-11
Bolt circle diameter (in.)	5	5	5	5
Cap diameter (in.) - "C1"	6 1/4	6 1/4	6 1/4	6 1/4
Number of sheds	22	19	26	26
Center section: Height (in.) - "H2"	42	42	45	60
Shed diameter (in.) - "D2"	8 7/8	9 5/8	9 5/8	9 5/8
Number of sheds	22	19	19	26
Base section: Height (in.) - "H3"	43	43	46	61
Shed diameter (in.) - "D3"	8 7/8	9 5/8	9 5/8	10 7/16
(4) Tapped holes, size (in.)	3/4-10	3/4-10	3/4-10	3/4-10
Bolt circle diameter (in.)	7	7	7	7
Cap diameter (in.) - "C2"	8 1/2	8 1/2	8 1/2	9 3/8
Number of sheds	22	19	19	25
Net Weight (lb.)	436	560	636	820

Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, and are not furnished with end mounting fasteners. State size at time of inquiry if mounting bolts are required.

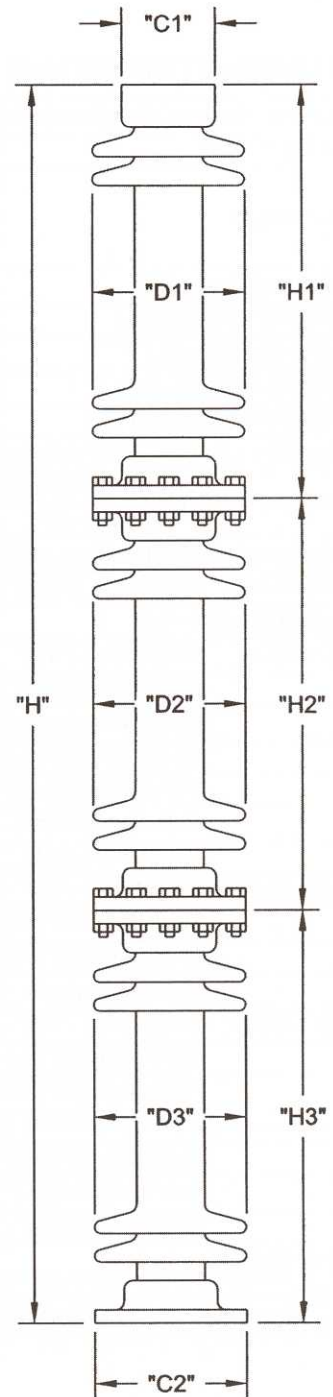
2. Light gray, chocolate brown or semiconducting glaze is available.



**CHARACTERISTICS**

Basic Impulse Insulation Level (kV)	1,550	1,800	1,800	2,050
Catalog number	PX0602	PX0590	PX0603	PX0608
Components	PX0602J PX0602W PX0602S	PX0590J PX0590W PX0590S	PX603J PX603W PX0603S	PX608J PX608W PX0608S
Leakage distance (in.)	305	330	360	432
Cantilever Strength (lb.)	2,500	1,750	2,500	2,000
Tensile Strength (lb.)	25,000	20,000	25,000	20,000
Torsional Strength (in-lb.)	60,000	60,000	90,000	60,000
Compression Strength (lb.)	60,000	60,000	90,000	60,000
Critical Impulse Flashover Voltage, Positive (kV)	1,710	2,000	2,000	2,250
Withstand Voltage	Low Frequency, Wet (kV)	620	710	830
	Impulse (kV)	1,550	1,800	1,800
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	318	318	318
	Maximum RIV at 1,000kHz (μV)	2,000	2,000	2,000
Total Height (in.) - "H"	128	152	152	185
Top section:	Height (in.) - "H1"	43	61	51
	Shed diameter (in.) - "D1"	8 7/8	9 1/4	8 7/8
	(4) Tapped holes, size (in.)	5/8-11	5/8-11	5/8-11
	Bolt circle diameter (in.)	5	5	5
	Cap diameter (in.) - "C1"	6 1/4	6 1/4	6 1/4
	Number of sheds	21	26	26
Center section:	Height (in.) - "H2"	42	45	50
	Shed diameter (in.) - "D2"	9 11/16	9 11/16	10 7/16
	Number of sheds	21	19	25
	Number of sheds	21	19	25
Base section:	Height (in.) - "H3"	43	46	51
	Shed diameter (in.) - "D3"	10 7/16	10 7/16	11 1/4
	Hole size (in.) & number	13/16 (4)	13/16 (4)	13/16 (4)
	Bolt circle diameter (in.)	14	14	14
	Flange diameter (in.) - "C2"	15 3/8	15 3/8	15 3/8
Number of sheds	21	19	25	
Net Weight (lb.)	665	710	810	1,060

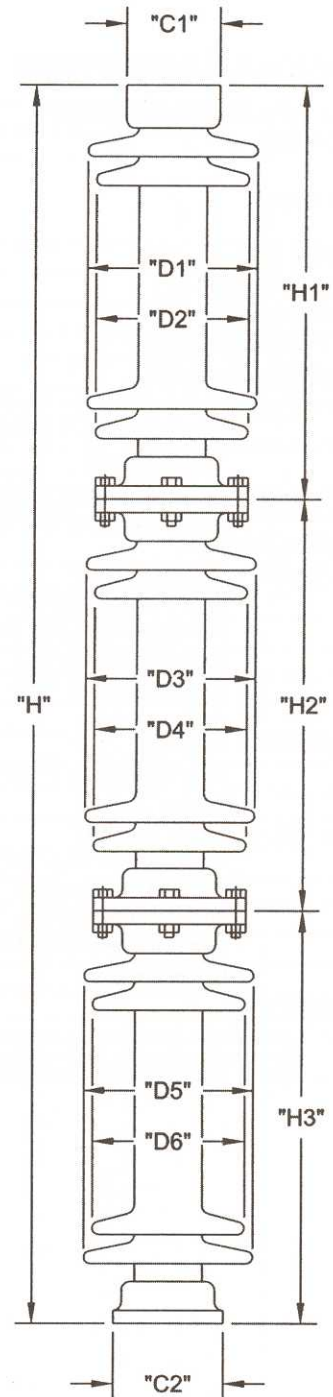
Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, and are not furnished with end mounting fasteners. State size at time of inquiry if mounting bolts are required.  
2. Light gray, chocolate brown or semiconducting glaze is available.

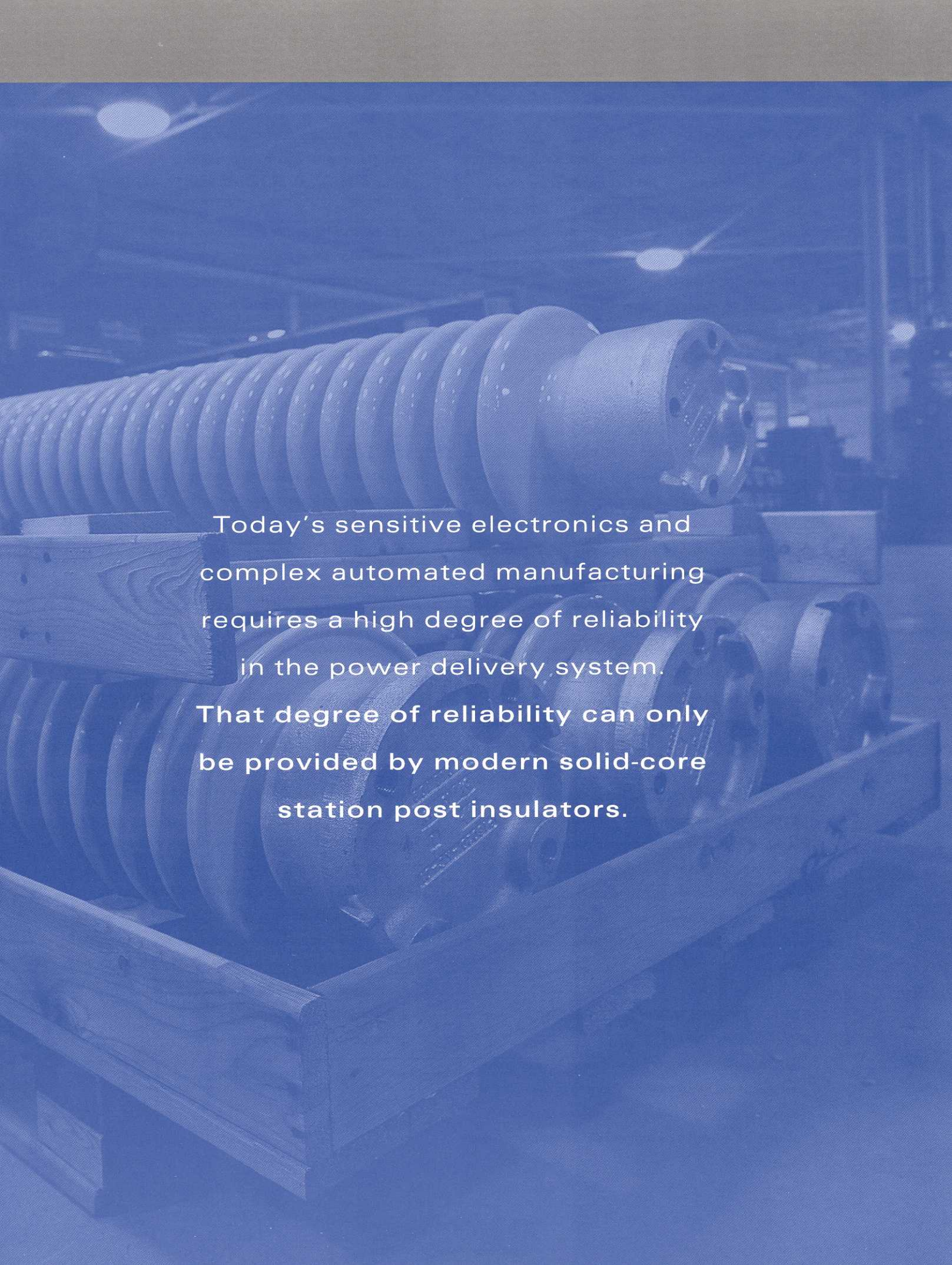


## CHARACTERISTICS

Basic Impulse Insulation Level (kV)	1,550	1,800	2,050		
Catalog number	PE15590	PE18090	PE20590		
Components	PE1559J0 PE1559W0 PE1559X0	PH1479Y1 PE1809W0 PE1059X0	PH1479Y1 PE2059W0 PE2059X0		
Leakage distance (in.)	356	436	536		
Cantilever Strength (lb.)	1,700	1,400	1,200		
Tensile Strength (lb.)	25,000	20,000	20,000		
Torsional Strength (in-lb.)	90,000	60,000	60,000		
Compression Strength (lb.)	90,000	60,000	60,000		
Critical Impulse Flashover Voltage, Positive (kV)	1,710	2,000	2,420		
Withstand Voltage	Low Frequency, Wet (kV)	620	710	830	
	Impulse (kV)	1,550	1,800	2,050	
Radio-Influence Voltage Data	Test Voltage to Ground (kV)	318	318	350	
	Maximum RIV at 1,000kHz (μV)	2,000	2,000	2,000	
Total Height (in.) - "H"	128	152	182		
Top section:	Height (in.) - "H1"	43	61	61	
	Shed diameter (in.) - "D1"	9 1/4	10	10	
	Shed diameter (in.) - "D2"	7 11/16	8 7/16	8 7/16	
	(4) Tapped holes, size (in.)	5/8-11	5/8-11	5/8-11	
	Bolt circle diameter (in.)	5	5	5	
	Cap diameter (in.) - "C1"	6 1/4	6 1/4	6 1/4	
	Number of sheds	24	36	36	
	Center section:	Height (in.) - "H2"	42	45	60
		Shed diameter (in.) - "D3"	10 13/16	10 13/16	10 13/16
		Shed diameter (in.) - "D4"	9 1/4	9 1/4	9 1/4
Number of sheds		23	25	35	
Base section:		Height (in.) - "H3"	43	46	61
	Shed diameter (in.) - "D5"	10 13/16	10 13/16	11 5/8	
	Shed diameter (in.) - "D6"	9 1/4	9 1/4	10	
	(4) Tapped holes, size (in.)	3/4-10	3/4-10	3/4-10	
	Bolt circle diameter (in.)	7	7	7	
	Cap diameter (in.) - "C2"	8 1/2	8 1/2	9 3/8	
	Number of sheds	23	25	35	
Net Weight (lb.)	600	719	910		

Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, and are not furnished with end mounting fasteners. State size at time of inquiry if mounting bolts are required.  
2. Light gray, chocolate brown or semiconducting glaze is available.





Today's sensitive electronics and complex automated manufacturing requires a high degree of reliability in the power delivery system.

That degree of reliability can only be provided by modern solid-core station post insulators.