



Westinghouse Electric Corporation
Industrial Ceramics Department
Porcelain Park, Derry, Pa. USA 15627

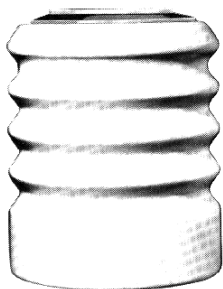
Descriptive Bulletin
36-450

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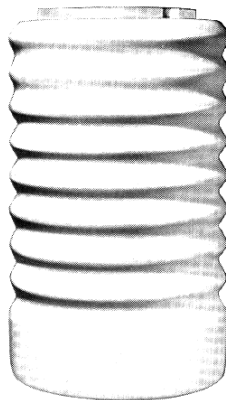
September, 1979
Supersedes 36-450 D WE A,
Pages 1-4, Dated January, 1975

Mailed To: E, D, C/Special

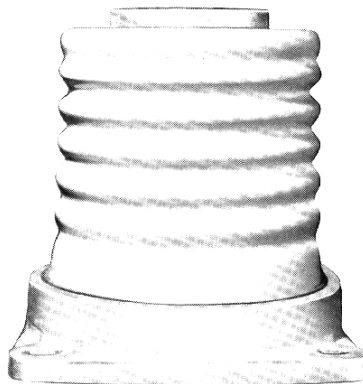
Indoor Bus Insulators



Type A-20



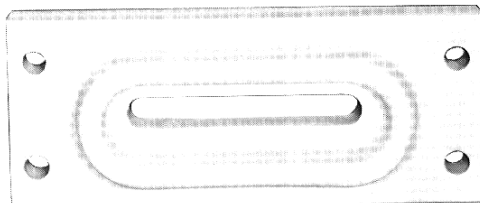
Type A-30



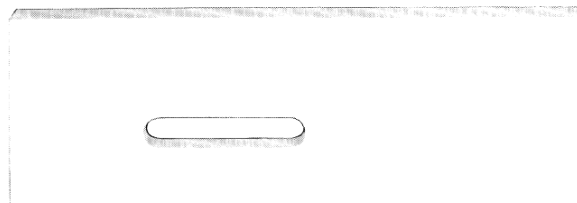
Type B-40



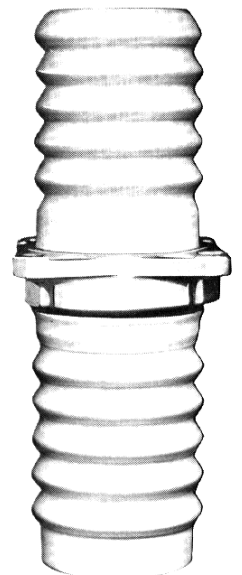
Type B-50



Bus-Bar Support

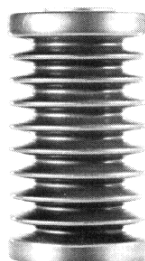
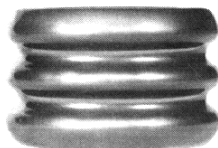


Bus-Bar
Support



Back Connected

Stand-Off Insulators



Westinghouse bus insulators are made of the highest quality electrical porcelain, designed to meet NEMA standards, and the same exacting quality standards required for porcelain bushings for application on power circuit breakers, transformers, capacitors, and other electrical apparatus.

Porcelain

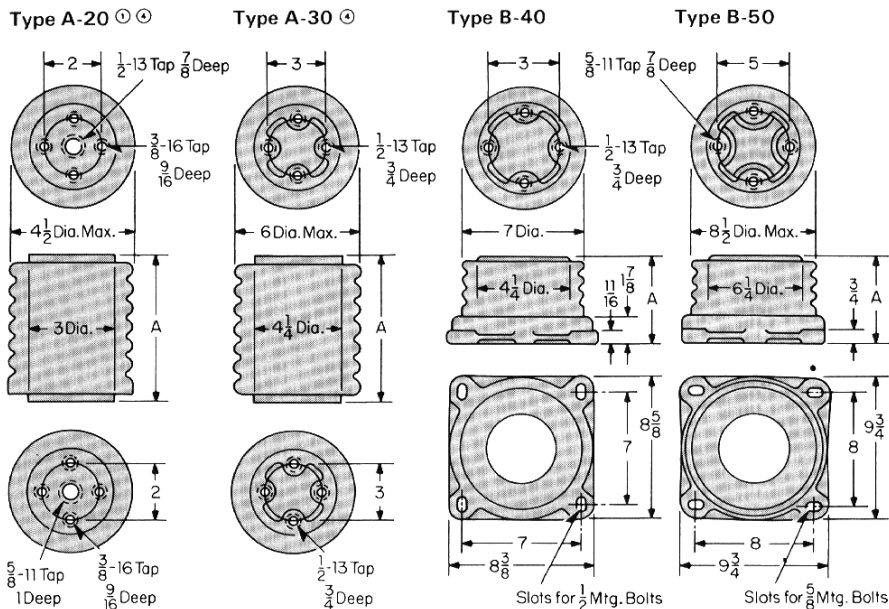
Porcelain parts are of the highest grade and manufactured from the finest raw materials in a factory modern in every respect, staffed by personnel well experienced in the commercial production of high-voltage porcelain. The porcelain is tough, homogeneous and non-porous, coated with a permanent glaze, meeting acceptable commercial standards.

Glazes

Westinghouse glazes are compounded to "fit" the porcelain correctly in order to produce the strongest possible combination of porcelain and glaze. Chocolate glaze or ASA-70 gray is available.

Assemblies

Assembly is made in special jigs to assure complete interchangeability. Bolt holes are aligned; spacing is accurately maintained and surfaces at top and base are parallel. Care is taken in the assembly of the metal and porcelain parts to eliminate thermal stresses. Sand bands are fired to the porcelain to obtain maximum bond between porcelain and metal parts.



Class A and B BIL Switch and Bus Insulator

Class Or Type	Kv Nom.	Withstand Impulse	Low Freq. 60 Hz	Cantilever lbs. ①	Torsion lbs.	Tension lbs.	Compression lbs.	Height Inches "A"	Weight lbs. Each	Type Assembly	Style Number	
											Brown	Gray
A-20	4.8	60	19	1000	2500	2000	20000	3 1/2	5.50	Alloy	548D224G05	
									4.00	S.B.C. ②	548D224G07	
A-20	7.2	75	26	1500	3500	3000	20000	4 1/2	6.75	Alloy	548D229G05	
									5.25	S.B.C. ②	548D229G07	
A-20	13.2	95	36	1250	3500	3000	20000	6	8.75	Alloy	548D235G05	
									7.25	S.B.C. ②	548D235G07	
A-20	14.4	110	50	1000	3500	3000	20000	7 1/2	11.00	Alloy	548D236G05	
									9.50	S.B.C. ②	548D236G07	
A-30	4.8	60	19	2000	4500	3500	30000	3 1/2		Alloy	1581 771	12B7983G04
A-30	7.2	75	26	3000	6000	5000	30000	4 1/2		Alloy	1581 772	12B7984G04
A-30	13.2	95	36	2500	6000	5000	30000	6		Alloy	1581 773	12B7985G04
A-30	14.4	110	50	2000	6000	5000	30000	7 1/2		Alloy	1581 775	13B4389G04
A-30	23	150	60	1500	6000	5000	30000	10 1/2		Alloy	1581 776	13B4390G04
A-30	34.5	200	80	1250	6000	5000	30000	15		Alloy	1581 767	12B3910G03
B-40	7.2	75	26	6000	10000	8000	50000	6		Alloy	1584 610	13B4391G04
B-40	13.2	95	36	5000	10000	8000	50000	7 1/2		Alloy	1584 611	13B4392G03
B-40	14.4	110	50	4000	10000	8000	50000	9		Alloy	1584 612	13B4393G04
B-40	23	150	60	3000	10000	8000	50000	12		Alloy	1584 613	13B4394G04
B-40	34.5	200	80	2500	10000	8000	50000	15		Alloy	1584 614	13B4395G04
B-50	7.2	75	26	12000	15000	12000	80000	6		Alloy	1584 615	13B4427G03
B-50	13.2	95	36	10000	15000	12000	80000	7 1/2		Alloy	1584 616	13B4428G03
B-50	14.4	110	50	8000	15000	12000	80000	9		Alloy	1584 617	13B4429G03

① All A-20 insulators available in gray glaze only and with center taps plus four 3/8-16" holes on 2 inch bolt circle.

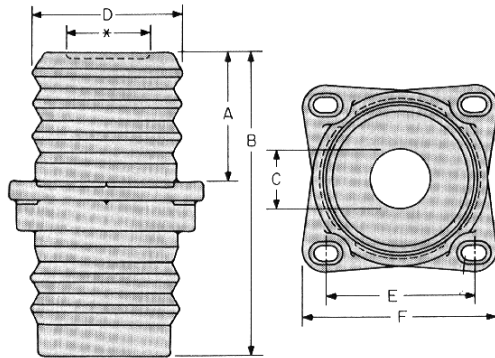
② Sulphur Base Cement

③ At 2 1/2" above top of insulator

④ Hi-Strength and Hi-Creep Units Available Upon Request.

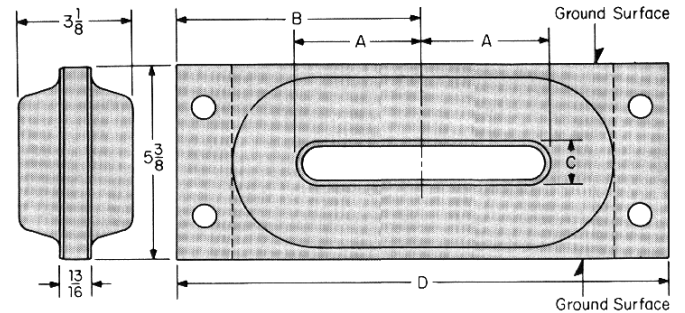


Indoor Back-Connected Insulators



Style Number		Dimensions in Inches							
Brown	Gray	*	A	B	C	D	E	F	
413C882G05		Insert	6 $\frac{3}{8}$	12 $\frac{7}{8}$	1 $\frac{9}{16}$	4 $\frac{1}{2}$	4 $\frac{1}{4}$	5 $\frac{3}{8}$	
413C882G06		Insert	3 $\frac{7}{8}$	7 $\frac{7}{8}$	1 $\frac{9}{16}$	4 $\frac{1}{2}$	4 $\frac{1}{4}$	5 $\frac{3}{8}$	
1584620	18A3855G17	No Insert	3 $\frac{7}{8}$	9 $\frac{13}{32}$	2	4 $\frac{15}{32}$	4 $\frac{1}{2}$	5 $\frac{5}{8}$	
1584621	18A3855G19	No Insert	4 $\frac{7}{8}$	11 $\frac{15}{32}$	2	4 $\frac{15}{32}$	4 $\frac{1}{2}$	5 $\frac{5}{8}$	
1584622	18A3855G18	No Insert	6 $\frac{3}{8}$	14 $\frac{9}{16}$	2	4 $\frac{15}{32}$	4 $\frac{1}{2}$	5 $\frac{5}{8}$	
1584623	18A3855G20	No Insert	7 $\frac{7}{8}$	17 $\frac{21}{32}$	2	4 $\frac{15}{32}$	4 $\frac{1}{2}$	5 $\frac{5}{8}$	
1584628	18A3855G21	No Insert	3 $\frac{7}{8}$	9 $\frac{13}{16}$	2 $\frac{13}{16}$	5 $\frac{15}{16}$	6	7 $\frac{3}{8}$	
1584629	18A3855G21	No Insert	4 $\frac{7}{8}$	11 $\frac{7}{8}$	2 $\frac{13}{16}$	5 $\frac{15}{16}$	6	7 $\frac{3}{8}$	
1584630	18A3855G22	No Insert	6 $\frac{3}{8}$	14 $\frac{31}{32}$	2 $\frac{13}{16}$	5 $\frac{15}{16}$	6	7 $\frac{3}{8}$	
1584631	18A3855G24	No Insert	7 $\frac{7}{8}$	18 $\frac{1}{16}$	2 $\frac{13}{16}$	5 $\frac{15}{16}$	6	7 $\frac{3}{8}$	
1584632	18A3855G25	No Insert	10 $\frac{7}{8}$	24 $\frac{1}{4}$	2 $\frac{13}{16}$	5 $\frac{15}{16}$	6	7 $\frac{3}{8}$	

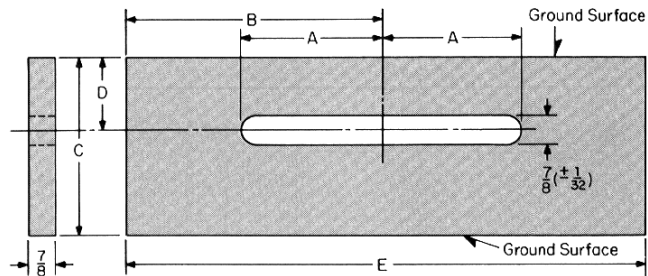
Metal-Clad Switchgear Insulators



Style Number	Bus Size	Dimension in Inches				Color
		A	B	C	D	
425D481H01	1/2 x 6	3.36	6.75	1.12	13 $\frac{1}{2}$	Gray
425D481H02	1/2 x 4	2.36	5.75	1.12	13 $\frac{1}{2}$	Gray
425D481H03	1/2 x 3	1.91	5.25	1.12	13 $\frac{1}{2}$	Gray
425D481H04	1/2 x 6	3.23	6.75	.88	13 $\frac{1}{2}$	Gray
425D481H05	1/2 x 4	2.23	6.75	.88	13 $\frac{1}{2}$	Gray
425D481H06	1/2 x 3	1.73	6.75	.88	13 $\frac{1}{2}$	Gray
135D611H01	1/2 x 8	4.28	7.75	.88	15 $\frac{1}{2}$	Gray
5062D05H01	3/4 x 3	1.91	6.75	1.16	13 $\frac{1}{2}$	Gray
5062D05H02	3/4 x 6	3.36	6.75	1.16	13 $\frac{1}{2}$	Gray
5062D05H03	3/4 x 6 (2)	3.36	6.75	2.12	13 $\frac{1}{2}$	Gray

Note: Similar designs also available on Drawings 814G099, 7184D95 and 7184D96.

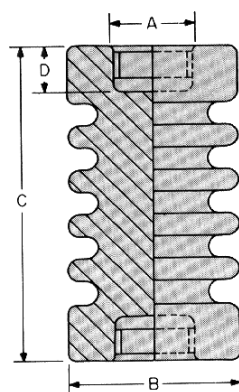
Metal-Clad Switchgear Insulators



Style Number	Bus Size	Dimensions and Tolerance in Inches					Color
		A	B	C	D	E	
5 Kv							
437D923H01	½ x 3	1 ¹⁷ / ₆₄	4½	4 ¹¹ / ₁₆	2 ¹¹ / ₃₂	14	Gray
437D923H02	½ x 4	2 ¹⁵ / ₆₄	5	4 ¹¹ / ₁₆	2 ¹¹ / ₃₂	14	Gray
437D923H03	½ x 6	3¼	6	4 ¹¹ / ₁₆	2 ¹¹ / ₃₂	14	Gray
437D923H04	½ x 8	4 ⁹ / ₃₂	7	4 ¹¹ / ₁₆	2 ¹¹ / ₃₂	14	Gray
15 Kv							
437D923H05	½ x 3	1 ¹⁷ / ₆₄	5½	5 ⁵ / ₁₆	2 ¹ / ₃₂	16	Gray
437D923H06	½ x 4	2 ¹⁵ / ₆₄	6	5 ⁵ / ₁₆	2 ¹ / ₃₂	16	Gray
437D923H07	½ x 6	3¼	7	5 ⁵ / ₁₆	2 ¹ / ₃₂	16	Gray
437D923H08	½ x 8	4 ⁹ / ₃₂	8	5 ⁵ / ₁₆	2 ¹ / ₃₂	16	Gray
437D923H09	½ x 3	1 ¹⁷ / ₆₄	5½	5 ⁵ / ₁₆	2 ²¹ / ₃₂	16	Gray
437D923H10	½ x 4	2 ¹⁵ / ₆₄	6	5 ⁵ / ₁₆	2 ²¹ / ₃₂	16	Gray
437D923H11	½ x 6	3¼	7	5 ⁵ / ₁₆	2 ²¹ / ₃₂	16	Gray
437D923H12	½ x 8	4 ⁹ / ₃₂	8	5 ⁵ / ₁₆	2 ²¹ / ₃₂	16	Gray

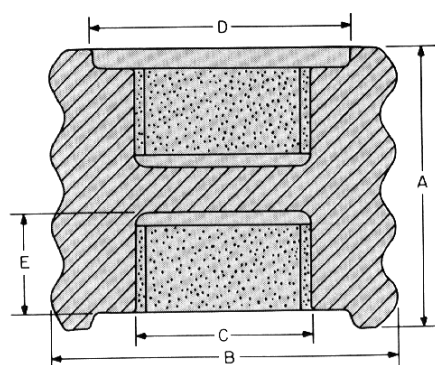


Stand-Off Insulators



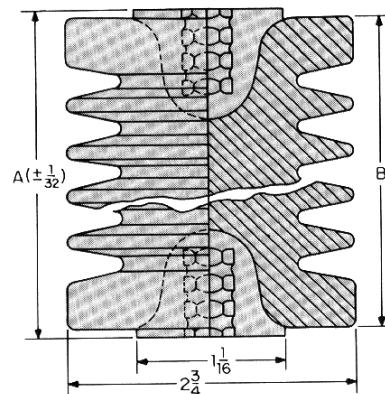
Style Number	A	B	C	D
814C070H01	1.28	2.75	5.0	.62
184C403H01	1.28	2.75	6.0	.62
184C521H01	1.28	3.0	9.0	.62
184C494H01	1.28	3.25	11.0	.62
295B572H01	2.25	4.0	4.31	1.25

Color: Brown



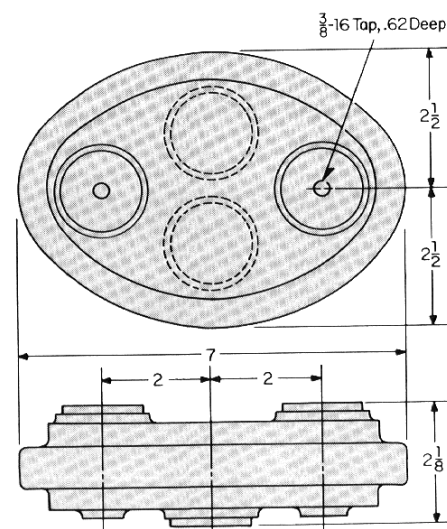
Style Number	A	B	C	D	E
184C436H01	2.43	3.0	1.50	2.25	1.03
184C438H01	2.44	4.0	2.06	3.25	.88

Color: Brown



Style Number	A	B	Insert
12C2292H01	2 ¹⁵ / ₁₆ "	4 ¹³ / ₁₆ "	None—Sand Band Holes
12C2292H01	4 ¹³ / ₁₆ "	6 ⁵ / ₁₆ "	None—Sand Band Holes
12C2292H05	3 ¹ / ₈ "	5"	3/8-16" Tap 3/8" deep
12C2292G01	6 ¹ / ₂ "	6 ¹ / ₂ "	3/8-16" Tap 3/8" deep
12C2292G02	6 ¹ / ₂ "	6 ¹ / ₂ "	3/8-16" Tap 3/8" deep
12C2292G03	6 ¹ / ₂ "	6 ¹ / ₂ "	3/8-16" Tap 3/8" deep

Color: Brown



Style Number 437D924G01
Color: Gray