



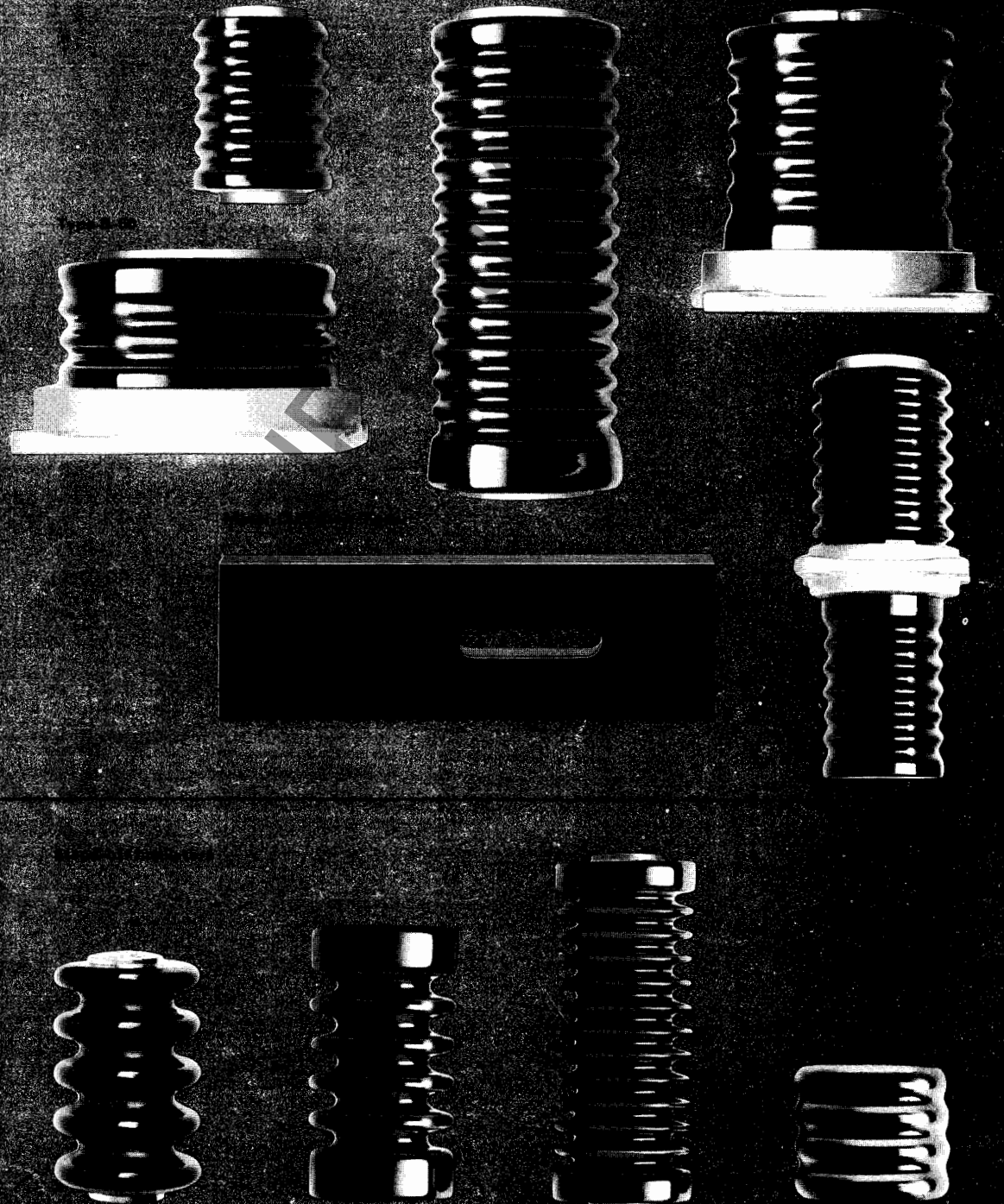
Westinghouse Electric Corporation
Industrial Materials Division
Industrial Ceramics Department
Porcelain Park, Derry, Pa. USA 15627

36-450 D WE A
Descriptive Bulletin

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Indoor Bus 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.

Construction 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

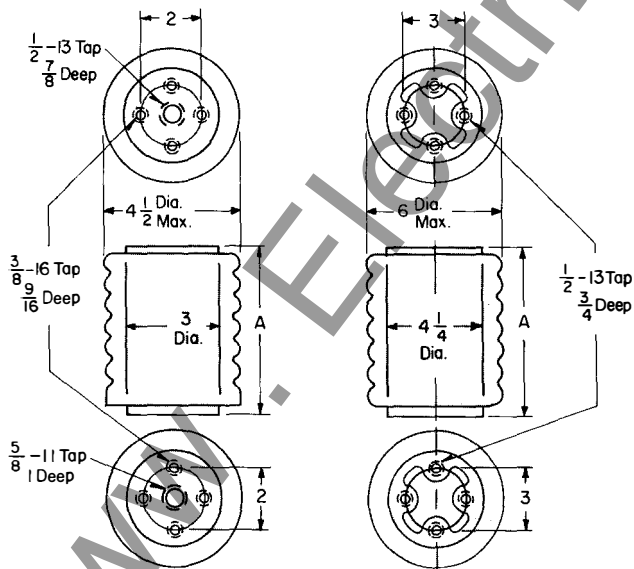
Assembly is made in special jigs to assure complete interchangeability. Bolt holes are aligned; spacing is accurately maintained and surfaces at top and base are parallel. Care is taken in the assembly of the metal and porcelain parts to eliminate thermal stresses. Sand bands are fired to the porcelain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

Class A and B BIL Switch and Bus Insulator

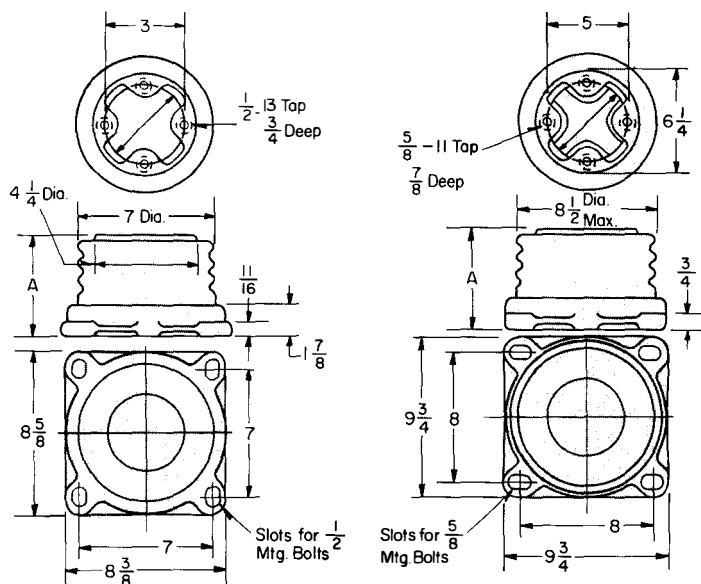
Class Or Type	Kv Nom.	With-stand Impulse	Low Freq. 60 Hz	Canti-lever lbs ②	Torsion lbs	Tension lbs	Com-pression lbs	Height Inches "A"	Type Assembly	Color	Style Number
A-20	4.8	60	19	1000	2500	2000	20000	3 1/2	Alloy	Brown	548-D-224G02
									Alloy	Gray	548-D-224G05
									S.B.C. ①	Brown	548-D-224G04
									S.B.C. ①	Gray	548-D-224G07
A-20	7.2	75	26	1500	3500	3000	20000	4 1/2	Alloy	Brown	548-D-229G04
									Alloy	Gray	548-D-229G05
									S.B.C. ①	Brown	548-D-229G02
S.B.C. ①	Gray	548-D-229G07									
A-20	13.2	95	36	1250	3500	3000	20000	6	Alloy	Brown	548-D-235G04
									Alloy	Gray	548-D-235G05
									S.B.C. ①	Brown	548-D-235G02
S.B.C. ①	Gray	548-D-235G07									
A-20	14.4	110	50	1000	3500	3000	20000	7 1/2	Alloy	Brown	548-D-236G04
									Alloy	Gray	548-D-236G05
									S.B.C. ①	Brown	548-D-236G02
									S.B.C. ①	Gray	548-D-236G07
A-30	4.8	60	19	2000	4500	3500	30000	3 1/2	Alloy	Brown	1581 771
A-30	7.2	75	26	3000	6000	5000	30000	4 1/2	Alloy	Brown	1581 772
A-30	13.2	95	36	2500	6000	5000	30000	6	Alloy	Brown	1581 773
A-30	14.4	110	50	2000	6000	5000	30000	7 1/2	Alloy	Brown	1581 775
A-30	23	150	60	1500	6000	5000	30000	10 1/2	Alloy	Brown	1581 776
A-30	34.5	200	80	1250	6000	5000	30000	15	Alloy	Brown	1581 767
B-40	7.2	75	26	6000	10000	8000	50000	6	Alloy	Brown	1584 610
B-40	13.2	95	36	5000	10000	8000	50000	7 1/2	Alloy	Brown	1584 611
B-40	14.4	110	50	4000	10000	8000	50000	9	Alloy	Brown	1584 612
B-40	23	150	60	3000	10000	8000	50000	12	Alloy	Brown	1584 613
B-40	34.5	200	80	2500	10000	8000	50000	15	Alloy	Brown	1584 614
B-50	7.2	75	26	12000	15000	12000	80000	6	Alloy	Brown	1584 615
B-50	13.2	95	36	10000	15000	12000	80000	7 1/2	Alloy	Brown	1584 616
B-50	14.4	110	50	8000	15000	12000	80000	9	Alloy	Brown	1584 617

① Sulphur Base Cement
② At 2 1/2" above top of insulator

Types A-20, A-30



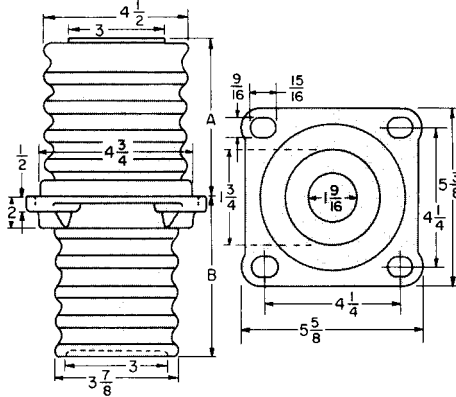
Types B-40, B-50



Type A-20 Above available without center tap in insert also



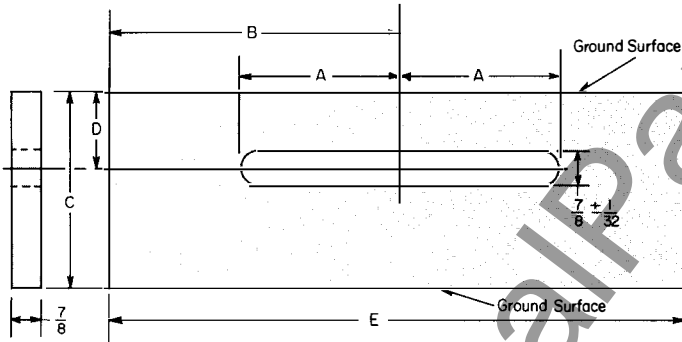
Indoor Back-Connected Insulators



Style Number	A	B
413C882G05	6 $\frac{3}{8}$ "	6 $\frac{1}{2}$ "
413C882G06	3 $\frac{7}{8}$ "	4"
413C882G07	7 $\frac{7}{8}$ "	8"

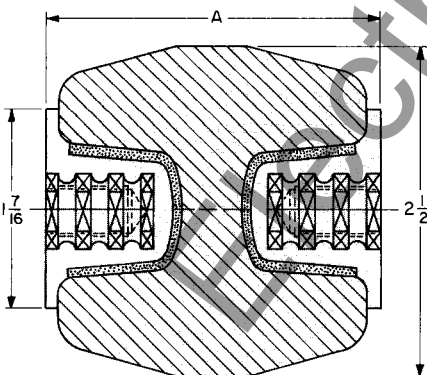
Note: Other sizes available on special order.

Metal-Clad Switchgear Insulators

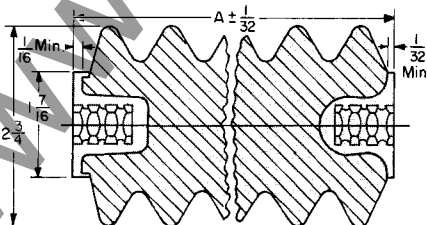


5Kv												
Style Number	Bus Size	A	Tol.	B	Tol.	C	Tol.	D	Tol.	E	Tol.	Color
437D923H01	$\frac{1}{2}$ x 3	1 $\frac{7}{16}$ ± $\frac{3}{64}$		4 $\frac{1}{2}$ ± $\frac{3}{32}$		4 $\frac{1}{16}$ ± $\frac{1}{32}$		2 $\frac{1}{32}$ ± $\frac{1}{32}$		14 ± $\frac{1}{32}$		Brown
437D923H02	$\frac{1}{2}$ x 4	2 $\frac{15}{64}$ ± $\frac{3}{64}$		5 ± $\frac{3}{64}$		4 $\frac{1}{16}$ ± $\frac{1}{32}$		2 $\frac{1}{32}$ ± $\frac{1}{32}$		14 ± $\frac{1}{32}$		Brown
437D923H03	$\frac{1}{2}$ x 6	3 $\frac{3}{4}$ ± $\frac{1}{16}$		6 ± $\frac{3}{64}$		4 $\frac{1}{16}$ ± $\frac{1}{32}$		2 $\frac{1}{32}$ ± $\frac{1}{32}$		14 ± $\frac{1}{32}$		Brown
437D923H04	$\frac{1}{2}$ x 8	4 $\frac{7}{32}$ ± $\frac{3}{32}$		7 ± $\frac{3}{64}$		4 $\frac{1}{16}$ ± $\frac{1}{32}$		2 $\frac{1}{32}$ ± $\frac{1}{32}$		14 ± $\frac{1}{32}$		Brown
15Kv												
437D923H05	$\frac{1}{2}$ x 3	1 $\frac{7}{16}$ ± $\frac{3}{64}$		5 $\frac{1}{2}$ ± $\frac{3}{64}$		5 $\frac{1}{16}$		2 $\frac{1}{32}$		16 ± $\frac{1}{16}$		Brown
437D923H06	$\frac{1}{2}$ x 4	2 $\frac{15}{64}$ ± $\frac{3}{64}$		6 ± $\frac{3}{64}$		5 $\frac{1}{16}$		2 $\frac{1}{32}$		16 ± $\frac{1}{16}$		Brown
437D923H07	$\frac{1}{2}$ x 6	3 $\frac{3}{4}$ ± $\frac{3}{64}$		7 ± $\frac{3}{64}$		5 $\frac{1}{16}$		2 $\frac{1}{32}$		16 ± $\frac{1}{16}$		Brown
437D923H08	$\frac{1}{2}$ x 8	4 $\frac{7}{32}$ ± $\frac{3}{32}$		8 ± $\frac{3}{32}$		5 $\frac{1}{16}$		2 $\frac{1}{32}$		16 ± $\frac{1}{16}$		Brown
437D923H09	$\frac{1}{2}$ x 3	1 $\frac{7}{16}$ ± $\frac{3}{64}$		5 $\frac{1}{2}$ ± $\frac{3}{64}$		5 $\frac{1}{16}$		2 $\frac{3}{32}$		16 ± $\frac{1}{16}$		Brown
437D923H10	$\frac{1}{2}$ x 4	2 $\frac{15}{64}$ ± $\frac{3}{64}$		6 ± $\frac{3}{64}$		5 $\frac{1}{16}$		2 $\frac{3}{32}$		16 ± $\frac{1}{16}$		Brown
437D923H11	$\frac{1}{2}$ x 6	3 $\frac{3}{4}$ ± $\frac{3}{64}$		7 ± $\frac{3}{64}$		5 $\frac{1}{16}$		2 $\frac{3}{32}$		16 ± $\frac{1}{16}$		Brown
437D923H12	$\frac{1}{2}$ x 8	4 $\frac{7}{32}$ ± $\frac{3}{32}$		8 ± $\frac{3}{32}$		5 $\frac{1}{16}$		2 $\frac{3}{32}$		16 ± $\frac{1}{16}$		Brown

Stand-Off Insulators

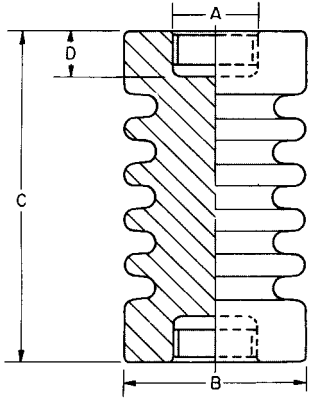


Style Number	A	Inserts
295B555G01	2 $\frac{1}{2}$ "	$\frac{3}{8}$ -16" x $\frac{3}{8}$ "
295B555G02	2 $\frac{3}{4}$ "	$\frac{3}{8}$ -16" x $\frac{3}{8}$ "
295B555G03	3"	$\frac{3}{8}$ -16" x $\frac{3}{8}$ "
295B555G04	3 $\frac{1}{4}$ "	$\frac{3}{8}$ -16" x $\frac{3}{8}$ "
295B555G05	3 $\frac{1}{2}$ "	$\frac{3}{8}$ -16" x $\frac{3}{8}$ "
295B556G01	2 $\frac{1}{2}$ "	$\frac{1}{2}$ -13" x $\frac{3}{8}$ "
295B556G02	2 $\frac{3}{4}$ "	$\frac{1}{2}$ -13" x $\frac{3}{8}$ "
295B556G03	3"	$\frac{1}{2}$ -13" x $\frac{3}{8}$ "
295B556G04	3 $\frac{1}{4}$ "	$\frac{1}{2}$ -13" x $\frac{3}{8}$ "
295B556G05	3 $\frac{1}{2}$ "	$\frac{1}{2}$ -13" x $\frac{3}{8}$ "
295B557G01	3"	$\frac{3}{8}$ -11" x $\frac{3}{4}$ "
295B557G02	3 $\frac{1}{4}$ "	$\frac{3}{8}$ -11" x $\frac{3}{4}$ "
295B557G03	3 $\frac{1}{2}$ "	$\frac{3}{8}$ -11" x $\frac{3}{4}$ "

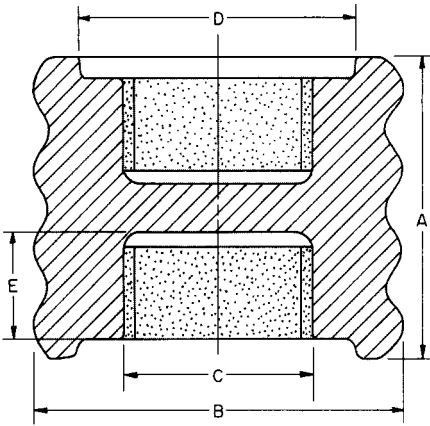


Style Number	A	Insert
1409546	4 $\frac{1}{4}$ "	None—Sand Band Holes
1409547	2 $\frac{15}{16}$ "	None—Sand Band Holes
1409548	4 $\frac{1}{16}$ "	$\frac{3}{8}$ -16" Tap $\frac{3}{8}$ " deep
1409549	3 $\frac{3}{8}$ "	$\frac{3}{8}$ -16" Tap $\frac{3}{8}$ " deep

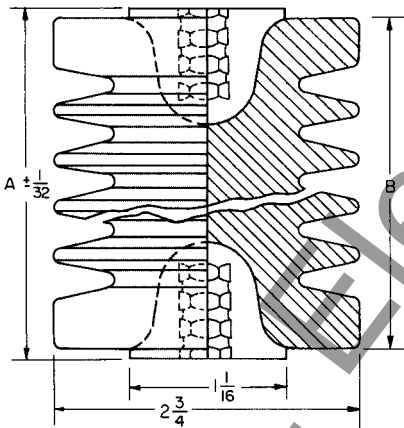
Stand-Off Insulators



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



Style Number	A	B	C	D	E
184C436H01	2.43	3.0	1.5	2.25	1.03
184C438H01	2.44	4.0	2.06	3.25	.88



Style Number	A	B	Insert
12C2292H01	2 $\frac{1}{16}$ "	None	Sand Band Holes
12C2292H02	4 $\frac{1}{16}$ "	None	Sand Band Holes
12C2292H05	6 $\frac{1}{16}$ "	None	Sand Band Holes
12C2292G01	3 $\frac{1}{8}$ "	$\frac{3}{16}$ "	$\frac{3}{16}$ " Tap $\frac{3}{16}$ " deep
12C2292G02	5"	$\frac{3}{16}$ "	$\frac{3}{16}$ " Tap $\frac{3}{16}$ " deep
12C2292G03	6 $\frac{1}{2}$ "	$\frac{3}{16}$ "	$\frac{3}{16}$ " Tap $\frac{3}{16}$ " deep