Capnut Terminations

For single and three-conductor underground cable systems through 46kV

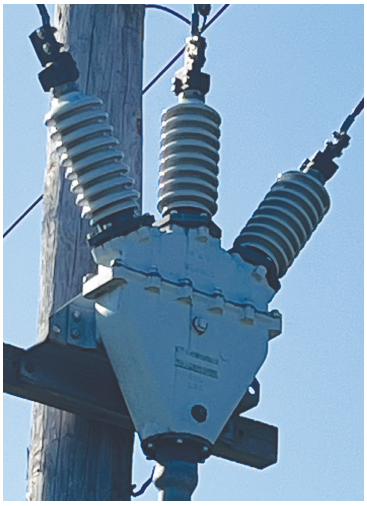
G&W Electric

Engineered to order. Built to last.

G&W Electric Capnut terminations offer field-proven reliability, field assembled units which offer complete system flexibility. Interchangeable aerial lugs/hoodnut connector assemblies, porcelains, bodies and cable entrance fittings enable these terminations to accept any construction of extruded dielectric, paper insulated or armored cable on distribution systems up to 46kV. Various styles of single and three conductor units are available. Capnut terminations are designed and tested in accordance with IEEE-48, 1975 standards for Class 1 terminations.

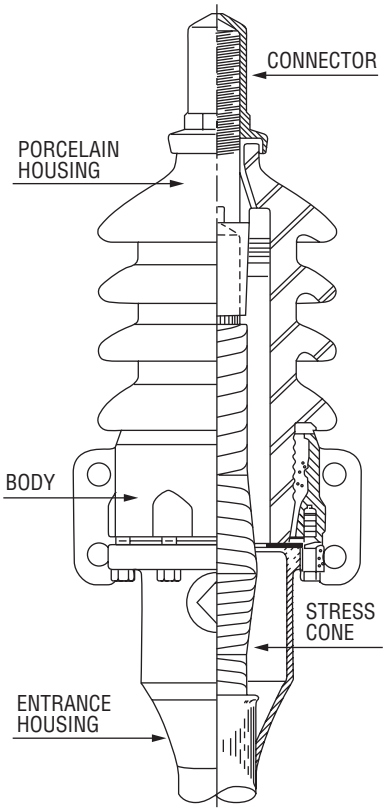
FEATURES AND BENEFITS

- **Maximum External Insulation** — High grade, wet process porcelain provides excellent mechanical strength and electrical characteristics. Porcelains are designed with a thick wall construction and maintain safe creepage and strike distances. Various styles of petticoated or corrugated type porcelains are available for either indoor, outdoor, inverted or equipment mounted applications.
- **Reliable Stress Control** — Stress relief cone kits consisting of insulating tapes and shielding braid are available depending upon cable construction. Various compounds or oils are available as an internal insulating medium for the terminators depending upon the application.
- **Versatility** — Interchangeable aerial lugs, hoodnut connector assemblies, porcelains, bodies and cable entrance fittings provide maximum system flexibility. Terminations are available for any size and type of paper insulated, extruded dielectric and armored cable rated up to 46kV.



COMPONENTS

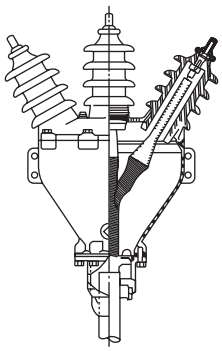
- **External Insulation** — High strength, wet process porcelains for outdoor, indoor or inverted application are gasket sealed to the body or lid of the termination. Outdoor and inverted type porcelains are petticoat designed to provide additional external creepage and strike distance. Corrugated style porcelains are used for indoor and oil filled equipment applications. Detachable porcelains are available for certain style terminations.
- **Bodies** — Bodies are made of nonmagnetic cast aluminum for cool operating temperatures and ease of handling. Cast iron or bronze bodies are available. Various multi-conductor body shapes are available depending upon the application and cable training.
- **Lids** — Multi-conductor lids are made of non-magnetic cast aluminum. Bronze lids are available. Various styles of three conductor lids are available using either parallel mounted or diverging type porcelains.
- **Entrance Fittings** — Interchangeable cable entrance fittings are available to match the cable construction.
- **Connectors** — Copper solder type connector assemblies are standard and for use on copper cable. Copper or bimetallic compression connector assemblies are available for press type application on copper or aluminum cable.



Components (continued)

- **Aerial lugs** — Copper aerial lugs for clamp, solder and bus connections are available. Lugs can be silver plated or tinned.
- **Stress relief** — Hand taped stress relief cones effectively control electrical stresses in the cable. Various kits consisting of insulating tapes and shielding braid are available depending upon the cable construction and voltage ratings.
- **Internal insulating material** — Insulating compound (or oil) is required for all Capnut termination installations. Various compound materials are available depending upon the cable construction and voltage rating.
- **Brackets** — Vertical style mounting brackets are welded or cast into the body of the termination. Flange style units incorporate welded or cast on mounting flanges. Bracket and flange insulators and mounting gaskets are available.

Spreader Heads



Various styles of spreader heads are available for use with single conductor terminations when a greater phase-to-phase aerial spacing is required for 3/C cable applications.

ORDERING INFORMATION

The following steps are needed for ordering:

1. Specify system voltage, BIL, and whether 1/C or 3/C, indoor, outdoor, or equipment application.
2. Provide a complete description of the cable including construction, maximum conductor sizes, maximum diameters over insulation, cable jacket or sheath and cable manufacturer (if known).
3. Specify aerial lug, connector (solder or compression), cable entrance, stress cone kit and compound required.

TYPICAL SPECIFICATIONS

General — This specification covers the requirements for a cable termination for (bracket) (flange) mounted installation. The termination shall be as manufactured by G&W Electric Co. per product designation Capnut Termination. The termination shall be a (single) (three) conductor unit with shape (B) (B Detachable) (B Plate Mtd.) (C Plate Mtd.).

Electrical ratings — The termination shall be for service on a (15kV) (25kV) (34.5kV) (46kV) voltage rated, (single) (three) (three single) conductor cable system. The termination shall have a BIL rating of (11 0kV) (150kV) (200kV) (250kV). The termination shall meet all the design requirements as specified by IEEE-48, 1975 standards for Class 1 terminations.

Construction — The termination shall use high strength, wet process porcelain for external insulation. The porcelain shall be a (petticoat) (corrugated) design for use in an (indoor) (outdoor) (inverted) application. Stress relief cones and insulating compound shall be used to effectively control electrical stresses in the cable. The design shall incorporate interchangeable cable entrance fittings for system flexibility.

Accessories — Connectors shall be (copper solder) (copper compression) (bi-metallic compression) type. Entrance fittings shall be (wiping sleeve) (stuffing box) (armor) style. Aerial lugs shall be copper (solder) (clamp) (bus) type per designation (style 3D) (style 8) (style 18).

ELECTRICAL CHARACTERISTICS

Voltage (kV)	BIL (kV)	Current Rating	1 minute dry, ac (kV)	6 hour dry, ac (kV)	10 second wet, ac (kV)	15 minute dry, de (kV)
15	110	Same as cable	50	35	45	75
25	150	Same as cable	65	55	60	105
34.5	200	Same as cable	90	75	80	140
46	250	Same as cable	120	100	100	170

Single Conductor Bracket Mounted

Catalog numbers are for copper, single-conductor cable and include unassembled units with cemented porcelain and base gasket only. Required connector, entrance(s), aerial lugs, compound or stress cone kits are ordered separately. Optional connector styles, entrance fittings and ground lugs are available.

Aluminum conductor cables require compression style connectors.

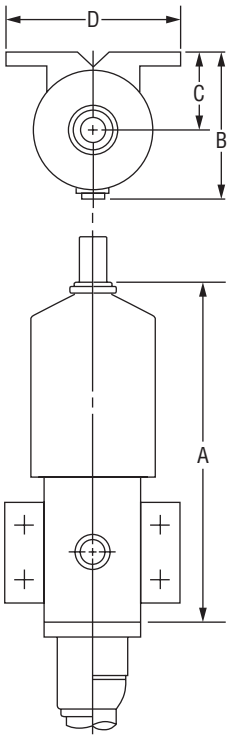
Note: For aluminum cable over 250kcmil, use the next larger size termination for correct internal clearances.

BODY INFORMATION

Symbol Number	Part Number
3E4F	B2021-4F
4F4X	B2020X
4F4J	B2020J
5G4X	B2017X
5G4J	B2017J
4H4J	B2026J

BODY CODE NUMBERING EX: 4F4X

Code	Description
4	Base size
F	Porcelain size
4	Bracket style
X (Body Material)	F—Cast iron
	X—Aluminum
	J—Bronze



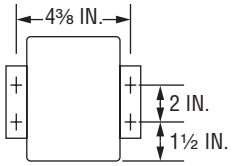


FIG 1: 4 BOLTS - ½ IN. DIA.

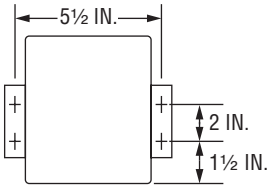


FIG 2: 4 BOLTS - ½ IN. DIA.

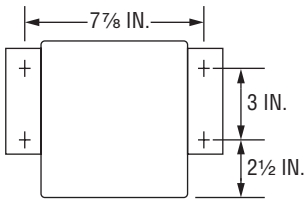


FIG 3: 4 BOLTS - ½ IN. DIA.

Max. Conduit Size		Max. Cable OD in. (mm)	Catalog Outdoor	Approx. Compound Required Gal. (L)	Approx. Shpg wt. lbs. (kg)	Hoodnut Connector Assembly	Approx. Dimensions in. (mm)					Body Porcelain Assembly*				Body†
												Outdoor		Indoor		
AWG (mm)	mm²						A	B	C	D	Fig.	Assem. No.	Porcelain	Assem. No.	Porcelain	
15kV (110kV BIL)																
1/0	53	1⅞ (48)	UT17031	⅜ (1)	24 (11)	AT20	13½ (343)	5¼ (133)	2⅝ (67)	5½ (140)	1	A6300-26	EE	A6300-25	EF	3E4F
250	127	1⅞ (48)	UT17231	⅜ (1)	25 (11)	AT22	13⅝ (346)	5¼ (133)	2⅝ (67)	5½ (140)	1	A6300-26	EE	A6300-25	EF	3E4F
500	253	2⅞ (73)	UT17541	⅝ (2)	27 (12)	AT35	13¼ (337)	7¼ (184)	3¾ (95)	6¾ (171)	2	A6300-19	FD	A6300-18	FE	4F4X
750	380	2⅞ (73)	T17741	⅝ (2)	29 (13)	AT37	13⅜ (340)	7¼ (184)	3¾ (95)	6¾ (171)	2	A6300-19	FD	A6300-18	FE	4F4X
1000	507	2⅞ (73)	T17841	⅝ (2)	34 (15)	AT38	13⅜ (340)	7¼ (184)	3¾ (95)	6¾ (171)	2	A6300-19	FD	A6300-18	FE	4F4X
1500	760	3⅜ (98)	T17951	1 (4)	46 (20)	AT49	15⅜ (391)	7⅝ (194)	3¾ (95)	6¾ (171)	2	A6300-9	GA	A6300-8	GB	5G4X
2000	1013	3⅜ (98)	T17X51	1 (4)	51 (23)	AT4X	15⅜ (391)	7⅝ (194)	3¾ (95)	6¾ (171)	2	A6300-9	GA	A6300-8	GB	5G4X
25kV (150kV BIL)																
1/0	53	1⅞ (48)	UT18031	½ (2)	28 (13)	AT20	16⅛ (410)	5¼ (133)	2⅝ (67)	5½ (140)	1	A6300-28	EK	A6300-27	EL	3E4F
250	127	2⅞ (73)	UT18241	⅝ (2)	31 (14)	AT32	16¼ (413)	7¼ (184)	3¾ (95)	6¾ (171)	2	A6300-21	FF	A6300-20	FG	4F4X
500	253	2⅞ (73)	AT18541	⅝ (2)	31 (14)	AT35	16¼ (413)	7¼ (184)	3¾ (95)	6¾ (171)	2	A6300-21	FF	A6300-20	FG	4F4X
750	380	2⅞ (73)	T18741	⅝ (2)	45 (20)	AT37	16⅜ (416)	7¼ (184)	3¾ (95)	6¾ (171)	2	A6300-23	FF	A6300-22	FG	4F4J
1000	507	2⅞ (73)	T18841	⅝ (2)	50 (23)	AT38	16⅜ (416)	7¼ (184)	3¾ (95)	6¾ (171)	2	A6300-23	FF	A6300-22	FG	4F4J
1500	760	3⅜ (98)	T18951	1 (4)	64 (29)	AT49	17⅜ (441)	7⅝ (194)	3¾ (95)	6¾ (171)	2	A6300-11	GC	A6300-10	GD	5G4J
2000	1013	3⅜ (98)	T18X51	1 (4)	69 (31)	AT4X	17⅜ (441)	7⅝ (194)	3¾ (95)	6¾ (171)	2	A6300-11	GC	A6300-10	GD	5G4J
34.5kV (200kV BIL)																
250	127	2⅞ (73)	T19241	¾ (3)	51 (23)	AT32	21¼ (540)	7¼ (184)	3¾ (95)	6¾ (171)	2	A6300-24	FM	A6300-24	FM	4F4J
500	253	2⅞ (73)	UT19541	¾ (3)	52 (24)	AT35	21¼ (540)	7¼ (184)	3¾ (95)	6¾ (171)	2	A6300-24	FM	A6300-24	FM	4F4J
500	253	2⅞ (73)	XT19541	1½ (6)	73 (33)	AT45	22⅛ (562)	7⅞ (200)	4 (102)	6¾ (171)	3	A6300-33	HA	–	–	4H4J
46kV (250kV BIL)—Requires oil filling																
250	127	2⅞ (73)	T10241	1¾ (7)	75 (34)	AT32	28⅜ (721)	7⅞ (200)	4 (102)	9 (229)	3	A6300-72	HB	–	–	4H4J
500	253	2⅞ (73)	T10541	1¾ (7)	78 (35)	AT45	29³⁄₁₆ (741)	7⅞ (200)	4 (102)	9 (229)	3	A6300-80	HG	–	–	4H4J

* For porcelain dimensions refer to page 24.

† Base size required for selection of cable entrance fittings. Refer to body ID chart on this page. Body material subject to availability.

Single Conductor Flange Mounted

Catalog numbers are for copper, single conductor cable and include unassembled units with cemented porcelain and base gasket only. Required connector, entrance(s), aerial lugs, compound or stress cone kits are ordered separately. Optional connector styles, entrance fittings and ground lugs are available.

Aluminum conductor cables require compression style connectors.

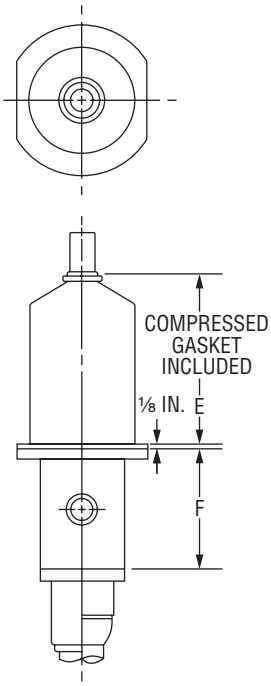
Note: For aluminum cable over 250kcmil, use the next larger size termination for correct internal clearances.

BODY INFORMATION

Symbol Number	Part Number
4E5MF	B2011F
4F6MX	B2012X
5G6MX	B2013-1X

BODY CODE NUMBERING
EX: 4E5MF

Code	Description
4	Base size
E	Porcelain size
5	Flange size
M	Flange mounting
F (Body Material)	F—Cast iron
	X—Aluminum
	J—Bronze



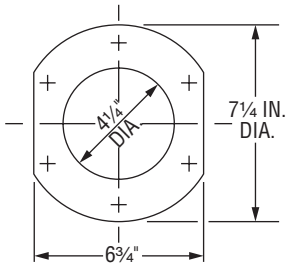


FIG. 1: SIZE 5
6 BOLTS - ½ IN. DIA. - 6⅛ IN. B.C.

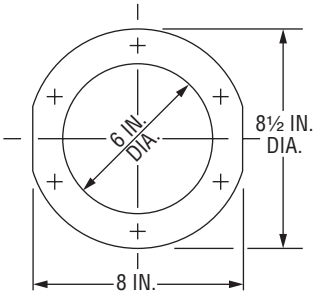


FIG. 2: SIZE 6
6 BOLTS - ½ IN. DIA. - 7¼ IN. B.C.

FOR EQUIPMENT APPLICATIONS

Max. Conduit Size		Max. Cable OD In. (mm)	Catalog Outdoor	Approx. Compound Required Gal. (L)	Approx. Shpg Wt. lbs. (kg)	Hoodnut Connector Assembly	Approx. Dimensions in. (mm)			Body Porcelain Assembly*			Body†
AWG (mm)	mm²						E	F	Fig.	Assem. No.	Porcelain	Flange Gasket Part #	
15kV (110kV BIL)													
1/0	53	2⅞ (73)	UTR17045	⅜ (1)	26 (12)	AT20	8 (203)	5½ (140)	1	A6301-9	EF	A1093-5	4E5MF
250	127	2⅞ (73)	UTR17245	⅜ (1)	27 (12)	AT22	8⅛ (206)	5½ (140)	1	A6301-9	EF	A1093-5	4E5MF
500	253	2⅞ (73)	UTR17546	⅝ (2)	27 (12)	AT35	7¾ (197)	5½ (140)	2	A6301-15	FE	A1602-3B	4F6MX
750	380	2⅞ (73)	TR17746	⅝ (2)	29 (13)	AT37	7⅞ (200)	5½ (140)	2	A6301-15	FE	A1602-3B	4F6MX
1000	507	2⅞ (73)	TR17846	⅝ (2)	35 (16)	AT38	7⅞ (200)	5½ (140)	2	A6301-15	FE	A1602-3B	4F6MX
1500	760	3⅞ (98)	TR17956	1 (4)	45 (20)	AT49	7⅜ (200)	6½ (165)	2	A6301-17	GB	A1602-3B	5G6MX
2000	1013	3⅞ (98)	TR17X56	1 (4)	49 (22)	AT4X	7⅞ (200)	6½ (165)	2	A6301-17	GB	A1602-3B	5G6MX
25kV (150kV BIL)													
1/0	53	2⅞ (73)	TR18045	½ (2)	31 (14)	AT20	10⅝ (270)	5½ (140)	1	A6301-10	EL	A1093-5	4E5MF
250	127	2⅞ (73)	UTR18246	⅝ (2)	31 (14)	AT32	10¾ (273)	5½ (140)	2	A6301-16	FG	A1602-3B	4F6MX
500	253	2⅞ (73)	TR18546	⅝ (2)	33 (15)	AT35	10¾ (273)	5½ (140)	2	A6301-16	FG	A1602-3B	4F6MX
750	380	2⅞ (73)	TR18746	⅝ (2)	36 (16)	AT37	10⅞ (276)	5½ (140)	2	A6301-16	FG	A1602-3B	4F6MX
1000	507	2⅞ (73)	TR18846	⅝ (2)	41 (19)	AT38	10⅞ (276)	5½ (140)	2	A6301-16	FG	A1602-3B	4F6MX
1500	760	3⅞ (98)	TR18956	1 (4)	49 (22)	AT49	10⅞ (276)	6½ (165)	2	A6301-18	GD	A1602-3B	5G6MX
2000	1013	3⅞ (98)	TR18X56	1 (4)	55 (25)	AT4X	10⅞ (276)	6½ (165)	2	A6301-18	GD	A1602-3B	5G6MX
34.5kV (200kV BIL)													
250	127	3⅞ (98)	TR19256	1¼ (5)	47 (21)	AT32	17¼ (438)	6½ (165)	2	A6301-19	GF	A1602-3B	5G6MX
500	253	3⅞ (98)	TR19556	1¼ (5)	48 (22)	AT35	17¼ (438)	6½ (165)	2	A6301-19	GF	A1602-3B	5G6MX

* For porcelain dimensions refer to page 24.

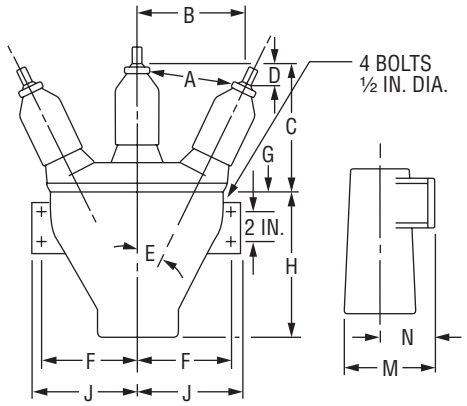
† Base size required for selection of cable entrance fittings. Refer to body ID chart on this page. Body material subject to availability.

Three Conductor Shape B

Catalog numbers are for copper, three conductor cable and include unassembled units with cemented porcelain and base gasket only. Required connector, entrance(s), aerial lugs, compound or stress cone kits are ordered separately. Optional connector styles, entrance fittings and ground lugs are available.

Aluminum conductor cables require compression style connectors.

Note: For aluminum cable over 250kcmil, use the next larger size termination for correct internal clearances.



Body Code	E Degrees	Approx. Dimensions in. (mm)					
		F	G	H	J	M	N
J4C	30	7¾ (197)	1½ (38)	10 (245)	8½ (216)	7 (179)	3¾ (95)
J5C	30	7¾ (197)	1½ (38)	11½ (292)	8½ (216)	7 (179)	3¾ (95)
K5C	26	10½ (267)	2 (51)	15 (381)	11¼ (286)	7⅜ (187)	3¾ (95)
L5C	30	10½ (267)	3 (76)	16 (406)	11¼ (286)	8⅛ (208)	4¼ (108)

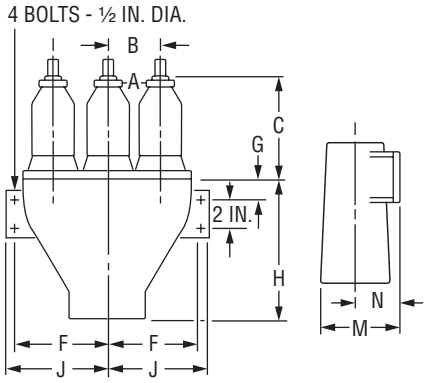
Max Cond. Size		Max. Cable OD in. (mm)	Catalog No. Outdoor	Approx. Compound Required Gal. (L)	Approx. Shpg. Wt. lbs. (kg)	Hoodnut Conn. Assem.	Approx. Dimensions in. (mm)				Lid Assembly					Body
											Outdoor		Indoor			
AWG KCM	mm²						A	B	C	D	Assem. No.	Porcelain	Assem. No.	Porcelain	Lid	
15kV (110kV BIL)																
1/0	53	2⅞ (73)	JT3704B	3 (11)	90 (41)	AT20	7¾ (197)	9¾ (248)	11¾ (298)	2⅛ (108)	A6304-13	EE	A6304-14	EF	EJ3B-2	J4C
250	127	3⅞ (98)	UT3725B	3½ (13)	100 (45)	AT22	7¾ (197)	9¾ (248)	11¾ (298)	2⅛ (108)	A6304-13	EE	A6304-14	EF	EJ3B-2	J5C
500	253	3⅞ (98)	JT3755B	3½ (13)	95 (43)	AT25	7¾ (197)	9⅞ (251)	11⅞ (302)	2⅛ (108)	A6304-17	EE	A6304-18	EF	EJ3B-2X	J5C
750	380	3⅞ (98)	JT3775B	3½ (13)	105 (48)	AT37	7⅜ (200)	9⅞ (251)	11⅞ (302)	2⅛ (108)	A6304-19	EG	A6304-20	EH	EJ3B-2X	J5C
1000	507	3⅞ (98)	JT3785B	3½ (13)	112 (51)	AT38	7⅜ (200)	9⅞ (251)	12 (305)	2⅛ (108)	A6304-19	EG	A6304-20	EH	EJ3B-2X	J5C
25kV (150kV BIL)																
1/0	53	3⅞ (98)	T3805B	5½ (21)	157 (71)	AT20	11⅝ (295)	13⅝ (346)	16⅛ (410)	2⅞ (73)	A6304-24	EK	A6304-23	EL	EK3B-1	K5C
250	127	3⅞ (98)	T3825B	5½ (21)	160 (73)	AT22	11⅝ (295)	13⅝ (346)	16¼ (410)	2⅞ (73)	A6304-24	EK	A6304-23	EL	EK3B-1	K5C
500	253	3⅞ (98)	T3855B	5½ (21)	150 (68)	AT25	11⅝ (295)	13⅝ (346)	16¼ (410)	2⅞ (73)	A6304-30	EK	A6304-29	EL	EK3B-1X	K5C
34.5kV (150kV BIL)																
250	127	3⅞ (98)	T3925B	8 (30)	180 (82)	AT32	13¾ (349)	16 (406)	20⅞ (530)	3½ (89)	A6304-31	FM	A6304-31	FM	FL3B	L5C
500	253	3⅞ (98)	T3955B	8 (30)	170 (77)	AT35	13¾ (349)	16⅛ (410)	20⅞ (530)	3½ (89)	A6304-32	FM	A6304-32	FM	FL3BX	L5C

Three Conductor Shape C

Catalog numbers are for copper, three-conductor cable and include unassembled units with cemented porcelain and base gasket only. Required connector, entrance(s), aerial lugs, compound or stress cone kits are ordered separately. Optional connector styles, entrance fittings and ground lugs are available.

Aluminum conductor cables require compression style connectors.

Note: For aluminum cable over 250kcmil, use the next larger size termination for correct internal clearances.



Body Code	E Degrees	Approx. Dimensions in. (mm)					
		F	G	H	J	M	N
J5C	31	7¾ (197)	1½ (38)	11½ (254)	8½ (216)	7 (179)	3¾ (95)
K5C	26	10½ (267)	2 (51)	15 (381)	11¼ (286)	7⅜ (187)	3¾ (95)

Max Cond. Size		Max. Cable OD in. (mm)	Catalog No. Outdoor	Approx. Compound Required Gal. (L)	Approx. Shpg. Wt. lbs. (kg)	Hoodnut Conn. Assembly	Approx. Dimensions in. (mm)			Lid Assembly					Body
AWG KCM	mm²						A	B	C	Outdoor		Indoor		Lid	
										Assem. No.	Porcelain	Assem. No.	Porcelain		
15kV (110kV BIL)															
1/0	53	3⅞ (98)	T3705C	5 (19)	131 (59)	AT20	5½ (140)	7⅝ (194)	10 (245)	A6305-12	EE	A6305-13	EF	EK3C	K5C
250	127	3⅞ (98)	T3725C	5 (19)	134 (61)	AT22	5½ (140)	7⅝ (194)	10⅛ (257)	A6305-12	EE	A6305-13	EF	EK3C	K5C
500	253	3⅞ (98)	T3755C	5 (19)	126 (57)	AT25	5½ (140)	7⅝ (194)	10⅛ (257)	A6305-16	EE	A6305-17	EF	EK3CX	K5C
750	380	3⅞ (98)	T3775C	5 (19)	136 (62)	AT37	5⅛ (130)	7⅝ (194)	10¼ (260)	A6305-18	EG	A6305-19	EH	EK3CX	K5C
1000	507	3⅞ (98)	T3785C	5 (19)	143 (65)	AT38	5⅛ (130)	7⅝ (194)	10¼ (260)	A6305-18	EG	A6305-19	EH	EK3CX	K5C

Three Conductor Shape B — Detachable

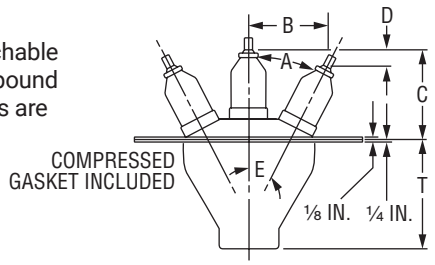
Catalog numbers are for copper, three-conductor cable and include unassembled units with detachable porcelain and base gasket only. Required connector, entrance(s), aerial lugs, compound or stress cone kits are ordered separately. Optional connector styles, entrance fittings and ground lugs are available.

Aluminum conductor cables require compression style connectors.

Note: For aluminum cable over 250kcmil, use the next larger size termination for correct internal clearances.

Max Cond. Size		Max. Cable OD in. (mm)	Catalog No. Outdoor	Approx. Compound Required Gal. (L)	Approx. Shpg. Wt. lbs. (kg)	Hoodnut Conn. Assem.	Approx. Dimensions in. (mm)				Lid Assembly					Body
AWG KCM	mm²						A	B	C	D	Outdoor		Indoor		Lid	
											Assem. No.	Porcelain	Assem. No.	Porcelain		
15kV (110kV BIL)																
250	127	3⅞ (98)	UTA3725B	3½ (13)	95 (43)	AT32	8¾ (222)	11⅛ (283)	14⅜ (365)	2¾ (70)	A6311-13	EAG	A6311-22	EAH	EJ3BA	J5C
500	253	3⅞ (98)	JTA3755B	3½ (13)	108 (49)	AT35	8¾ (222)	11⅛ (283)	14½ (368)	2¾ (70)	A6311-11	EAG	A6311-12	EAH	EJ3BAX	J5C
750	380	3⅞ (98)	JTA3775B	3½ (13)	112 (51)	AT37	8¾ (222)	11¼ (286)	14½ (368)	2¾ (70)	A6311-11	EAG	A6311-12	EAH	EJ3BAX	J5C
1000	507	3⅞ (98)	JTA3785B	3½ (13)	120 (54)	AT38	8¾ (222)	11¼ (286)	14⅝ (371)	2¾ (70)	A6311-11	EAG	A6311-12	EAH	EJ3BAX	J5C
25kV (150kV BIL)																
1/0	53	3⅞ (98)	TA3805B	5½ (21)	170 (77)	AT20	11⅞ (302)	14⅛ (359)	17⅜ (441)	3 (76)	A6311-15	EAK	A6311-17	EAL	EK3BA	K5C
250	127	3⅞ (98)	TA3825B	5½ (21)	172 (78)	AT22	11⅞ (302)	14⅛ (359)	17⅜ (441)	3 (76)	A6311-15	EAK	A6311-17	EAL	EK3BA	K5C
500	253	3⅞ (98)	TA3855B	5½ (21)	155 (70)	AT25	11⅞ (302)	14¼ (362)	17½ (445)	3 (76)	A6311-19	EAK	A6311-21	EAL	EK3BAX	K5C

Three Conductor Plate Mounted, Type TRA Shape B



Catalog numbers are for copper, three-conductor cable and include unassembled units with detachable porcelain and base gasket only. Required connector, entrance(s), stress cone kits, insulating compound and aerial lugs are ordered separately. Optional connector styles, entrance fittings and ground lugs are available.

Aluminum conductor cables require compression style connectors.

Note: For aluminum cable over 250kcmil, use the next larger size termination for correct internal clearances. Terminations are for indoor mounting in air and/or ventilated compartments.

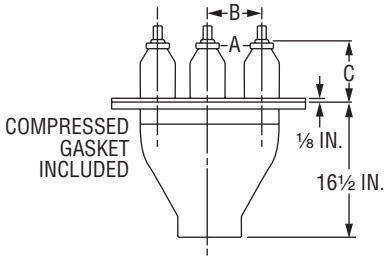
Max Cond. Size		Max. Cable OD in. (mm)	Catalog No. Outdoor	Approx. Compound Required Gal. (L)	Approx. Shpg. Wt. lbs. (kg)	Hoodnut Conn. Assem.	Mftg. Plate Symbol	Approx. Dimensions in. (mm)						Lid Assembly			Body
														Outdoor		Lid	
AWG KCM	mm^2							A	B	C	D	E Degree	T	Assem. No.	Porcelain		
15kV (110kV BIL)																	
250	127	3⅞ (98)	UTRA3725B	3½ (13)	107 (49)	AT32	JB-2	8¾ (222)	11⅛ (283)	14⅜ (365)	2¾ (70)	31	11⅞ (302)	A6311-22	EAH	EJ3BA	J5C-1
500	253	3⅞ (98)	TRA3755B	3½ (13)	115 (52)	AT35	JB-2	8¾ (222)	11⅛ (283)	14½ (368)	2¾ (70)	31	11⅞ (302)	A6311-12	EAH	EJ3BAX	J5C-1
25kV (150kV BIL)																	
1/0	53	3⅞ (98)	TRA3805B	5½ (21)	157 (71)	AT20	KB-2	11⅞ (302)	14⅛ (359)	17⅜ (441)	3 (76)	26	15⅜ (391)	A6311-17	EAL	EK3BA	K5C-1
250	127	3⅞ (98)	TRA3825B	5½ (21)	160 (73)	AT22	KB-2	11⅞ (302)	14⅛ (359)	17⅜ (441)	3 (76)	26	15⅜ (391)	A6311-17	EAL	EK3BA	K5C-1
500	253	3⅞ (98)	TRA3855B	5½ (21)	154 (70)	AT25	KB-2	11⅞ (302)	14¼ (362)	17½ (445)	3 (76)	26	15⅜ (391)	A6311-21	EAL	EK3BAX	K5C-1

Three Conductor Plate Mounted, Type TRA Shape C

Catalog numbers are for copper, three-conductor cable and include unassembled units with detachable porcelain and base gasket only. Required connector, entrance(s), stress cone kits, insulating compound and aerial lugs are ordered separately. Optional connector styles, entrance fittings and ground lugs are available.

Aluminum conductor cables require compression style connectors.

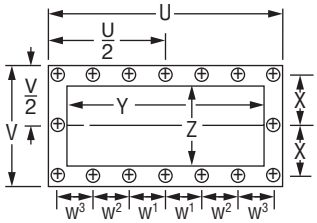
Note: For aluminum cable over 250kcmil, use the next larger size termination for correct internal clearances. Terminations are for indoor mounting in air and/or ventilated compartments.



Max Cond. Size		Max. Cable OD in. (mm)	Catalog No. Outdoor	Approximate Compound Required Gal. (L)	Approx. Shpg. Wt. lbs. (kg)	Hoodnut Conn. Assem.	Mfg. Plate Symbol	Approx. Dimensions in. (mm)				Lid Assembly			Body
												Outdoor		Lid	
AWG KCM	mm²							A	B	C	T	Assem. No.	Porcelain		
15kV (110kV BIL)															
250	127	3⅞ (98)	TRA3725C	5 (19)	170 (77)	AT32	4	5⅛ (130)	7⅝ (194)	9⅞ (251)	16½	A6312-13	EAH	EK3CA	K5C-2
500	253	3⅞ (98)	TRA3755C	5 (19)	178 (81)	AT35	4	5⅛ (130)	7⅝ (194)	10 (254)	16½	A6312-11	EAH	EK3CAX	K5C-2
25kV (150kV BIL)															
1/0	53	3⅞ (98)	TRA3805C	5 (19)	178 (81)	AT20	4	5½ (140)	7⅝ (194)	12⅝ (321)	16½	A6312-14	EAL	EK3CA	K5C-2
250	127	3⅞ (98)	TRA3825C	5 (19)	180 (82)	AT22	4	5½ (140)	7⅝ (194)	12⅝ (321)	16½	A6312-14	EAL	EK3CA	K5C-2
500	253	3⅞ (98)	TRA3855C	5 (19)	158 (72)	AT25	4	5½ (140)	7⅝ (194)	12⅝ (321)	16½	A6312-12	EAL	EK3CAX	K5C-2

TYPE TRA FOR EQUIPMENT APPLICATIONS

Terminations are for indoor mounting in air or with porcelains completely immersed in oil. For mounting in air all live parts (hoodnut and aerial lugs) should be taped, using tape kit A50801267000.



ALL HOLES ARE FOR ½ IN. DIA. BOLTS.

Y AND Z ARE MINIMUM COMPARTMENT OPENINGS.

Mfg. Plate Symbol	No. Bolt Holes	Mfg. Plate Gasket	Approx. Dimensions in. (mm)						
			U	V	W1	W2/W3	X	Y	Z
JB-2	16	B1463-57	29¼ (749)	10 (254)	4⅝ (117)	4⅝ (117)	4¼ (108)	26½ (673)	7¼ (184)
KB-2	16	B1463-90	35¼ (895)	10½ (267)	5⅝ (143)	5⅝ (143)	4½ (114)	32¼ (819)	7½ (190)
4	16	B1627-16	25½ (648)	8¼ (210)	4 (102)	4⅛ (105)	3½ (89)	22¾ (578)	5½ (140)

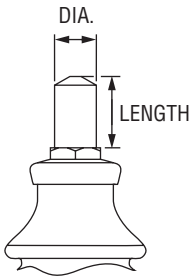
Base size is the second digit in the body code number. Base size is required for selection of cable entrance fittings. Body material is cast aluminum. Cast iron or bronze is optional subject to availability.

Connectors

Connectors and hoodnuts are made from high-grade copper alloy and have a cross sectional area large enough to carry the rated current of the conductor without excessive heating. Locking fins on the connector engage slots in the porcelain to prevent rotation of the connector on the cable when installing the hoodnut. Connector ears rest on the inner shoulder of the porcelain and prevent the fins from becoming wedged in the slots.

Thinwall hoodnuts ensure maximum current capacity by pressure contact on connector threads when clamped with an aerial lug.

Solder type connectors are standard for copper cable. Compression type internal connectors may be furnished for terminating either copper or aluminum conductors.



Standard Hoodnut

Connector Size AWG (kcm)			Connector Hoodnut Assembly	Hoodnut Dimensions in. (mm)		Gasket Part #	Approx. Shpg. Wt. lbs. (kg)
Min.	Max.	Max (mm^2)		Diameter	Length		
Solder (Copper)							
4	1/0	53	AT10	.68 (17)	7/8 (22)	A1647	1 (.45)
4	1/0	53	AT20	.68 (17)	7/8 (22)	A1625-2	1 (.45)
1/0	250	127	AT12	.80 (20)	1 3/16 (30)	A1647	1 1/2 (.68)
1/0	250	127	AT22	.80 (20)	1 3/16 (30)	A1625-2	1 1/2 (.68)
1/0	250	127	AT32	.80 (20)	1 3/16 (30)	A1626	1 1/2 (.68)
250	500	253	AT25	1.05 (27)	1 5/8 (41)	A1625-2	2 1/2 (1.14)
250	500	253	AT35	1.05 (27)	1 5/8 (41)	A1626	2 1/2 (1.14)
250	500	253	AT45	1.05 (27)	1 1/2 (38)	A1835	2 1/2 (1.14)
500	750	380	AT37	1.24 (31)	1 15/16 (49)	A1626	3 1/2 (1.59)
500	750	380	AT47	1.24 (31)	1 7/8 (48)	A1835	3 1/2 (1.59)
750	1000	507	AT38	1.37 (35)	2 1/2 (64)	A1626	4 1/2 (2.04)
750	1000	507	AT48	1.37 (35)	2 1/2 (64)	A1835	4 1/2 (2.04)
1000	1500	760	AT49	1.74 (44)	2 3/4 (70)	A1835	8 (3.63)
1500	2000	1013	AT4X	1.93 (49)	2 1/2 (64)	A1835	11 (4.99)
Compression (Copper)							
4	1/0	53	AT10H	.68 (17)	7/8 (22)	A1647	1 (.45)
4	250	127	AT12H	.80 (20)	1 3/16 (30)	A1647	1 1/2 (.68)
4	1/0	53	AT20H	.68 (17)	7/8 (22)	A1625-2	1 (.45)
4	250	127	AT22H	.80 (20)	1 3/16 (30)	A1625-2	1 1/2 (.68)
4	500	253	AT25H	1.05 (27)	1 5/8 (41)	A1625-2	2 1/2 (1.14)
4	250	127	AT32H	.80 (20)	1 3/16 (30)	A1626	1 1/2 (.68)
4	500	253	AT35H	1.05 (27)	1 5/8 (41)	A1626	2 1/2 (1.14)
4/0	750	380	AT37H	1.24 (31)	1 15/16 (49)	A1626	3 1/2 (1.59)
300	1000	507	AT38H	1.37 (35)	2 1/2 (64)	A1626	4 1/2 (2.04)
4	500	253	AT45H	1.05 (27)	1 1/2 (38)	A1835	2 1/2 (1.14)
4/0	750	380	AT47H	1.24 (31)	1 7/8 (48)	A1835	3 1/2 (1.59)
300	1000	507	AT48H	1.37 (35)	2 1/2 (64)	A1835	4 1/2 (2.04)
500	1500	760	AT49H	1.74 (44)	2 3/4 (70)	A1835	8 (3.63)
500	2000	1013	AT4XH	1.93 (49)	2 1/2 (64)	A1835	11 (4.99)

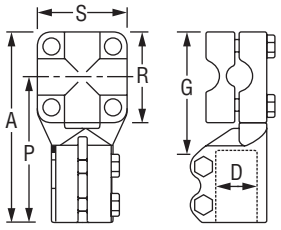
Connectors

Connector Size AWG (kcm)			Connector Hoodnut Assembly	Hoodnut Dimensions in. (mm)		Gasket Part #	Approx. Shpg. Wt. lbs. (kg)
Min.	Max.	Max (mm^2)		Diameter	Length		
Compression (Aluminum)							
4	1/0	53	AT10A	.68 (17)	7/8 (22)	A1647	1 (.45)
4	250	127	AT12A	.80 (20)	1 3/16 (30)	A1647	1 1/2 (.68)
4	1/0	53	AT20A	.68 (17)	7/8 (22)	A1625-2	1 (.45)
4	250	127	AT22A	.80 (20)	1 3/16 (30)	A1625-2	1 1/2 (.68)
4	500	253	AT25A	1.05 (27)	1 5/8 (41)	A1625-2	2 1/2 (1.14)
4	250	127	AT32A	.80 (20)	1 3/16 (30)	A1626	1 1/2 (.68)
4	500	253	AT35A	1.05 (27)	1 5/8 (41)	A1626	2 1/2 (1.14)
4	750	380	AT37A	1.24 (31)	1 15/16 (49)	A1626	3 1/2 (1.59)
300	1000	507	AT38A	1.37 (35)	2 1/2 (64)	A1626	4 1/2 (2.04)
4	500	253	AT45A	1.05 (27)	1 1/2 (38)	A1835	2 1/2 (1.14)
4	750	380	AT47A	1.24 (31)	1 7/8 (48)	A1835	3 1/2 (1.59)
300	1000	507	AT48A	1.37 (35)	2 1/2 (64)	A1835	4 1/2 (2.04)
500	1500	760	AT49A	1.74 (44)	2 3/4 (70)	A1835	8 (3.63)
500	2000	1013	AT4XA	1.93 (49)	2 1/2 (64)	A1835	11 (4.99)

Aerial Lugs

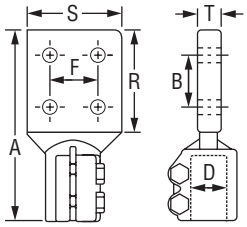
STYLE 3-D. ADJUSTABLE CLAMP TYPE, HORIZONTAL OR VERTICAL TAKE-OFF

Max. Cond. Size		D Hoodnut Diam.	Part Number	Approximate Dimensions in. (mm)					Standard Clamping Range	Approx. Shpg. Wt. lbs. (kg)
AWG/ KCM	mm^2			G	A	P	R	S		
1/0	53	0.684"	3D10	1 7/8 (48)	2 3/4 (70)	2 1/16 (52)	1 3/8 (35)	1 3/8 (35)	#4AWG to #2/0AWG	1 1/4 (.57)
250	127	0.809"	3D21	2 (51)	3 1/4 (83)	2 1/2 (64)	1 1/2 (38)	1 1/2 (38)	#8AWG to 250KCM	1 1/2 (.68)
500	253	1.057"	3D55	2 11/16 (68)	4 3/8 (111)	3 5/16 (84)	2 1/8 (54)	2 1/8 (54)	#2AWG to 500KCM	2 1/2 (1.1)
750	380	1.245"	3D75	2 13/16 (71)	4 3/4 (121)	3 5/8 (92)	2 1/4 (57)	2 1/4 (57)	#2AWG to 500KCM	4 1/4 (1.9)
750	380	1.245"	3D77	2 13/16 (71)	4 3/4 (121)	3 5/8 (92)	2 1/4 (57)	2 1/4 (57)	250KCM to 750KCM	4 1/2 (2.0)
1000	507	1.370"	3D88	3 1/2 (90)	5 3/4 (146)	4 3/8 (111)	2 3/4 (70)	2 3/4 (70)	600KCM to 1000KCM	7 (3.2)



STYLE 8. BUS TYPE, VERTICAL SURFACE

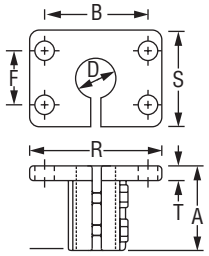
Max. Cond. Size		D Hoodnut Diam.	Part Number	No. and Size of Holes in Pad	Approximate Dimensions in. (mm)						Approx. Shpg Wt lbs. (kg)
AWG/ KCM	mm^2				B	F	R	S	T	A	
1/0	53	0.684"	A478-5	(1) 9/16"	–	–	1 1/2 (38)	1 (25)	1/2 (13)	2 7/8 (73)	1 (.45)
250	127	0.809"	A479-32	(1) 9/16"	–	–	1 1/2 (38)	1 1/2 (38)	1/2 (13)	3 1/4 (83)	1 3/4 (.79)
500	253	1.057"	A480-23	(2) 9/16"	1 3/4 (45)	–	3 (76)	2 (51)	5/8 (16)	5 5/16 (135)	2 1/2 (1.1)
750	380	1.245"	A481-23	(4) 9/16"	1 3/4 (45)	1 3/4 (45)	3 (76)	3 (76)	5/8 (16)	5 9/16 (141)	4 (1.8)
1000	507	1.370"	A482-23	(4) 9/16"	1 3/4 (45)	1 3/4 (45)	3 (76)	3 (76)	5/8 (16)	6 (152)	4 1/2 (2.0)
1500	760	1.745"	A483-11	(4) 9/16"	1 3/4 (45)	1 3/4 (45)	4 (102)	3 (76)	3/4 (19)	7 5/8 (194)	7 (3.2)
2000	1013	1.932"	A484-8	(4) 9/16"	1 3/4 (45)	1 3/4 (45)	4 (102)	4 (102)	3/4 (19)	7 1/2 (191)	12 (5.5)



Aerial Lugs

STYLE 18. BUS TYPE, HORIZONTAL SURFACE

Max. Cond. Size		D Hoodnut Diam.	Part Number	No. and Size of Holes in Pad	Approximate Dimensions in. (mm)						Approx. Shpg Wt lbs. (kg)
AWG/ KCM	mm^2				B	F	R	S	T	A	
1/0	53	0.684"	A521	(1) 5/16"	–	*	1 1/16 (25)	2 5/16 (59)	1/4 (6)	1 (25)	3/4 (.34)
250	127	0.809"	A522	(2) 5/16"	1 7/8 (48)	–	2 1/2 (64)	1 1/2 (38)	1/4 (6)	1 5/16 (33)	1 (.45)
500	253	1.057"	A523	(2) 7/16"	2 1/2 (64)	–	3 1/4 (83)	3 (76)	5/16 (8)	2 (51)	1 3/4 (.79)
750	380	1.245"	A524	(4) 9/16"	3 1/8 (79)	1 1/2 (38)	4 (102)	3 (76)	3/8 (10)	2 3/8 (60)	2 1/2 (1.1)
1000	507	1.370"	A525	(4) 9/16"	3 1/8 (79)	1 1/2 (38)	4 (102)	3 (76)	3/8 (10)	2 11/16 (68)	3 1/2 (1.6)
1500	760	1.745"	A526	(4) 9/16"	3 1/8 (79)	1 1/2 (38)	4 (102)	3 (76)	1/2 (13)	3 1/2 (89)	5 (2.3)
2000	1013	1.932"	A527	(4) 9/16"	3 3/4 (95)	1 1/2 (38)	5 (127)	3 (76)	3/8 (10)	2 5/8 (67)	5 (2.3)



** 1" Spacing between centerline of drilled hole and centerline of hoodnut.*

Entrance Housings

ENTRANCE FITTING APPLICATION CHART

Entrance Fitting	Cable Type					
	PILC VCLC RILC	EPR XLPE	Flat Steel Armored	Interlocked* Armor	Wire Armor	Type CCE Split Conduit Extension Adaptable
WS- Wiping Sleeve	1 or 3 conductor					
WSV-CC- Inverted Wiping Sleeve & Conduit Coupling	3 conductor					✓
WSV-AC- Inverted Wiping Sleeve & Armor Clamp	–		3 conductor			✓
WSC-WAF- Inverted Wiping Sleeve & Wire Armor Fitting	–				3 conductor	✓
RS- Stuffing Box	1 or 3 conductor	1 or 3 conductor				
RSF-CC- Stuffing Box & Conduit Coupling	3 conductor	3 conductor				✓
RSF-AC- Stuffing Box & Armor Clamp			3 conductor			✓
RSF-WAF- Stuffing Box & Wire Armor Fitting					3 conductor	✓
RSA- Stuffing Box and Wire Clamp					3 conductor	
DP- Double Plate Compression Fitting	3 single conductors	3 single conductors				
DP-CC- DP Fitting & Conduit Coupling	3 single conductors	3 single conductors				✓
DP-EE-AC- DP Fitting Entrance Extension & Armor Clamp			1 or 3 conductors			✓
DP-EE-WAF- DP Entrance Extension & Wire Armor Fitting					1 or 3 conductors	✓

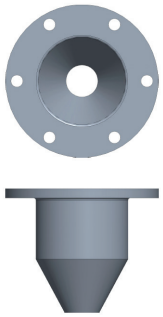
* Application on cables with a solid jacket under the armor. For cables with a jacket over the armor, a cable entrance fitting combination (DP3-EE-EE-GL-ACC-DP-1) can be used.

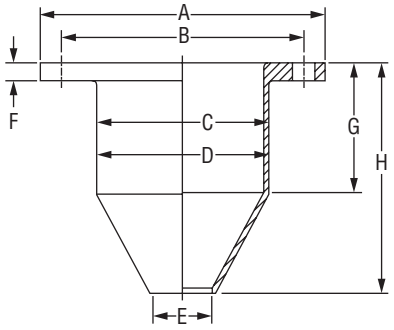
WS

WIPING SLEEVE

Dimensions inches	Base Size			
	3	4	5	6
A	3 7/16	5 9/16	7 3/16	8 1/2
B	2 5/8	4 3/4	6 1/8	7 1/4
C	2 9/16	3 3/4	4 5/16	5 3/4
D	2 5/16	3 7/16	4 1/16	5 1/2
E	5/8	1	1 1/2	2
F	7/16	7/16	7/16	1/2
G	2 3/8	2 9/16	3 5/16	3 3/8
H	3 7/8	4 11/16	5 13/16	6
Mounting Holes	(4) 3/8	(6) 7/16	(6) 9/16	(6) 9/16
Catalog No.	WS31	WS41	WS51	WS61
Max. OD Cable	2 1/4	3 3/8	4	5 1/4
Shpg. Wgt.— lbs	2 3/4	5	8 1/4	12

Wiping sleeves are cast bronze. The conical end is sawed off to fit the cable on the job. Wiping sleeves are furnished untinned. (Add suffix G1 to WS catalog number for tinning.)



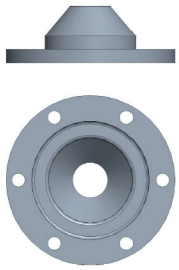


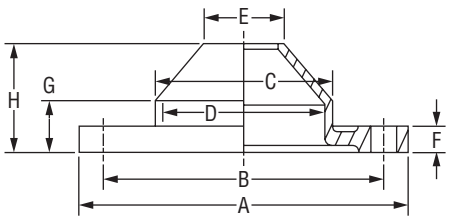
WSV

INVERTED WIPING SLEEVE

Dimensions inches	Base Size			
	3	4	5	6
A	3 7/16	5 9/16	7 3/16	X
B	2 5/8	4 3/4	6 1/8	X
C	1 7/8	2 7/8	3 7/8	X
D	1 5/8	2 9/16	3 9/16	X
E	23/32	1	1 1/2	X
F	3/8	7/16	7/16	X
G	1	1	1	X
H	1 5/8	1 7/8	2 1/4	X
Mounting Holes	(4) 3/8	(6) 7/16	(6) 9/16	X
Catalog No.	WSV31	WSV41	WSV51	X
Max. OD Cable	1 3/8	2 5/16	3 5/16	X
Shpg. Wgt.— lbs	2	4	6	X

Inverted wiping sleeves are cast bronze and normally furnished uncut and untinned unless otherwise indicated when ordered. Add suffix G1 to WSV to catalog number for tinning.



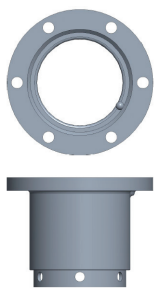


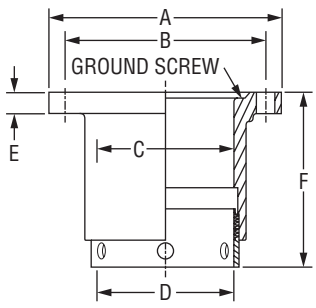
RS

STUFFING BOX

Dimensions inches	Base Size			
	3	4	5	6
A	3 1/2	5 1/2	7 1/4	8 7/16
B	2 5/8	4 3/4	6 1/8	7 1/4
C	2 3/16	3 3/16	4 1/2	5 1/2
D	2	3	4	5
E	3/8	7/16	7/16	7/16
F	4 1/8	4 1/8	4 1/8	4 7/8
Mounting Holes	(4) 3/8	(6) 7/16	(6) 9/16	(6) 9/16
Catalog No.	RS33	RS44	RS55	RS66
Max. OD Cable	1 7/8	2 7/8	3 7/8	4 7/8
Shpg. Wgt.— lbs	3	4	6	7

Stuffing box fittings are cast aluminum with an aluminum gland nut, two aluminum washers and four resistoyl gaskets. They may be furnished in bronze if desired. The RS fitting is furnished with one hole factory drilled for one single conductor or one multiple conductor cable. (Please specify the cable diameter). (Add G1 to RS catalog number for bronze fitting.



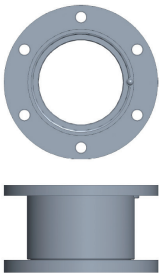


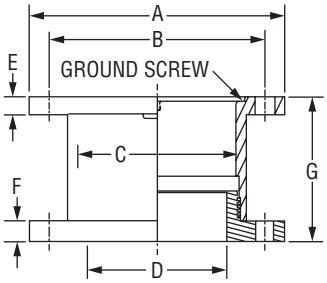
RSF

FLANGED STUFFING BOX

Dimensions inches	Base Size		
	3	4	5
A	3½	5½	7¼
B	2⅝	4¾	6⅛
C	2 3/16	3 3/16	4½
D	2	3	4
E	⅜	7/16	7/16
F	⅜	7/16	½
G	4¼	4⅜	4 7/16
Mounting Holes	(4) ⅜	(6) 7/16	(6) 9/16
Catalog No.	RSF33	RSF44	RFS55
Max. OD Cable	1⅞	2⅞	3⅞
Shpg. Wgt.— lbs	4	5	7

Stuffing box fittings are cast aluminum with cast iron flanged washers and four resistoyl gaskets. (Aluminum flanged gland nut is furnished when used with single conductor cables 500 KCM and larger, or when specified on order.) Available also in bronze. (Add suffix G1 to catalog number.) Material subject to availability. Furnished with one hole factory drilled for one single or one multiple conductor cable. (Specify cable diameter on order.)

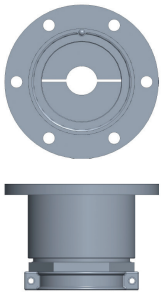


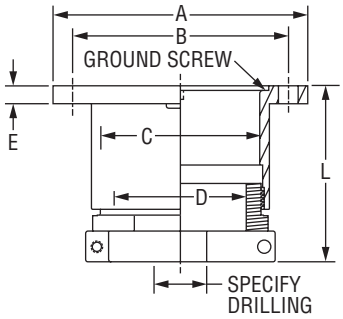


RSA STUFFING BOX AND ARMORED CLAMP

Dimensions inches	Base Size		
	3	4	5
A	3½	5½	7¼
B	2⅝	4¾	6⅛
C	3 3/16	3 3/16	4½
D	2	3	3¾
E	⅜	7/16	7/16
L	5¼	5¼	5¼
Mounting Holes	(4) ⅜	(6) 7/16	(6) 9/16
Catalog No.	RSA33	RSA44	RFA55
Max. OD over Armor	1⅞	2⅞	3⅞
Max. OD over Jacket	1¾	2¾	3½
Shpg. Wgt.— lbs	3	4	6

Stuffing box fittings are cast aluminum with aluminum combination armor clamp, gland nut, two aluminum washers and four resistoyl gaskets. Furnished with one hole in washers, and sealing gaskets factory drilled to diameter of cable jacket or sheath, and one hole in armor clamp factory drilled to diameter of interlocked armor. (Specify cable diameters over interlocked armor and over the impervious jacket under the armor when ordering. Available in bronze, if desired. (Add suffix G1 to RSA catalog number for bronze fitting).

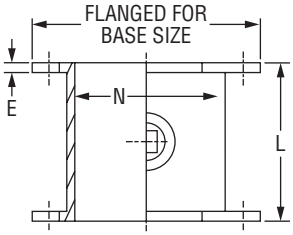




EE ENTRANCE EXTENSION

Base Size	Catalog Number	Part Number	Dimensions in.			Shpg.Wt. lbs.
			E	N	L	
3	EE3	A3274-15	⅜	2¾	4	5
4	EE4	A3274-5	¼	3½	4	6
5	EE5	A3274-9	5/16	4½	5	11
6	EE6	A3274-16	5/16	5½	5	15

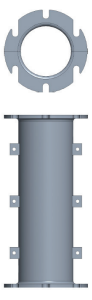
Entrance extensions are cast iron and are flanged on each end to accept entrance fittings of the same base size. Available also in bronze (add suffix "G1" to catalog number) or aluminum (add suffix "G2" to catalog number) if desired. Material subject to availability.

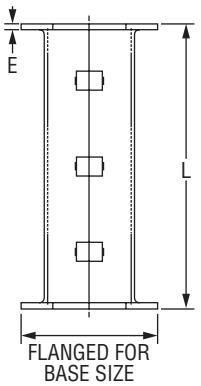


CCE SPLIT CONDUIT EXTENSION

Base Size	Catalog Number	Part # (one half)	Dimensions in.			Shpg. Wt. lbs.
			D	E	L	
3	CC3E-10F	B310-5	2 9/16	5/16	10	9
4	CC4E-10F	B310	3⅜	5/16	10	12
4	CC4E-15F	B310-10	3⅜	5/16	15	16
5	CC5E-10F	B310-1	4⅜	5/16	10	18
5	CC5E-15F	B310-11	4⅜	5/16	15	24
6	CC6E-10F	B310-28	5¾	5/16	10	20
6	CC6E-15F	B310-32	5¾	5/16	15	25

Split conduit extensions are cast iron and are flanged on each end to accept entrance fittings of the same base size. Material subject to availability. The two halves of the extension are joined by bolts to permit removal so that the pothead can be backed away during cable installation. Available in either 10 or 15 inch lengths. Two or more units may be used in series where longer extensions are required.



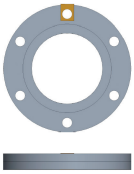


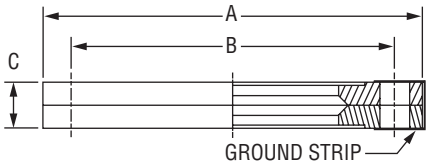
DP

DOUBLE PLATE STUFFING BOX

Base Size	No. of Holes	Maximum Drilling with "CC" Conduit Coupling											Without "CC"
		1	1¼	1½	2	2½	3	3½	4	4½	5	6	
3	1	1	15/16	1 9/16	2	2 3/8	2 7/16	2 7/16	2 7/16				2 5/8
	2	5/16	7/16	9/16	7/8	1	1	1	1				1 1/8
	3	5/16	3/8	1/2	11/16	15/16	15/16	15/16	15/16				11/32
	4	1/4	5/16	7/16	5/8	3/4	3/4	3/4	3/4				7/8
4	1			1 9/16	2	2 3/8	3	3 3/8	3 3/8	3 3/8	3 3/8		3 7/8
	2			9/16	7/8	1 1/16	1 15/16	1 1/2	1 1/2	1 1/2	1 1/2		1 3/4
	3			1/2	11/16	15/16	1 3/16	1 3/8	1 3/8	1 3/8	1 3/8		1 19/32
	4			7/16	5/8	3/4	1	1 3/16	1 3/16	1 3/16	1 3/16		1 3/8
5	1						3	3½	3 15/16	4 7/16	4½	4½	4 7/8
	2						1 5/16	1 1/2	1 13/16	2 1/16	2 1/16	2 1/16	2 1/4
	3						1 3/16	1 3/8	1 5/8	1 7/8	1 7/8	1 7/8	2 1/16
	4						1	1 3/16	1 7/16	1 5/8	1 5/8	1 5/8	1 13/16
6	1											5½	5 7/8
	2											2 9/16	2¾
	3											2 3/8	2 17/32
	4											2	2 7/32

Type "DP" plates are cast aluminum as standard for each size. Available also in bronze, if desired. (Add suffix G1 to catalog number.) Holes are factory drilled to fit cables. (Specify cable diameter on order.)





Dimensions inches	Base Size			
	3	4	5	6
A	3½	5½	7¼	8 7/16
B	2 5/8	4¾	6⅛	7¼
C	7/8	7/8	7/8	1¼
Mounting Holes	(4) ⅜	(6) 7/16	(6) 9/16	(6) 9/16
Cat. Number*	DP3___	DP4___	DP5___	DP6___
Max. OD Cable	See table corresponding to base size			
Shpg. Wgt. lbs	2	2	3	6

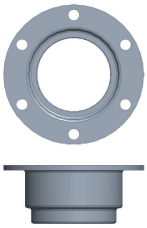
*Add suffix digit for no. of cable holes.
Ex: DP30 is blank & DP34 has 4 holes.

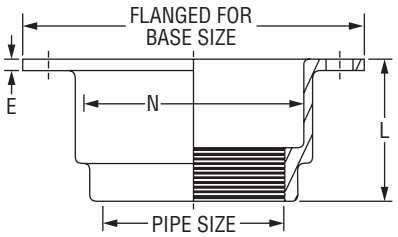
CC

CONDUIT COUPLING

Base Size	Pipe Size	Catalog No.	Part	Dimensions inches			Shpg. Wt. lbs.
				E	N	L	
3	1	CC310	A70-F	¼	2 9/16	2	1½
	1¼	CC312	A70-1F	¼	2 9/16	2	1½
	1½	CC314	A70-2F	¼	2 9/16	2	2
	2	CC320	A70-3F	¼	2 9/16	2	2
	2½	CC324	A70-4F	¼	2 9/16	2	2
	3	CC330	A70-5F	¼	2 9/16	3	2
	3½	CC334	A70-6F	¼	2 9/16	3¼	4
	4	CC340	A70-7F	¼	2 9/16	3⅝	5
4	1½	CC414	B610-F	¼	3½	2¼	2½
	2	CC420	B611-F	¼	3½	2¼	2¾
	2½	CC424	B612-F	¼	3½	2½	3½
	3	CC430	B613-F	¼	3½	2¾	3¾
	3½	CC434	B614-F	¼	3½	3¼	4½
	4	CC440	B615-F	¼	3½	3¾	6
	4½	CC444	B616-F	¼	3½	4¼	7
	5	CC450	B617-F	¼	3½	4¼	8
5	3	CC530	B620-F	⅜	4⅝	3	6
	3½	CC534	B621-F	2/8	4⅝	3	6½
	4	CC540	B622-F	⅜	4⅝	3	7
	4½	CC544	B623-F	⅜	4⅝	3	8
	5	CC550	B624-F	⅜	4⅝	4½	10
	6	CC560	B625-F	⅜	4⅝	5	11
6	6	CC660	B625-7F	⅜	5⅝	5¼	15

Conduit Couplings are cast iron and are threaded for use on metal conduit. Available also in bronze (add suffix "G1" to catalog number) or aluminum (add suffix "G2" to catalog number) if desired. Material subject to availability. Also may be furnished with set screws to hold in place on fiber duct.



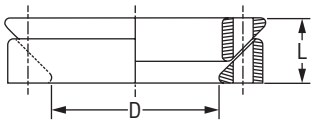


WAF

WIRE ARMOR CLAMP

Base Size	Catalog No.	Part No.	Dimensions inches		Shpg. Wt. lbs.
			D	L	
3	WAF31	B318-44J/45J	2¾	1⅝	5
4	WAF41	B318-38J/40J	3½	1⅝	6
5	WAF51	B318-36J/37J	5	2	8

Type “WAF” wire armor clamps are bronze and consist of two mating rings which bolt together to clamp the armor wires. Only one size “WAF” fitting is required for each base size pothead.

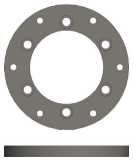


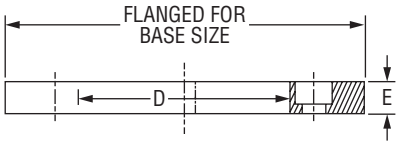
BE

BASE ENLARGER

Enlarges Base Size From	Catalog No.	Part No.	Dimensions inches			Shpg. Wt. lbs.
			D	E	L	
3 to 4	BE34	A3017-115	2¾	⅝	⅝	4
4 to 5	BE45	A3017-18	4	¼	1¼	6
5 to 6	BE56	B1573-26	5	¾	¾	14

Base enlargers are cast iron. (Base size #5 to #6 enlarger fabricated from mild steel:) Available also in bronze, if desired. (Add suffix "G1" to catalog number.) Material subject to availability.





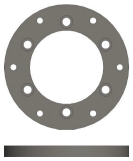
BR

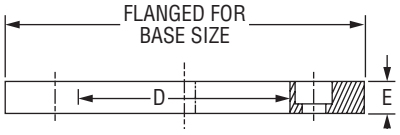
BASE REDUCER

Enlarges Base Size From	Catalog No.	Part No.	Dimensions inches			Shpg. Wt. lbs.
			D	E	L	
4 to 3	BR43	A3017-2	2¾	11/16	11/16	4
5 to 3	BR53	A3017-11	2¾	¼	⅞	5
5 to 4	BR54	A3017-3	4	¼	1¼	6
6 to 5	BR65	B1178-2	5	½	1½	14

Base reducers are cast iron. The bottom half of the fitting is drilled and tapped to receive entrance fittings of a smaller base size.

Available also in bronze, if desired. (Add suffix “G1” to catalog number.) Material subject to availability.



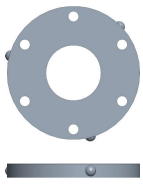


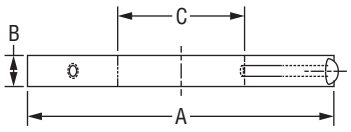
ACC

ARMOR CLAMPING COLLAR

Dimensions inches	Base Size		
	3	4	5
A	3½	5½	7¼
B	¾	¾	¾
C Max	2 7/16	3 7/8	4 7/8
Mounting Holes	(4) ⅜	(6) 7/16	(6) 9/16
Catalog Number	ACC31	ACC41	ACC51
Max. OD Over Armor	1 15/16	3¾	4¾
Shipping Wt.-lbs	2	4	6

For clamping an interlocked armor cable. The clamping collar is fastened by using setscrews which are tightened into the crevices of the armor.





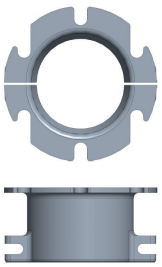
AC

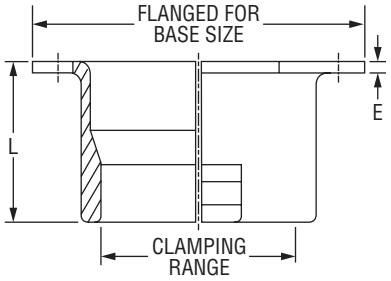
ARMOR CLAMP

Base Size	Clamping Range Diameters inches	Catalog No.	Part No.	Dimensions inches		Shipping Wt. lbs.
				E	L	
3	Up to 1	AC310	A170	7/16	2½	3
	1 to 1⅜	AC313	A170-1	7/16	2½	2½
	1⅜ to 1⅝	AC315	A170-2	7/16	2½	2½
	1⅝ to 1⅞	AC317	A170-3	7/16	2½	2½
	1⅞ to 2⅛	AC321	A170-4	7/16	2½	3
4	Up to 1⅞	AC417	B307-6	¼	2¾	4½
	1⅞ to 2¼	AC422	B307-5	¼	2¾	4
	2¼ to 2⅝	AC425	B307-4	¼	2¾	4
	2⅝ to 3	AC430	B307	¼	2¾	5
	3 to 3⅜	AC433	B307-3	¼	2¾	5
	3⅜ to 3¾	AC436	B307-2	¼	2¾	5
	3¾ to 4	AC440	B307-1	¼	2¾	5
5	Up to 2¾	AC526	B308-6	¼	3½	7
	2¾ to 3	AC530	B308-2	¼	3½	8
	3 to 3⅜	AC533	B308-1	¼	3½	10
	3⅜ to 3¾	AC536	B308	¼	3½	9
	3¾ to 4⅛	AC541	B308-3	¼	3½	8
	4⅛ to 4½	AC544	B308-4	¼	3½	8
	4½ to 4⅞	AC547	B308-5	¼	3½	7

Type "AC" armor clamps are cast iron and are split (one fitting consists of two halves) for bolting together to clamp armor. Available also in bronze (add suffix "G1" to catalog number) if desired.

Material subject to availability.



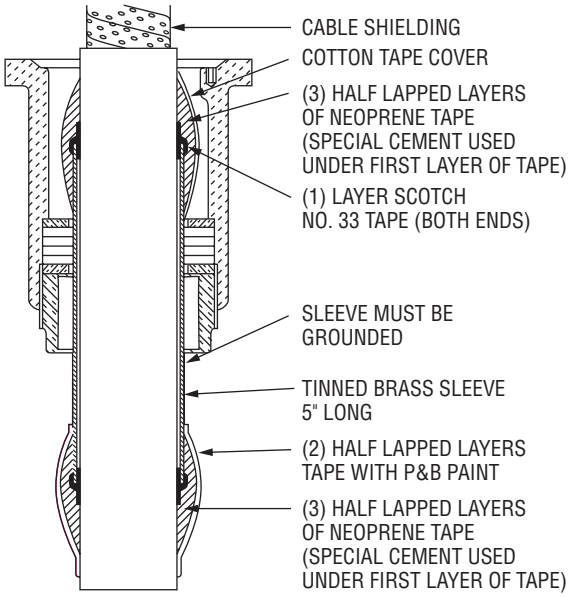


Ground Lugs

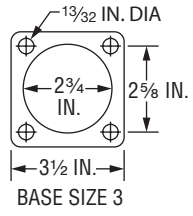
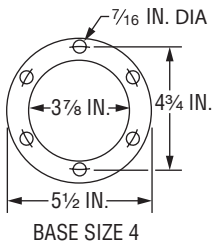
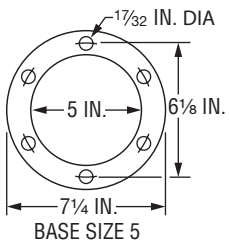
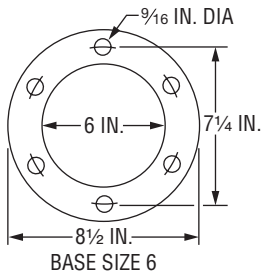
Ground lugs are used on 3/C terminations to accommodate a fourth conductor when one of the conductors is a grounded neutral. The maximum neutral conductor size is 4/0 AWG. To order, add the suffix “GL” to the catalog number of the 3/C termination selected. Specify conductor size.

Tube Seal Kits

Tube seal kits are required for terminating cables of soft insulation such as high molecular weight Polyethelene which may deform when sealed by a stuffing box entrance. The kit consists of a tinned brass sleeve, a special cement material and a sufficient quantity of cotton, neoprene and PVC sealing tapes. The kit is applied around the cable jacket to provide a positive sealing surface at the cable entrance fitting.



Entrance Fitting Gaskets

Base Size	3	4	5	6
Dimensions: Actual dimensions of entrance gaskets for each base size are shown				
Gasket Number	A1846-10	A1758	A1093	A1602-3
Mounting Screws	Four 5/16"-18 screws	Six ⅜" -16 screws	Six ½" -13 screws	Six ½" -13 screws

Stress Cone Kits

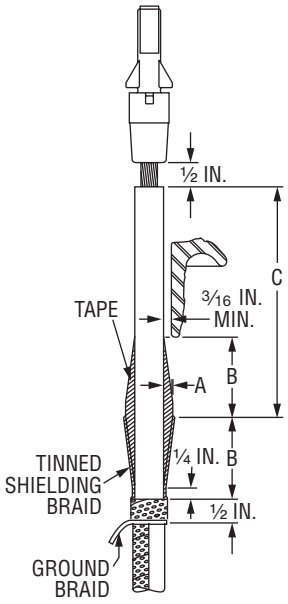
CROSS LINKED POLYETHELENE OR EPR INSULATED

Cable	Conductor Size		kV		
	AWG/KCM	mm²	15	25	34.5
(1) 1/C	1/0	53	1D10	2D10	3D15
	500	253	1D10	2D15	3D15
	1000	507	2D10	2D15	4D20
	2000	1013	2D15	3D20	4D25
(1) 1/C (3) 1/C	1/0	53	2D20	4D25	7D35
	500	253	3D25	5D35	9D45
	1000	507	4D30	6D40	10D55
	2000	1013	5D40	8D50	12D65

kV	Dimensions - inches		
	A	B	C min
15	¼	3½	5
25	5/16	4	8
34.5	⅜	4¾	12

Dry packed varnish Dacron glass tape and tinned copper shielding braid are recommended for use on cross linked Polyethelene insulated cables.

"A" Thickness of applied insulation
"B" Length of cone
"C" Minimum creepage from live conductor to end at shielding



EPR AND CROSS LINKED POLYETHYLENE INSULATED

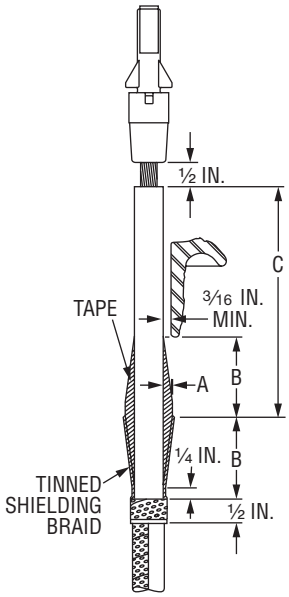
VARNISHED CAMBRIC OR PAPER INSULATED

Cable	Conductor Size		kV		
	AWG/KCM	mm²	15	25	34.5
(1) 1/C	1/0	53	1S5	2S10	2S10
	500	253	1S10	2S10	3S15
	1000	507	1S10	2S10	3S15
	2000	1013	2S10	2S15	4S20
(1) 3/C (3) 1/C	1/0	53	2S15	3S20	6S30
	500	253	3S20	4S25	7S35
	1000	507	3S20	5S30	8S40
	2000	1013	4S30	6S40	10S50

kV	Dimensions - inches		
	A	B	C min
15	¼	2¼	5
25	5/16	3	8
34.5	⅜	3½	12

Oil packed varnished Dacron glass tape and tinned copper shielding braid are recommended for use on both varnished cambric and paper insulated cables.

"A" Thickness of applied insulation
"B" Length of cone
"C" Minimum creepage from live conductor to end at shielding



VARNISH CAMBRIC AND PAPER INSULATED

For Permashield, Rubber or High Molecular Polyethelene Insulated cables, contact factory

Compounds

Compounds are a high dielectric strength filler material used in terminations, and cable joints. An ideal compound should be chemically inert, adhesive and tacky; have low melting point to permit flow into all unoccupied space before solidifying, low moisture absorption, low dielectric loss, high dielectric strength and high flash and fire point for personnel safety. The selection of the proper compound for a particular installation depends upon:

1. Cable type and kind of insulation
2. Operating voltage and temperatures
3. Cable system elevation differentials (PILC cable only).

TYPES OF COMPOUNDS

- **NOVOID "A"** is a medium soft asphaltic base compound recommended for use in most termination installations at 38kV or below.
- **NOVOID "X"** is a hard resin-base, oil insoluble compound recommended for use in terminations, and joints where migration of the cable-tape impregnant may be a problem. There are temperature limitations.
- **NOVOID #224** is a heavy polybutene base compound recommended for use in terminations, and joints for Polyethelene and EPR insulated cables.
- **NOVOID #219** is a medium viscosity oil recommended for use as a "flushing compound" for building cable splices or terminating where such "flushing" is required. It may also be used as filling compound in terminations and joints on solid type paper insulated cables where oil filled accessories are desired.

COMPOUND SELECTION CHART

Type of Cable Insulation	Compounds		
	Novoid A	Novoid X	Novoid 224
Paper Insulated, Lead Covered P.I.L.C.	Yes	Yes[1]	No
Cross Linked Polyethelene X-LPoly.	Yes	No	Yes
Ethylene Propylene Rubber E.P.R.	Yes[2]	No	Yes

[1] Not recommended for terminations operating above 15 kV where temperature may fall below –12°C (+10°F), or 15 kV and below, where temperature may fall below –24 °C (–10 °F). No temperature limitation for compound used in joints.

[2] Maximum pouring temperature 150°C (302°F).
Temperature ranges are specified in IEEE 48-1975 standards.

Compounds

Test	ASTM Designation	Novoid A	Novoid X	Novoid 219	Novoid 224
Flash Point (°C)	D92	320	232	160	221
Fire Point (°C)	D92	370	269	170	273
Softening Point (°C)	D36	35	54	–	–
Pouring Temp (°C) Max Normal	 – –	 227 149	 177 149	 121 110	 121 88
Loss of Heating %	D6	.26	.12	.40	.30
Vol. Coef. of Exp. ($in.^3/°C$)	D1168	.0006	.0006	.00065	.00065
Specific Gravity	D70	.98	1.14	.86	.90
Dielectric Str (v/mil) 25°C	D149 & D176	1000	900	400	500
Power Factor (%) 25°C 50°C 75°C	D150	1.9 2.5 14.4	9.0 7.8 19.3	.001 .001 .002	.015 .025 .028
S.I.C. 25°C 50°C 75°C	D150	2.6 2.7 2.8	4.7 6.6 7.5	2.4 2.3 2.2	2.1 2.2 2.2
Consistency at 25°C	–	Semi-solid	Hard	Fluid	Fluid
Color	–	Black	Brown	Clear	Clear
Weight (lbs./gal)	–	10	11.5	7.2	7.5

All test data are typical values.

Need for Compound

Compound is used in cable terminations to fill the internal space around the prepared cable end with an insulating material superior to that of air. Considering air as the insulating medium, when sufficient potential exists between the live conductor and the cut back ground shielding, ionization of the air (corona) will begin at the shielding end. The effects of weather and atmospheric contamination materially decrease the effective surface insulation and may result in failure (flashover) of the cable under normal operating voltage.

Compounds

Proper Compound Filling Procedures

PROPER COMPOUND FILLING IS ESSENTIAL TO THE PERFORMANCE OF THE CABLE TERMINATION. THE FOLLOWING TECHNIQUES AND CONSIDERATIONS SHOULD BE NOTED:

1. Always fill the termination compartment from the bottom up. Compounding should never be done with terminations in a horizontal position.
2. A 3/16 inch minimum clearance must be provided between the porcelain wall and cable or stress cone to permit the compound to rise into the porcelain.
3. Preheat the termination compartment body to at least 70°F to prevent premature cooling of the compound. This can be done using hot oil, hot air or infra-red lights. DO NOT apply an open flame directly onto the porcelain.
4. Use a large diameter riser pipe (see Figure 1). The pipe should extend approximately one foot above the high point of the porcelain to provide a static pressure head. The riser pipe should be the same size as the pipe boss or larger.
5. To vent the porcelain, loosen but do not remove the porcelain hoodnut and gasket.
6. For better and safer compounding, the compound should be heated and poured at the recommended temperature as shown on the compound container label or corresponding chart printed in this catalog. Always use a thermometer to assure proper pouring temperature.

. If the pouring temperature is too low, the compound may bridge across the smaller cavities and leave voids or clog up the filling and venting pipes. Also, all moisture laden air might not be driven out. When installing terminations in cold weather, it may be necessary to preheat the porcelain insulator and metal parts with a heating blanket, hot air oven or immersion in hot oil. If the pouring temperature is too high, the compound may injure the cable insulation or even reach the flash point of the compound and ignite. Also, the hotter the compound, the more it will shrink while cooling. Compound shrinkage should always be kept to a minimum.

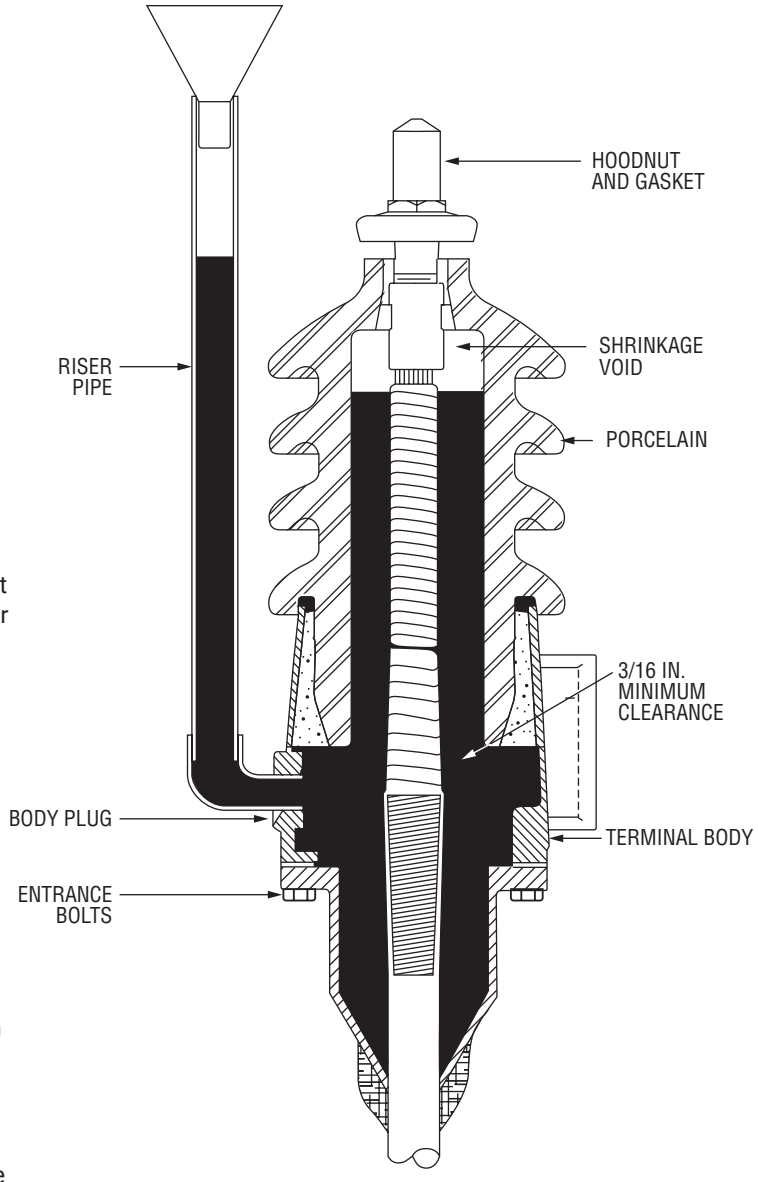


FIGURE 1. *COMPOUND FILLING DIAGRAM*

7. For 3/C terminations only, pour the compound through the riser pipe until it shows at the plug in the compartment lid. Secure the plug. For both 3/C and 1/C terminations, continue pouring until compound shows at the top of the porcelain. Temporarily tighten the hoodnuts.
8. Keep the riser pipe full of hot compound during the complete filling operation, including porcelain cooling time.
9. Field compounded terminations will always have shrinkage voids at the top of the vertically-mounted porcelains above the cable insulation. A small shrinkage void in this area is not objectionable. This shrinkage space is in a low stress area and provides room for compound expansion and contraction due to changes in ambient temperatures and load cycling. DO NOT “top off” terminations.
10. Let the compound cool down in the terminations and riser pipe.
11. Remove the riser pipe and secure the termination body plug.
12. Remove the hoodnut. Be certain to wipe the porcelain neck surface clean. Clean the porcelain of any spilled compound.
13. Install the hoodnut and gasket. The gasket must be clean, dry and oil free. Apply torque to the hoodnut to insure proper gasket seal. Torque and check the entrance bolts between the terminations body and entrance fittings.
14. Make the required hoodnut aerial connections.

Lids, Bodies and Gaskets

Lid Code Numbering

E	J	3	C

E = Porcelain Size

J = Corresponding Body Size

3 = Number of Porcelains

C = Diverging (B) or Parallel (C) Porcelains

Note: *An extra digit after the code number indicates a modified assembly. Suffix "X" indicates aluminum lid; suffix "J" indicates bronze lid; all others are cast iron.*

Body Code Numbering

J	5	C

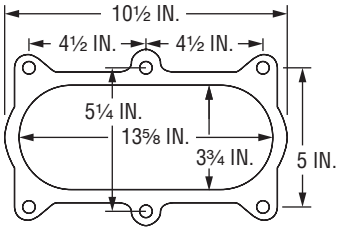
J = Corresponding Lid Size

5 = Base Size

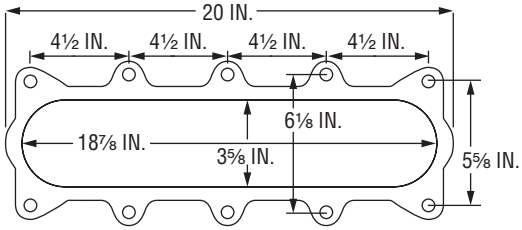
C = Body Shape

Note: *An extra digit is added to the code number to indicate modification for plate or flange mounting. Example: J4C-1 is basic J4C body with mounting brackets omitted, and blind drilled and tapped holes in the bosses for the lid bolts. J4C-2 is basic J4C body with mounting brackets omitted and through holes in bosses to permit passage of lid bolts from below.*

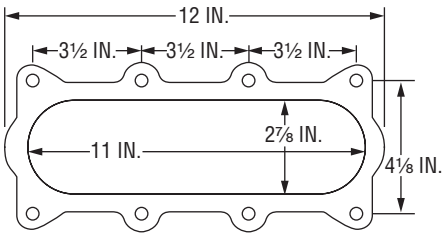
Lid Gaskets*



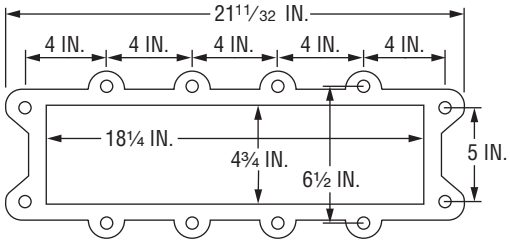
SIZE **E,** GASKET #B1624



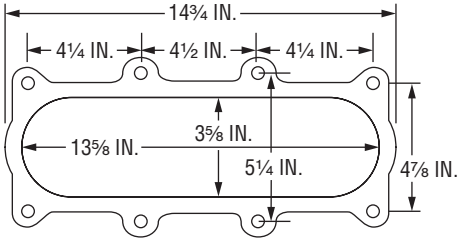
SIZE **K,** GASKET #B1626



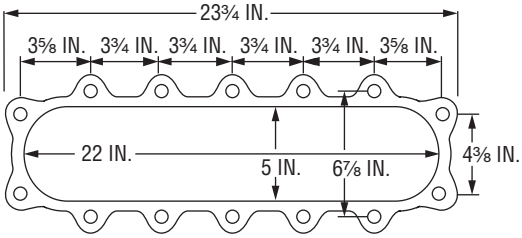
SIZE **H,** GASKET #B1777



SIZE **L,** GASKET #B1626-4



SIZE **J,** GASKET #B1625



SIZE **M,** GASKET #B1625-2

** Refer to Termination listings for lid dimensions.*

Lid, Body Assembly Selection Chart

BODIES LIDS

Body Shape	Approximate Dimensions in. (mm)						Body Symbol	Lid Size								
								J				K		L	M	
								Lid Symbol				Lid Symbol		Lid Symbol	Lid Symbol	
	W	H	B	L	M	N		DJ3B	DJ3C*	EJ3B2*	EJ3C*	EK3B1*	EK3C*	FL3B	FM3B*	FM3C*
C	15½ (394)	10 (254)	6½ (165)	—	7¼ (184)	3¾ (95)	J4C	■	■	■	■					
	15½ (394)	11½ 292)	8 (203)	—	7⅜ (187)	3¾ (95)	J5C	■	■	■	■					
	15½ (394)	19 (483)	14⅝ 372)	—	8⅛ (206)	4½ (114)	J6C	■	■	■	■					
	21 (533)	15 (381)	11 (279)	—	7⅜ (187)	3¾ (95)	K5C					■	■			
	21 (533)	16 (406)	11(279)	—	8¼ (210)	4¼ (108)	L5C							■		
	24½ (622)	22½ (572)	17⅝ (448)	—	8¹¹⁄₁₆ (221)	4½ (114)	M5C								■	■
	24½ (622)	24½ (622)	19⅝ (499)	—	8¹¹⁄₁₆ (221)	4½ (114)	M6C								■	■
K	10 (254)	11 (279)	3¼ (83)	15 (381)	7⅞ (200)	4¼ (108)	J5K	■	■	■	■					
	12 (305)	13½ (343)	3¾ (95)	18 (457)	7⅞ (200)	4¼ (108)	K5K					■	■			
U	15½ (394)	7½ (191)	3¼ (83)	—	14¼ (362)	3¾ (95)	J5U	■	■	■	■					
	21 (533)	10 (254)	5¾ (146)	—	15¾ (400)	3¾ (95)	K5U					■	■			
W	16¼ (413)	15 (381)	10 (254)	—	16¼ (413)	4¼ (108)	J5W	■	■	■	■					
	21 (533)	20 (508)	13 (330)	—	21 (533)	3¾ (95)	K5W					■	■			
L	17¾ (451)	12⅛ (308)	9⅛ (232)	9⅛ (232)	7½ (191)	3⅞ (98)	J5L	■	■	■	■					

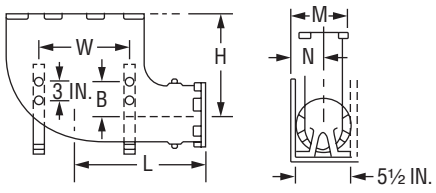
* Indicates lids that are also available in modified form to accommodate detachable porcelains. Add suffix "A" to lid symbol. (Example: EK3CA)

■ Indicates that lid and body may be combined.

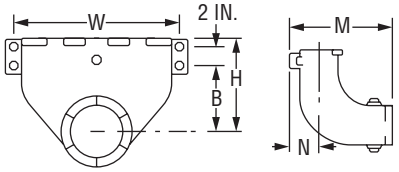
Termination Bodies

Shape C body is standard. Other body shapes are available as shown. Refer to selection chart above for compatible.

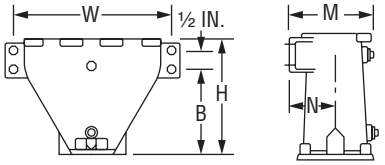
Shape **K**



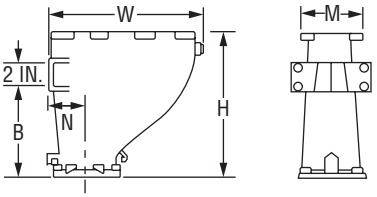
Shape **U**



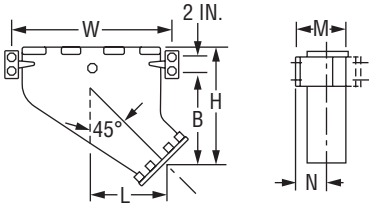
Shape **C**



Shape **W**



Shape **L**



Porcelain

The best grade of wet-process porcelain, glazed inside as well as outside, is used to provide added strength and better electrical characteristics. Insulators are subjected to routine tests as prescribed in IEEE 48 Standards for Terminations.

Outdoor type porcelains have petticoats to provide additional external creepage. For inverted outdoor application, the contour of the petticoat is reversed. Corrugated type porcelains are used for indoor applications.

Cemented type porcelains for outdoor, indoor or inverted application are always factory assembled to the body of a single conductor pothead or lid of a multi conductor pothead. Only detachable type porcelains are furnished separately as a spare part.

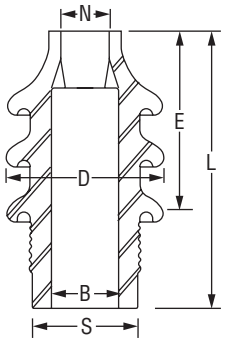
External creepage distance shown in the table is the creepage path over the outside surface of the porcelain from lower extremity of the metal hoodnut to the nearest point of contact to the metal termination lid or body.

Strike distance may be defined as the tight string measurement (air path) between these same two reference points.

The first digit of the insulator symbol is identical to the first digit of a lid symbol for parts which fit together. Example: "EF" Porcelain fits lid EK3C. Second digit of 1/C pothead body code number is the same as the first digit of the insulator symbols for parts which fit together. Example: "EF" porcelain fits body E5K.

OUTDOOR

Porcelain Identification		Approximate Dimensions in. (mm)						Creepage in. (mm)	Strike in. (mm)	Approx. Shpg wgt. lbs. (kg)
Symbol	Part #	B	D	E	L	N	S			
EE	A4818	2 (51)	5 (127)	7⅜ (187)	10 (254)	1⅛ (29)	3 1/16 (78)	14 (356)	8⅛ (206)	5 (2.3)
EG	A4820	2 (51)	5 (127)	7⅜ (187)	10 (254)	1 5/16 (33)	3 1/16 (78)	13¼ (337)	8 (203)	5 (2.3)
EK	A4826	2 (51)	5½ (140)	10 (254)	12 5/8 (321)	1 5/16 (33)	3 1/16 (78)	19 (483)	11⅛ (283)	8 (3.6)
FD	A4836	2¾ (70)	6 (152)	7 (178)	10 (254)	1 5/16 (33)	4⅛ (105)	14 (356)	8⅛ (206)	9 (4.1)
FF	A4827	2⅞ (73)	6½ (165)	10 (254)	13 (330)	1 5/16 (33)	4 (102)	18½ (470)	11¼ (286)	13 (5.9)
FM	B4880-2	2¾ (70)	6½ (165)	15 (381)	18 (457)	1 5/16 (33)	4⅛ (105)	32 (813)	16½ (419)	25 (11.4)
GA	A4823	3½ (90)	6½ (165)	8 (203)	11⅛ (283)	2 (51)	4¾ (121)	13½ (343)	8 5/8 (219)	10 (4.5)
GC	A4829	3½ (90)	6½ (165)	10 (254)	13⅛ (333)	2 (51)	4¾ (121)	17½ (445)	10 5/8 (270)	13 (5.9)
HA	B4843	3½ (90)	7 (178)	16⅜ (416)	19½ (495)	2 (51)	5¼ (133)	28½ (724)	17¼ (483)	31 (14.1)
HB	B4843·4	3¼ (83)	7 (178)	21¼ (540)	24⅜ (619)	1 5/16 (33)	5¼ (133)	40½ (1029)	22½ (572)	36 (16.3)
HG	B4843-21	3½ (90)	8 (203)	20 5/16 (516)	23 7/16 (595)	2 (51)	5¼ (133)	45 (1143)	21 (533)	36 (16.3)

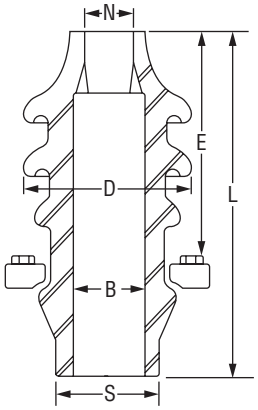


DETACHABLE

Porcelain Identification		Approximate Dimensions in. (mm)						Creepage in. (mm)	Strike in. (mm)	Approx. Shpg wgt. lbs. (kg)
Symbol	Part #	B	D	E	L	N	S			
EAG†	A4818-3	2 (51)	5 (127)	9⅞ (251)	11½ (292)	1 5/16 (33)	2⅞ (73)	15¼ (387)	8¾ (222)	7 (3.2)
EAK†	A4826-1	2 (51)	5½ (140)	12 (305)	14¼ (362)	1⅛ (29)	2⅞ (73)	21 (533)	11⅜ (289)	12 (5.5)
EAH*	A4821-1	2 (51)	4 (102)	9¼ (235)	11½ (292)	1 5/16 (33)	2⅞ (73)	12 (305)	8¾ (222)	6 (2.7)
EAL*	A4825-2	2 (51)	4 (102)	12 (305)	14¼ (362)	1⅛ (29)	2⅞ (73)	16¾ (425)	11⅜ (289)	10 (4.5)

† Petticoated Porcelain

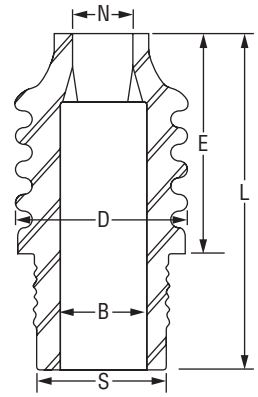
* Corrugated Porcelain



INDOOR

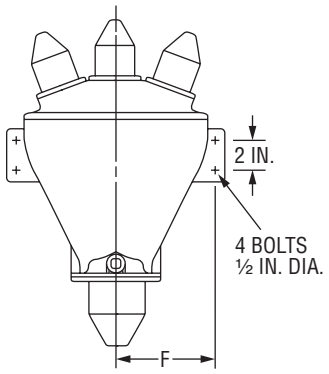
Porcelain Identification		Approximate Dimensions in. (mm)						Creepage in. (mm)	Strike in. (mm)	Approx. Shpg wgt. lbs. (kg)
Symbol	Part #	B	D	E	L	N	S			
EF	A4819	2 (51)	3¾ (95)	7⅜ (187)	10 (254)	1⅛ (29)	3 1/16 (78)	10½ (267)	7½ (191)	5 (2.3)
EH	A4821	2 (51)	3¾ (95)	7⅜ (187)	10 (254)	1 5/16 (33)	3 1/16 (78)	10 (254)	7⅜ (187)	5 (2.3)
EL	A4825	2 (51)	3¾ (95)	10 (254)	12⅝ (321)	1⅛ (29)	3 1/16 (78)	15 (381)	10¼ (260)	6 (2.7)
FE	A4837	2¾ (70)	5⅛ (130)	7 (178)	10 (254)	1 5/16 (33)	4⅛ (105)	10½ (267)	7⅜ (187)	8 (3.6)
FG	A4828	2⅞ (73)	5⅛ (130)	10 (254)	13 (330)	1 5/16 (33)	4⅛ (105)	16 (406)	10½ (267)	10 (4.5)
FM†	B4880-2	2¾ (70)	6½ (165)	15 (381)	18 (457)	1 5/16 (33)	4⅛ (105)	32 (813)	16½ (419)	25 (11.4)
GB	A4824	3½ (90)	5¾ (146)	7 (178)	10⅛ (257)	2 (51)	4¾ (121)	11 (279)	7¼ (184)	10 (4.5)
GD	A4830	3½ (90)	5¾ (146)	10 (254)	13⅛ (333)	2 (51)	4¾ (121)	15 (381)	10¼ (260)	13 (5.9)
GF	B4843-14	3¼ (83)	5¾ (146)	16½ (419)	19⅝ (499)	1 5/16 (33)	4¾ (121)	26 (660)	16¾ (425)	18 (8.2)

† Petticoated Porcelain



Spreader Heads

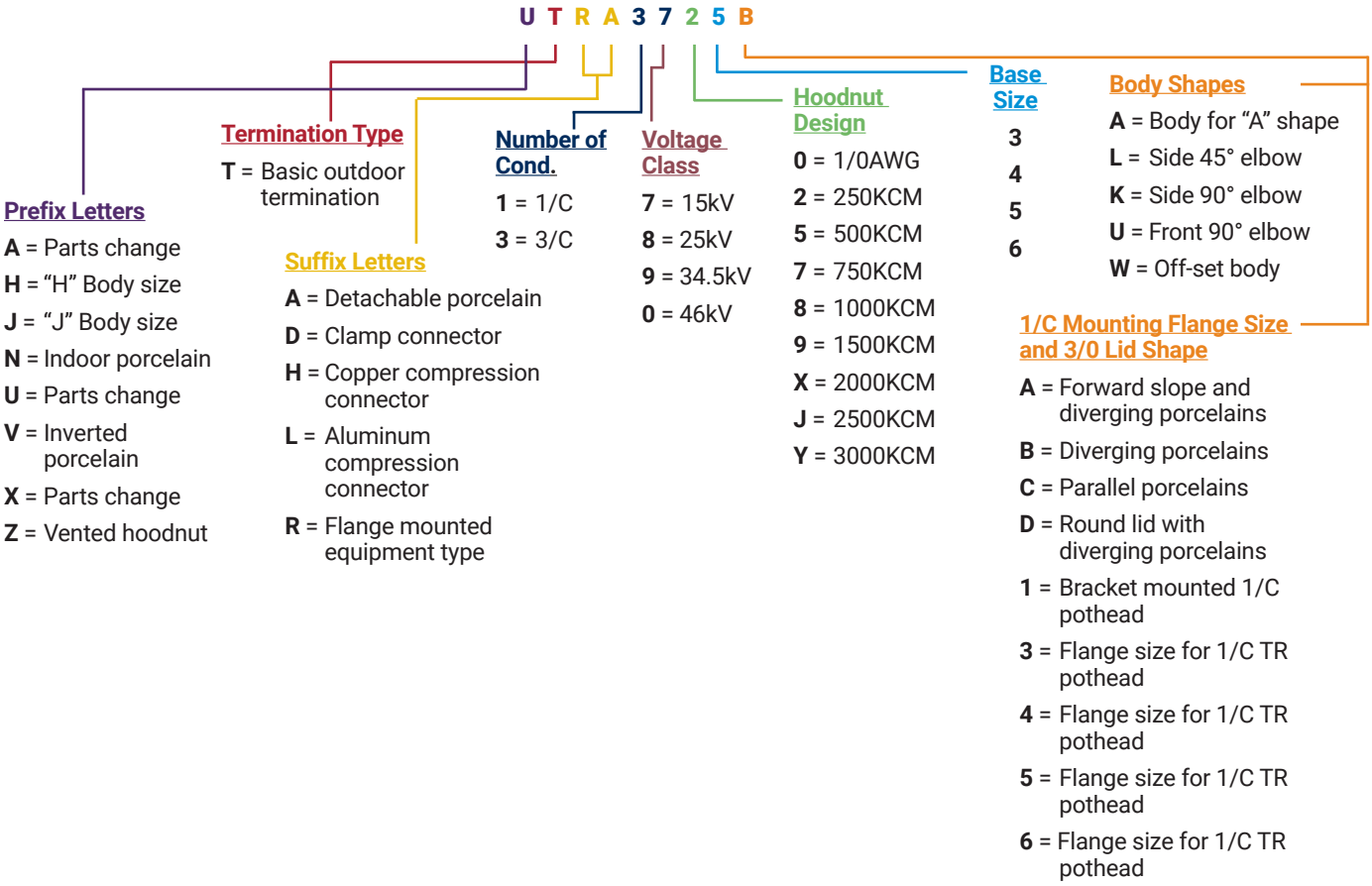
Spreader heads are used in conjunction with single conductor terminations when a greater phase-to-phase aerial spacing is required than provided by multi-conductor terminations. The spreader heads are applicable on three conductor paper or varnished cambric insulated, lead covered cables and rubber or Polyethelene insulated jacketed cables with a maximum O.D. of 3¾ inches. Spreader heads can be oil or compound filled. For compound filling, soft Novoid "A" is recommended. In certain applications, a harder compound such as Novoid "X" can be used to form a barrier at the base of the spreader head to reduce the possibility of migration of the soft compound into the cable.



Max. Dia. 3/C Cable in. (mm)	Catalog Number	Body		Wiping Sleeves		Approx. Compound Required Gal. (L)	Approx. Shpg. Weight lbs. (kg)
		Symbol	"F" in. (mm)	Body Base	Lid Top		
2¾ (70)	H4B3	H4C	6½ (165)	WS41	WS31	2 (7.6)	60 (27)
3¾ (95)	J5B4	J5C	7¾ (197)	WS51	WS41	3½ (13.3)	80 (36)

Bracket Insulators

Catalog Numbering System



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