

Cable Terminations

Elastimold® cable terminations are available in single piece or modular designs. Terminators allow connection and transition from shielded, underground cable to bare overhead conductors and live-front equipment. Units are designed and rated per IEEE Standard 48 for riser pole, padmount, indoor and outdoor applications. PCT1, PCT2, 16THG and 35MTG terminators provide sufficient creep, strike and weather sealing for class 1 outdoor service. PCT1 and PCT2 also include an integral cable jacket seal.

The 35MTGI terminators and 35MSC stress cones are rated for class 2 and class 3 indoor service respectively. Optional mounting brackets, aerial lugs and equipment connectors are available as required.



Electrical Ratings Summary

The following ratings summary is based on IEEE Std. 48 and applies to all the terminations on pages A26 thru A29. Elastimold terminations are designed for use on three-phase systems, either 3-wire or 4-wire and the single-phase laterals of these systems.

Voltage Ratings

15 kV Class

9.5 kV Phase-to-Ground
110 kV BIL 1.2 x 50 microsecond wave
AC Withstand:

50 kV 1 min. – dry
35 kV 6 hr. – dry
45 kV 10 sec. – wet
13 kV Corona Extinction

25 kV Class

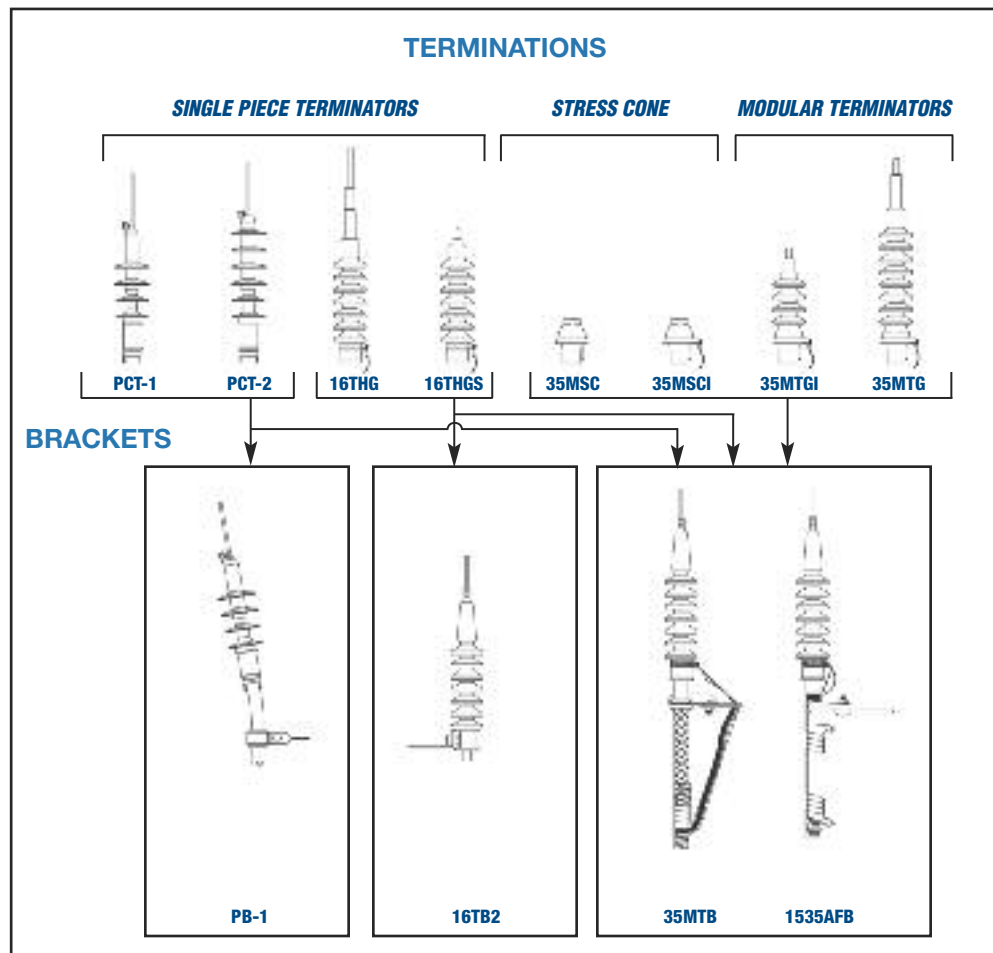
16 kV Phase-to-Ground
150 kV BIL 1.2 x 50 microsecond wave
AC Withstand:

65 kV 1 min. – dry
55 kV 6 hr. – dry
60 kV 10 sec. – wet
21.5 kV Corona Extinction

35 kV Class

22 kV Phase-to-Ground
200 kV BIL 1.2 x 50 microsecond wave
AC Withstand:

90 kV 1 min. – dry
75 kV 6 hr. – dry
80 kV 10 sec. – wet
30 kV Corona Extinction



Cable Terminations

Illustration (not to scale)	Description	Voltage Class	ELASTIMOLD Cat. No.	Notes
	Single-Piece Terminator (Class 1)	15 kV 25 kV	PCT1-1X-4 Use Table X9 PCT2-1X-4 Use Table X9	N12, 14, 15, 22 N12, 14, N15, 23
	Housing only	15 kV 25 kV	PCT1-4 PCT2-4	N13,22 N13,23
	Single-Piece Terminator (Class 1)	15/25 kV	16THG-WOX-4 Use Tables W12 and X8	N2, 14 15
	Housing only	15/25 kV	16THGH-W Use Table W12	
	Single-Piece Terminator for solid conductor only (Class 1)	15/25 kV	16THGS-WX Use Tables W12 and X4	N3
	Stress Cone (Class 3)	ALL	35MSC-W Use Table W11	N17
	Stress Cone w/Grd. Strap	ALL	35MSCI-W Use Table W11	N17
	Modules only	ALL	35MG-W Use Table W13	N11, 16
	Modular Terminator (Class 1)	15 kV	35MTG-WX-4-CA Use Tables W13 and X3	N2, 11
		25 kV	35MTG-WX-8-CA Use Tables W13 and X3	N2, 5, 11
		35 kV	35MTG-WX-10-CA Use Tables W13 and X3	N2, 6, 11
	Modular Terminator (Class 2) w/o Rain Cap	15 kV	35MTGI-W-4 Use Table W13	N11
		25 kV	35MTGI-W-6 Use Table W13	N11
		35 kV	35MTGI-W-8 Use Table W13	N7, 11
	Rod Contact for PCT	15/25 kV	00700X Use Table X9	N1, 14, 15
	Rod Contact for 16THG	15/25 kV	16TCA-X Use Table X8	N2, 8
	Solid Conductor Package for 16THGS	15/25 kV	16CAS-X Use Table X4	N3, 9
	3/4 in.-16 Threaded Rod for MTG	ALL	35MTGA-WX-1 Use Tables W13 and X3	N2, 10, 11 18, 25
	1 in.-14 Threaded Rod for MTG	ALL	35MTGA-WX-2 Use Tables W13 and X3A	N2, 10, 11 19, 25
	Two-Hole Spade for MTG	ALL	35MTGA-WX-3 Use Tables W13 and X3	N4, 10, 11 20, 25
	Two-Hole Spade for PCT	ALL	01000X Use Table X9	N1
	One-Hole Spade for PCT	ALL	01100X Use Table X9	N1
	Universal Rod for MTG	ALL	35MTGA-WX-4 Use Tables W13 and X3	N2, 10, 11 21, 25
	Aerial Lugs for MTG Threaded Rod (Two-hole spade or bare wire)	ALL	35AL-A	N10, 24

N1. Use with PCT1 or PCT2 Terminators.
 N2. Includes contact rod, ground strap and rain cap.
 N3. Includes crimp ring, ground strap and rain cap.
 N4. Includes spade contact, ground strap and rain cap.
 N5. For KA thru PB sizes use 35MTG-WX-6-CA.
 N6. For KA thru PB sizes use 35MTG-WX-8-CA.
 N7. For KA thru PB sizes use 35MTGI-W-6.
 N8. Use with 16THG Terminators.
 N9. Use with 16THGS Terminators.
 N10. Use with 35MTG Terminators.
 N11. Refer to page A26 for detailed ordering instructions.
 N12. Includes rod contact as standard. Specify suffix "-3" in place of "-4" for two-hole spade lug. Specify suffix "-5" in place of "-4" for one-hole spade lug.
 N13. Specify suffix "-3" or "-5" in place of "-4" for two-hole spade lug housing or one-hole spade style housing.
 N14. Use 1X for an aluminum rod contact for aluminum conductors only.
 N15. Substitute 0X for 1X for a universal aluminum rod contact for aluminum or copper conductors.
 N16. Available in sizes from GA thru PB and are supplied qty. 2 per package.
 N17. Available in sizes EB thru PB.
 N18. For conductors from 1/0 thru 350 kcmil.
 N19. For conductors from 400 kcmil thru 1000 kcmil.
 N20. For conductors from #2 to 1000 kcmil.
 N21. For conductors from #6 thru 4/0.
 N22. Use for insulation dia. range from .640 in. thru 1.070 in.
 N23. Use for insulation dia. range from .830 in. thru 1.180 in.
 N24. Select symbol for "A" from aerial lug ordering information on page A28.
 N25. W13 Table provides sizing for rain cap. X10 Table provides sizing for connectors.

Refer to the W and X tables on pages A39 to A41 for sizing to cable insulation diameter and conductor size.
 For cable shield adapters and jacket seals, see page A30.

Cable Terminations

ORDERING INSTRUCTIONS FOR MODULAR TERMINATORS

35MTG - W X - N - C A

I - Indoor
Blank = Outdoor

Use Table W13, below

Use Table X3 or Table X3A

NOTE: Applicable table and available sizes depend upon connector style.
Reference Connector Style Selection Chart and notes A through D.

Recommended
Number of Modules

	GA-JB	KA-PB
15 kV	4	4
25 kV	8	8
35 kV	10	10

Connector Style Selection Chart

Description	Available for Conductor Sizes	Symbol	Notes
3/4 in.-16 Threaded Rod	1/0 thru 350 kcmil	-1	A
1 in.-14 Threaded Rod	400 thru 1000 kcmil	-2	B
2-Hole Spade	#2 thru 1000 kcmil	-3	C
Universal Rod	#6 thru 4/0	-4	D

Aerial Lugs for Threaded Rod Connectors Only

Type	Connector	Symbol
Bare Wire	3/4 in.-16 Rod	-11
2-Hole Spade	3/4 in.-16 Rod	-12
Bare Wire	1 in.-14 Rod	-21
2-Hole Spade	1 in.-14 Rod	-22

NOTES:

- A. Available for 1/0 through 350 conductor sizes only. Use Table X3 for size selection.
B. Available for 400 through 1000 conductor sizes only. Use Table X3A for size selection.
C. Available for #2 through 1000 conductor sizes only. Use Table X3 for size selection.
D. Available for #6 through 4/0 conductor sizes only. Use Table X3 for size selection.

Table W13
USE FOR
FOLLOWING
PRODUCTS
35MTG
35MTGI

Cable insulation Diameter in (in.)		Symbol for W
Min.	Max.	
0.775	0.885	GA
0.825	0.935	GAB
0.875	0.985	GB
0.930	1.040	GH
0.980	1.115	HA
1.040	1.175	HAB
1.095	1.240	HB
1.160	1.305	HJ
1.220	1.375	JA
1.285	1.395	JAB
1.355	1.520	JB
1.485	1.595	KA
1.530	1.640	KAB
1.575	1.685	KB
1.665	1.785	PA
1.755	1.875	PB

Table X3
USE FOR
FOLLOWING
PRODUCTS
35MTG

FOR USE WITH
STYLE-1,-3, and -4
CONNECTORS
ONLY.

SEE NOTES A,
C, and D FOR
APPLICATION
INFORMATION

Conductor SIZE AWG or kcmil	Symbol for X	
	Strand./ Compr.	Compt./ Solid
#6	5	—
#5	4	5
#4	3	4
#3	2	3
#2	1	2
#1	0	1
1/0	10	0
2/0	20	10
3/0	30	20
4/0	40	30
250	250	40
300	300	250
350	350	300
400	400	350
450	450	—
500	500	400
550	550	450
600	600	500
650	650	550
700	750	600
750	750	650
800	800	750
900	900	800
1000	1000	900

Table X3A
USE FOR
FOLLOWING
PRODUCTS
35MTG














FOR USE WITH
STYLE-2
CONNECTORS
ONLY.

SEE NOTES B
FOR APPLICATION
INFORMATION

Conductor SIZE AWG or kcmil	Symbol for X	
	Strand./ Compr.	Compt./ Solid
400	400	—
450	450	400
500	500	450
550	550	500
600	600	500
650-700	650	550
750	750	600
800	750	650
1000	1000	—

Cable Terminations

TERMINATIONS

Illustration (not to scale)	Description	Voltage Class	ELASTIMOLD Cat. No.	Notes
	PCT Positioning Bracket	ALL	PB-1	N1, 12
	16THG Bracket	ALL	16TB-2	N6
	Bracket for crossarm 16THG	ALL	16TB-3	N6
	Bracket for riser pole mounting 16THG	ALL	16TB-4	N6
	Bracket for tri-mounting 16THG	ALL	16TB-5	N6
	KELLUMS GRIP Bracket	ALL ALL ALL ALL	35MTB1-A 35MTB1-B 35MTB1-C 35MTB1-D	N1, 2, 6, 7 N1, 3, 6, 7 N1, 4, 6, 7 N1, 5, 6, 7
	KELLUMS Bracket for crossarm mounting	ALL ALL ALL ALL	35MTB3-A 35MTB3-B 35MTB3-C 35MTB3-D	N1, 2, 6, 7 N1, 3, 6, 7 N1, 4, 6, 7 N1, 5, 6, 7
	Bracket (for riser pole mounting)	ALL ALL ALL ALL	35MTB4-A 35MTB4-B 35MTB4-C 35MTB4-D	N1, 2, 6, 7 N1, 3, 6, 7 N1, 4, 6, 7 N1, 5, 6, 7
	KELLUMS Bracket for tri-mounting	ALL ALL ALL ALL	35MTB5-A 35MTB5-B 35MTB5-C 35MTB5-D	N1, 2, 6, 7 N1, 3, 6, 7 N1, 4, 6, 7 N1, 5, 6, 7
	ALUMA FORM Bracket	ALL	1535AFB-1	N1, 6, 7, 13
	ALUMA FORM Bracket for Crossarm mounting	ALL	1535AFB-3	N1, 6, 7, 13
	ALUMA FORM Bracket for riser-pole mounting	ALL	1535AFB-4	N1, 6, 7, 13
	ALUMA FORM Bracket for tri-mounting	ALL	1535AFB-5	N1, 6, 7, 13

N1. Use with PCT-1 or PCT-2 Terminators.
 N2. Fits overall cable O.D. from 1.195 in. to 1.625 in.
 N3. Fits overall cable O.D. from 0.925 in. to 1.335 in.
 N4. Fits overall cable O.D. from 0.890 in. to 1.185 in.
 N5. Fits overall cable O.D. from 1.500 in. to 2.000 in.
 N6. Use with 16THG and 16THGS Terminators.
 N7. Use with MTG, MTG1 and MSC Terminators.
 N8. For conductors from 1/0 thru 350 kcmil.
 N9. For conductors from 400 kcmil thru 1000 kcmil.
 N10. For conductors from #2 to 1000 kcmil.
 N11. For conductors from #6 thru 4/0.
 N12. Fits overall cable O.D. from 0.750 in. to 1.625 in.
 N13. Fits overall cable O.D. from 0.750 in. to 2.000 in.

Refer to the W and X tables on pages A39 to A41 for sizing to cable insulation diameter and conductor size.
 For cable shield adapters and jacket seals, see page A30.