

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

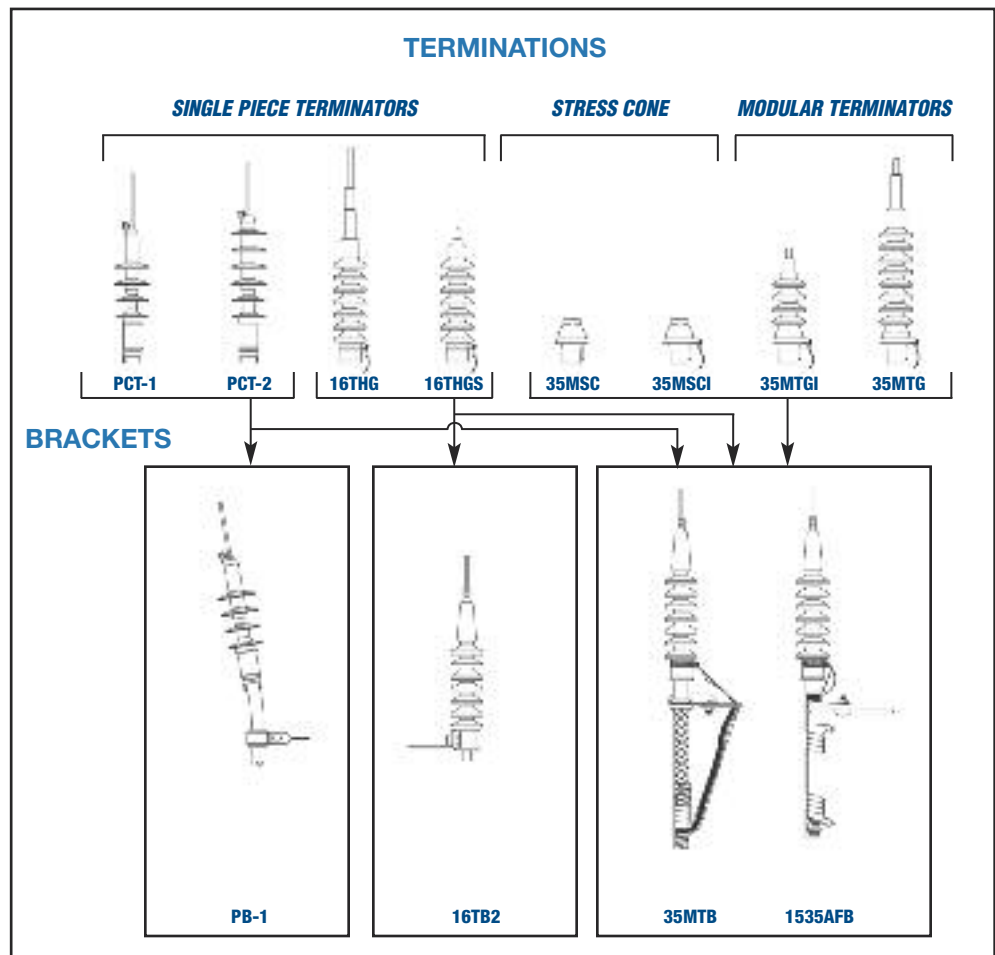
16 kV Phase-to-Ground
150 kV BIL 1.2 x 50 microsecond wave
AC Withstand:

- 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 OX 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.

WX Size Tables

Table W10 USE FOR FOLLOWING PRODUCTS 35PCJ-1 35PCJ-2	Cable Insulation Diameter (in.)		Symbol for W
	Min.	Max.	
	0.850	1.050	
0.980	1.180	J	
1.090	1.310	K	
1.180	1.465	L	
1.280	1.430	LM	
1.370	1.630	M	
1.515	1.780	N	
1.725	1.935	P	
1.900	2.120	Q	

Table W11 USE FOR FOLLOWING PRODUCTS 35MSC 35MSCI	Cable Insulation Diameter (in.)		Symbol for W
	Min.	Max.	
	0.495	0.585	
0.525	0.635	EF	
0.575	0.685	FA	
0.625	0.735	FAB	
0.675	0.785	FB	
0.725	0.835	FG	
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 W12 USE FOR FOLLOWING PRODUCTS 16THG 16THGS 16THGH	Cable Insulation Diameter (in.)		Symbol for W
	Min.	Max.	
	0.495	0.585	
0.525	0.635	EF	
0.575	0.685	FA	
0.625	0.735	FAB	
0.675	0.785	FB	
0.725	0.835	FG	
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	

Table W16 USE FOR FOLLOWING PRODUCTS 275/276LR 275/276LRS	Cable Insulation Diameter (in.)		Symbol for W	
	Min.	Max.		
	0.635	0.905		B
	0.800	1.060		CC
	0.940	1.170		DD
1.090	1.310	E		

Table X1 USE FOR FOLLOWING PRODUCTS 167/168ELR 273/274ELR 156LR 165/166LR 275/276LR 167LRT 167/168RLR 273/274RLR 00400 02500 02509 02702 02800 K151SP/SR K151LS/LY	Conductor Size AWG or kcmil	Symbol for X	
		Strand./ Compr.	Compt./ Solid.
		#4	200
#3	210	200	
#2	220	210	
#1	230	220	
1/0	240	230	
2/0	250	240	
3/0	260	250	
4/0	270	260	
250	-	270	

Table X2 USE FOR FOLLOWING PRODUCTS 375/376LR	Conductor Size AWG or kcmil	Symbol for X	
		Strand./ Compr.	Compt./ Solid.
		1/0	240
2/0	250	240	
3/0	260	250	
4/0	270	260	

Table X3 USE FOR FOLLOWING PRODUCTS 35MTG NOTE: SEE PAGE A24 FOR DETAILED 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	

WX Size Tables

Table X3A USE FOR FOLLOWING PRODUCTS 35MTG NOTE: SEE PAGE A24 FOR DETAILED 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	–

Table X4 USE FOR FOLLOWING PRODUCTS 16THGS 16CAS	Riser Conductor Size AWG Solid	Symbol for X
	#2	2
	#1	2
	1/0	10
	2/0	20
	3/0	30
	4/0	30

Table X6 USE FOR FOLLOWING PRODUCTS 655/656LRTP K655/656LRTP 755/756LRTP K656I/Y/H K655/656LR 755/756LR K655/656SR 655/656LINK K655/656LINK 755/756LINK 655/656ETP K655/656ETP 755/756ETP 655/656BI-LINK K655/656BI-LINK 755BI-LINK 655CK 755CK 655TCK 03600 03602 03700 03702	Conductor Size AWG or kcmil	Symbol for X	
		Strand./ Compr.	Compt./ Solid.
	#2	220	210
	#1	230	220
	1/0	240	230
	2/0	250	240
	3/0	260	250
	4/0	270	260
	250	280	270
	300	290	280
	350	300	290
	400	310	300
	450	320	310
	500	330	320
	550	340	320
	600	350	330
	650	360	340
	700	380	350
	750	380	360
	800	390	360
	900	400	380
	1000	410	400
	1250	440	420

Table X7 USE FOR FOLLOWING PRODUCTS 15PCJ1 25PCJ1 35PCJ1 15PCJ2 25PCJ2 35PCJ2	Conductor Size AWG or kcmil	Symbol for X	
		Strand./ Compr.	Compt./ Solid.
	#6	180	–
	#5	190	180
	#4	200	190
	#3	210	200
	#2	220	210
	#1	230	220
	1/0	240	230
	2/0	250	240
	3/0	260	250
	4/0	270	260
	250	280	270
	300	290	280
	350	300	290
	400	310	300
	450	320	310
	500	330	310
	550	340	320
	600	350	330
	650	360	340
	700	380	350
	750	380	360
	800	390	380
	900	400	380
	1000	410	400
	1250	440	420

Table X8 USE FOR FOLLOWING PRODUCTS 16THG 16TCA	Conductor Size AWG or kcmil	Symbol for X	
		Strand./ Compr.	Compt./ Solid.
	#6	180	–
	#5	190	180
	#4	200	190
	#3	210	200
	#2	220	210
	#1	230	220
	1/0	240	230
	2/0	250	240
	3/0	260	250
	4/0	270	260

Table X9 USE FOR FOLLOWING PRODUCTS PCT1 PCT2 01000 01010	Conductor Size AWG or kcmil	Symbol for X	
		Strand./ Compr.	Compt./ Solid.
	#2	220	210
	#1	230	220
	1/0	240	230
	2/0	250	240
	3/0	260	250
	4/0	270	260