



GUY-GRIP® DEAD-END

GUY-GRIP Dead-Ends, installed at the top, the strain insulators and the anchor, provide the most effective method for securing guy strand. This unique, one-piece dead-end is neat in appearance and free from bolts or holding devices that focus high-stress points on the strand. The GUY-GRIP Dead-End offers a cabled loop, a feature that provides more durability, easier tensioning and adaptability to multiple guying. It is intended for use on single wood poles associated primarily with distribution construction.

FEATURES AND BENEFITS

- For use on single wood poles associated with distribution construction
- Manufactured to match the material of the strand on which it is applied to inhibit corrosion and meet strength requirements
- Will accommodate attachment fittings with a broad range of seat diameters.
- Tooless application

- Can be reapplied twice within the first 90 days after the initial installation for retensioning
- Offset legs help identify the rods of each leg and make installation and removal of the dead-end easier
- Designed to permit strand tails to be buried within the dead-end or passed through the loop when a bond to ground is required



DESIGN CONSIDERATIONS

Description	Details
Material Selection	GUY-GRIP Dead-Ends are made of the same basic material as the strand to which they are applied. This pertains to galvanized steel, mischmetal alloy (AL/ZN), copper clad steel, aluminum clad steel, stainless steel Type 302, and stainless steel Type 316. Any of these materials can be selected from the catalog tables. The recommended types of strand are also indicated.
	GUY-GRIP Dead-Ends are intended for use on single wood poles associated with distribution construction. They were not designed or tested for use on overhead shield wires and not intended for that application. Refer to the Big-Grip Dead-End section as an alternate product recommended for transmission, or tower and antenna guying applications.
Application and Safety Considerations	Lay direction of both the GUY-GRIP Dead-Ends and the strand should be the same. Most strand is left-hand lay. GUY-GRIP Dead-Ends should only be used when guying lengths are less than 90 feet. See Big-Grip Dead-Ends for guying lengths longer than 90 feet.
Application and Salety considerations	Within the first 90 days after initial application, GUY-GRIP Dead-Ends may be removed and reapplied two times for the purpose of retensioning the guy. After 90 days a new dead-end should be used any time removal is required.
	GUY-GRIP Dead-Ends should be used on hardware that is held in a fixed position; the fitting should not be allowed to rotate or spin about the axis of the strand. They should not be used as tools; that is, come- alongs, pulling-in grips, etc. Refer to the Installation Tools section for the PLP Pulling Eye, designed to assist application at the anchor.
Strand Tail	For appearance and safety, the strand tail should be cut as close as convenient to the crossover mark and buried inside the crossover mark if possible. If desired, the strand tail can, instead, extend through the loop for grounding purposes. Any tail that extends through the loop should be restrained and not permitted to rotate during loading of the guy.
Mechanical Strength	GUY-GRIP Dead-Ends are rated at 100% of the strand's rated breaking strength unless otherwise specified.
Tapping	GUY-GRIP Dead-Ends are mechanical devices NOT designed as current transfer connectors. Consequently, tapping is not recommended over or through the GUY-GRIP Dead-End.
Cabled Loop	Anchor eyes and other fittings need groove diameters only slightly larger than the strand because the diameter of the cabled rods of GUY-GRIP Dead-Ends approximates the strand diameter. Cabled loops are designed for a variety of fittings with dimensions shown in the table under Attachment Hardware on the following page.

Additional Resources

For additional information regarding the use and installation of GUY-GRIP Dead-Ends, scan or click the QR code listed below.



GUY-GRIP Dead-End Webpage



Suggested Hardware Dimensions for Cabled-Loop GUY-GRIP Dead-Ends

Nominal Strand Size		Dead-End Diameter Range			Seat Dimensions (Figures 1 & 2)	Minimum Groove Diameter	Minimum Hole Diameter*	
	in	i	n		in		(Figure 2)	(Figure 3)
Galvanized Steel	Aluminum-Clad Steel	Minimum	Maximum	Minimum Seat Diameter at 1st Cross-Over Mark	Maximum Seat Diameter at 1st Cross-Over Mark	Maximum Seat Diameter at 2nd Cross-Over Mark	in	in
1/8	-	0.123	0.143	3/4	1-3/4	-	3/16	1/4
5/32	-	0.144	0.173	3/4	1-3/4	2-1/2	1/4	5/16
3/16	-	0.174	0.203	1	1-3/4	2-1/2	1/4	3/8
7/32	3 #10, 4M3	0.204	0.230	1-1/8	1-3/4	2-1/2	5/16	3/8
1/4	7 #12, 6M	0.231	0.259	1-1/8	1-3/4	2-1/2	5/16	7/16
9/32	7 #11, 8M	0.260	0.291	1-1/8	1-3/4	2-1/2	3/8	1/2
5/16	7 #10, 10M	0.292	0.336	1-1/4	1-3/4	2-1/2	3/8	9/16
3/8	7 #8, 14M, 16M	0.337	0.394	1-3/8	1-3/4	2-1/2	7/16	5/8
7/16	7 #7, 18M, 20M	0.395	0.474	1-3/8	2-3/8	-	1/2	11/16
1/2	7 #6	0.475	0.515	1-3/8	2-3/8	-	9/16	3/4
**	7 #5, 25M	0.516	0.570	1-1/2	2-5/8	-	5/8	15/16

* Depending on geometric shape of the hole, a hole diameter less than specified may be acceptable.

** Use Big-Grip Dead-Ends.

NOTES:

¹Guying of transmission structures and metal towers require Big-Grip Dead-Ends or VARI-GRIP™ Dead-Ends.

² Guying lengths of greater than 90 feet require Big-Grip Dead-Ends or VARI-GRIP Dead-Ends.



ATTACHMENT HARDWARE CONTINUED

Acceptable Hardware



Hardware Not Recommended for Use with GUY-GRIP Dead-Ends

CAUTION	CAUTION
Hardware of this type is not normally acceptable because fatigue life of GUY-GRIP Dead-Ends could be substantially reduced.	See the note below if considering using a thimble with attachment hardware.
	NOTE: Heavy-Duty-Type Cable Thimbles, if used, can collapse when guy tensions are high. If thimbles are used in the loop of the GUY-GRIP Dead-End, a large pin is recommended to fill the loop of the thimble to prevent distortion. The collapsing strength of the thimble and the proper pin size should be obtained from the thimble manufacturer.

GUY-GRIP® Dead-End

SPECIFICATIONS



GUY-GRIP Dead-End

Feature	Description
Identification Information Tag	Shows catalog number and pertinent dead-end information. Printed on a flag.
Color Code	Identifies strand size for colors corresponding to tabular information on catalog pages.
1st Crossover Mark	Indicates starting point for application on smaller diameter fittings described in the table under Attachment Hardware
2nd Crossover Mark	Indicates starting point for application on larger diameter fittings described in the table under Attachment Hardware
Short Leg and Long Leg	Identifies rods belonging to each leg after application. During application, the short leg should be applied first.
Pitch Length	One complete wrap of a leg
Gritted Length	Gritted helical legs retain the strand in place
Cabled Loop	Furnished as standard for all sizes. Allows the dead-end to form properly around the seat of the hardware fitting.
Applied Length	Assists in identification of strand size corresponding to tabular information appearing on catalog pages
Leg Offset	Ensures the wires of each leg are defined for future removal



GUY-GRIP Dead-End

ORDERING INFORMATION

Galvanized Steel Strand

For use on Extra High-Strength, High-Strength, Siemens Martin, Utilities Grade³

Catalog Number			Strand			Weight		Conductor Color Code	
		Size	Construction	Mean Diameter	Units per Carton	per Carton	Applied Length		
B-Coat	C-Coat	in		in		lb	in		
CDE 1102	CDE 2102	2/14	7W	0.186	100	20	20	D	
ODE-1102	ODE-2102	5/10	7W	0.195	100	27	20	Reu	
GDE-1103	GDE-2103	7/32	7W	0.216	50	18	24	Green	
CDE 110/	CDE 210/	1/4	3W	0.259	50	22	25	Vallaw	
GDE-1104	GDE-1104 GDE-2104		7W	0.240		22	25	fellow	
GDE-1105	GDE-2105	9/32	7W	0.279	50	26	28	Blue	
			3W	0.312				Black	
GDE-1106	GDE-2106	5/16	7W	0.312	50	38	31		
			7W	0.327					
CDE 1107	CDE 2107	2/0	3W	0.356	50	E1	25	Orango	
GDE-1107 GDE-2	GDE-2107	3/0	7W	0.360	50	51	35	Urange	
GDE-1108	GDE-2108	7/16	7W	0.435	25	39	38	Green	
CDE 1109	CDE 2109	1/2	7W	0.495	25	44	47	Plue	
GDE-1109	GDE-2109	1/2	19W	0.500	25	66	66 47	Бие	

Left-hand lay standard

NOTES:

¹ Big-Grip Dead-End is recommended as an alternative product for guying multiple pole structures or metal towers associated with transmission construction.

² Refer to Hardware Considerations for acceptable fittings. Cabled Loop design furnished as standard for all sizes.

³ Rated holding strength is 100% of published rating for all grades of galvanized strand.

⁴ Consult PLP for sizes and stranding not shown.

Mischmetal Alloy (AL/ZN) Strand

For use on Mischmetal Alloy Strand⁴

		Strand			Weight per		Conductor Color Code	
Catalog Number	Size	Construction	Mean Diameter	Units per Carton	Carton	Applied Length		
	in	construction	in		lb	in		
	2/1/	7W	0.186	FO	1 /	20	Ded	
BDE-9102	3/10	7W	0.195	50	14	20	Ked	
	1/4	3W	0.259	50	22	25	Vollow	
BDE-9104		7W	0.240				rellow	
	5/16	3W	0.312	50	38	31	Black	
BDE-9106		7W	0.312					
		7W	0.327					
	2/0	3W	0.356	50	50	25	0	
BDF-AI01	3/8	7W	0.360	50	52	35	Urange	
BDE-9108	7/16	7W	0.435	25	39	38	Green	
	1/2	7W	0.495	25	(0	47	Dlue	
BDE-9109	1/2	19W	0.500	25	68		ыце	

Left-hand lay standard

NOTES:

¹ Big-Grip Dead-End is recommended as an alternative product for guying multiple pole structures or metal towers associated with transmission construction.

² Refer to Hardware Considerations for acceptable fittings. Cabled Loop design furnished as standard for all sizes.

³ PLP mischmetal formed wire products are acceptable for use with Bezinal® and Galfan® coated strands.

Bezinal[®] is a registered trademark of the Bekaert Corporation. Galfan[®] is a registered trademark of the Galfan Technology Centre, LLC.

⁴ Rated holding strength is 100% of all grades of Mischmetal Alloy strand.

 $^{\rm 5}$ Consult PLP for sizes and stranding not shown.

Aluminum Clad Steel Strand

For use on all grades of Aluminum Clad Steel Strand³

	Stra	and		Weight per		
Catalog Number	Nominal Strand Size Mean Diameter		Units per Carton	Carton	Applied Length	Conductor Color Code
	in	in		lb	in	
AWDE-4102	3 #12	0.174	100	20	18	Orange
	4M	0.220	FO	10	21	Green
AVVDE-4100	3 #10	0.220	50	10	21	Green
	3 #9	0.247	50	20	24	Vallow
AWDE-4110	6M	0.242	50	20	24	fellow
	3 #8	0.277	50	21	24	Plue
AWDE-4113	8M	0.272	50	21	24	Blue
AWDE-4116	3 #7	0.311				
	10M	0.306	50	28	26	Black
	5/16" - 7 #10	0.306				
AWDE-4118	11.5M	0.330	50	28	26	Green
	3 #6	0.349		39		Yellow
AWDE-4119	12.5M	0.343	50		29	
	11/32" - 7 #9	0.343				
AWDE-4120	14M	0.363	50	52	31	Blue
	3 #5	0.392				
AWDE-4122	3/8" - 7 #8	0.385	50	54	32	Orange
	16M	0.386				
AWDE-4124	18M	0.417	25	37	34	Black
AWDE-4125	7/16" - 7 #7	0.433	25	39	36	Green
AWDE-4126	20M	0.444	10	21	37	Yellow
AWDE-4128	1/2" - 7 #6	0.486	10	22	39	Blue
AWDE-4130	25M	0.519	10	21	43	Red
AWDE-4131	7 #5	0.546	10	31	44	Yellow

Left-hand lay standard

NOTES:

¹Big-Grip Dead-End is recommended as an alternative product for guying multiple pole structures or metal towers associated with transmission construction.

² Refer to Hardware Considerations for acceptable fittings. Cabled Loop design furnished as standard for all sizes.

³ Rated holding strength is 100% of all grades of aluminum clad steel strand.

⁴ Consult PLP for sizes and stranding not shown.

Copper Clad Steel Strand

For use on all grades of Copper Clad Steel Strand⁴

	Stra		Weight per		Conductor Color Code	
Catalog Number	r Nominal Strand Size Mean Diameter		Units per Carton	Carton		Applied Length
	in	in		lb	in	
CDE-8100	2.2M	0.164	100	18	17	Orange
CDE-8102	3 #12	0.174	100	24	17	Red
CDE-8106	4M	0.209	100	31	18	White
CDE-3101	3 #10	0.220	100	43	20	Green
CDE 2102	3 #9	0.247	FO	22	21	Vallaur
CDE-3103	6M	0.237	50	23	21	Yellow
CDE-3104	6M3	0.258	50	22	22	White
CDE-3106	8M	0.276	FO	25	23	Dive
	3 #8	0.277	50			Blue
	10M	0.303				
CDE-3109	7 #10 - 5/16"	0.306	50	33	25	Red
	3 #7	0.311				
	7 #9 - 11/32"	0.343		46		
CDE-3112	12.5M	0.345	50		27	Green
	3 #6	0.349				
CDE-3113	14M	0.360	50	64	30	Blue
	7 #8 - 3/8"	0.385				
CDE-3115	16M	0.386	50	64	31	White
	3 #5	0.392				
CDE-3117	18M	0.414	25	45	34	Orange
CDE 2110	20M	0.438	25		25	Vallaur
CDE-3118	7 #7 - 7/16"	0.433	25	40	35	rellow
CDE-3121	7 #6 - 1/2"	0.486	25	65	39	Blue
CDE-3123	25M	0.525	10	37	43	Green
CDE-3124	7 #5 - 9/16"	0.546	10	37	44	Yellow

Left-hand lay standard

NOTES:

¹ Big-Grip Dead-End is recommended as an alternative product for guying multiple pole structures or metal towers associated with transmission construction.

² Refer to Hardware Considerations for acceptable fittings. Cabled Loop design furnished as standard for all sizes.

³ Refer to Design Considerations for material selection.

⁴ Rated holding strength is 100% of published rating for the strand.

⁵ Consult PLP for sizes and stranding not shown.

Stainless Steel Strand

For use on Type 302 and Type 430 Strand

		Strand		Weight per	Applied	Percent of			
Catalog Number	Size	Construction	Mean Diameter	Units per Carton	Carton	Length	Strands Rated Breaking	Conductor Color Code	
	in	Construction	in		lbs	in	Strength		
SDE-5101 7/32	7/22	3W	0.224	100	30	22	100%	Plue	
	1132	7W	0.216	100				Blue	
	1 / /.	3W	0.259	FO	24	24	100%	Vallow	
SDE-5102	1/4	7W	0.249	50	24	20	100%	fellow	
SDE-5103	9/32	7W	0.279	50	25	27	90%	Black	
	F/1/	3W	0.312	FO	(0	21	0.2%/		
SDE-5104	5/10	7W	0.312	50	40	31	73%	Orange	
	2/0	3W	0.356	50	/ 5	27	0.2%/	Green	
SDE-5105	3/8	7W	0.360	50	60	3/	83%	Green	

Stainless Steel Strand

For use on Type 316 Strand

		Strand			Weight per	Applied	Percent of		
Catalog Number	Size	Construction	Mean Diameter	Units per Carton	Carton	Length	Strands Rated Breaking	Conductor Color Code	
	in	construction	in		lbs	in	Strength		
SDE 4101	7/22	3W	0.224	100	20	22	100%	Disc	
SDE-0101	1132	7W	0.216	100	30	22	100 %	Blue	
	1//	3W	0.259	50	24	24	100%	Vallow	
SDE-0102	1/4	7W	0.249			20		fellow	
SDE-6103	9/32	7W	0.279	50	25	27	90%	Black	
CDF /10/*	F/1/	3W	0.312	FO		21	0001		
SDE-0104	5/10	7W	0.312	50	41	31	93%	Urange	
	2/0	3W	0.356	= 0	(5	27	07%	6	
SDE-6105	3/8	7W	0.360	50	00	3/	87%	Green	
SDE-6107	1/2	7W	0.500	10	52	53	85%	Blue	

*These dead-ends utilize the open helix design

Left-hand lay standard

NOTES:

¹Big-Grip Dead-End is recommended as an alternative product for guying multiple pole structures or metal towers associated with transmission construction.

² Refer to Hardware Considerations for acceptable fittings. Cabled Loop design furnished as standard for all sizes.

³ Refer to Design Considerations for material selection.

⁴ Consult PLP for sizes and stranding not shown.

End Sleeves

End Sleeves are designed to help ensure the proper application of GUY-GRIP Dead-Ends. They are made from galvanized steel and are compatible with GUY-GRIP Dead-Ends designed for EHS strand, bridge strand, and aluminum-clad steel cables.

End Sleeves

For use on Galvanized Steel GUY-GRIP® Dead-Ends

End S	leeve	GUY-GRI	Size		
Catalog Number	Carton Quantity	B-Coat	C-Coat	Carton Quantity	in
GC-65303	100	GDE-1102	GDE-2102	100	3/16
GC-65136	100	GDE-1104	GDE-2104	50	1/4
GC-65128	100	GDE-1106	GDE-2106	50	5/16
GC-65264	100	GDE-1107	GDE-2107	50	3/8
GC-65265	100	GDE-1108	GDE-2108	25	7/16
GC-65266	50	GDE-1109	GDE-2109	25	1/2

Catalog Number: GC-65303

Catalog Number: GC-65136

Catalog Number: GC-65265

Catalog Number: GC-65128

Catalog Number:

GC-65266

Catalog Number: GC-65264

See Tower & Antenna Catalog for additional information regarding End Sleeves.