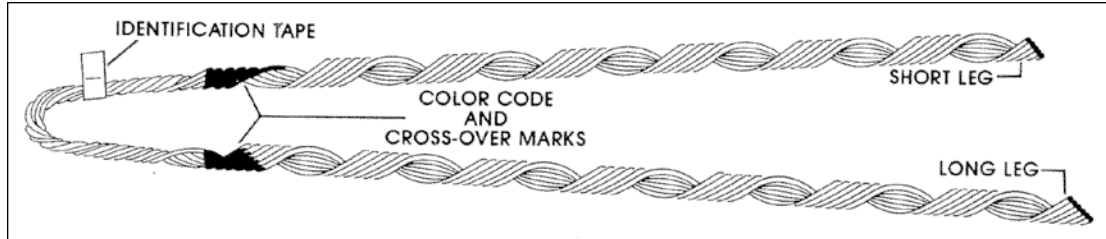


# Big-Grip Dead-end

## NOMENCLATURE



**Cross-over Marks:** Indicate starting point for application.

**Identification Tape:** Shows catalog number, nominal sizes.

**Color Code and Length:** Assist in identification of strand size, corresponding to tabular information appearing on catalog pages.

**Short Leg-Long Leg:** Identifies rods belonging to each leg, after application. During application, the short leg should be applied first.

## GENERAL INFORMATION

Big-Grip Dead-ends are designed for use on Transmission, Antenna, Communications, and other types of guyed structures that require use of large guy strand.

**Material Selection:** Big-Grip Dead-ends are made from material which is compatible with the strand they are designed to be used with **except where noted otherwise.**

**Rated Holding Strength (RHS):** Big-Grip Dead-ends are designed to develop the maximum loads published on the catalog pages only for those specific strands listed.

This product is intended for a single (one-time) use and for the specified application although it may be reapplied twice for retensioning within 90 days of initial installation. **CAUTION: DO NOT MODIFY OR REUSE THIS PRODUCT AFTER 90 DAYS UNDER ANY CIRCUMSTANCES.**

## INSTALLATION GUIDELINES

**Strand Compatibility:** Big-Grip Dead-ends should be used only on the size and strand for which they are designed. They must have the same lay as the strand to which they are applied.

Big-Grip Dead-ends should not be used on hardware which allows the strand to rotate or spin about its axis uncontrolled. Adjustable hardware, such as a turnbuckle, may be used as long as rotational movement of the strand is restricted. Consult PLP for additional information concerning adjustable hardware that can be used with Big-Grip Dead-ends.

When ordering Big-Grip Dead-ends make sure to specify the strand on which it is to be used and the strand lay.

When using types of strand and/or sizes of strand not mentioned in these catalog pages, consult PLP for compatible Big-Grip Dead-end designs.

Hardware used in conjunction with Big-Grip Dead-ends should have smooth contours, ample groove clearances, acceptable diameters and sufficient strength to minimize abrasion and fatigue of the loop area.

During installation and at all times, care should be taken to avoid gouging or damaging the corrosion preventive material of either the Big-Grip Dead-end or the strand.

**Big-Grip Dead-ends must not be used as tools, that is, come-alongs, pulling-in grips, etc.**

**Hardware:** Table 1, Figures 1-6 illustrate some of the possible hardware and their dimensions that may be used with Big-Grip Dead-ends:

Normally tools are not required to install Big-Grip Dead-ends, however a screwdriver may be used to split the legs into subsets. When splitting the legs, do not make more than two subsets per leg.

- (A) Figure 1 illustrates minimum and maximum acceptable seat diameters to which the Big-Grip Dead-end can be applied.
- (B) Figure 2 illustrates seat diameters and minimum groove diameters.
- (C) Figure 3 illustrates minimum hardware hole diameters.

For hardware and hardware dimensions to be used in conjunction with Big-Grip Dead-ends refer to Table 1, on the next page.

# Big-Grip Dead-end

## Thimble Recommendations

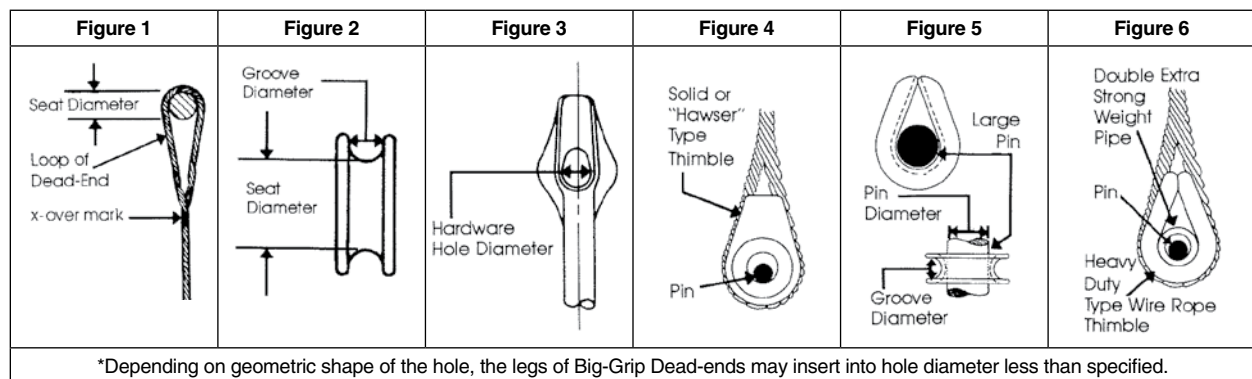
- (A) Only heavy-duty type wire rope thimbles or solid ("Hawser") type thimbles are recommended for use with Big-Grip Dead-ends. (Refer to Figures 4, 5, and 6.)
- (B) Heavy-duty type wire rope thimbles can collapse when guy tensions are high. In order to support and protect the loop area of the Big-Grip Dead-end special precautions are necessary.
- (C) In order to prevent collapse of the thimble, either a solid ("Hawser") type thimble (Figure 4), or a large pin inside the thimble (Figure 5), or a smaller pin (such as a shackle pin) plus double extra strong weight pipe or equivalent (Figure 6) is necessary. Double extra strong weight pipe, which has increased wall thickness and strength over schedule 160 pipe, does not have a schedule number but information can be obtained from a pipe supplier. Thimble strengths and dimensions can be obtained from a thimble supplier.

When in doubt about installations, hardware, or applications, contact your PLP representative.

PLP® suggests guy tensions be maintained at a minimum of approximately 10% of the Strand's Rated Breaking Strength (RBS).

**TABLE 1 - BIG-GRIP DEAD-END HARDWARE ACCESSORIES DIMENSIONS**  
(All Dimensions in Inches)

Dead-end Diameter Range	Nominal Strand Sizes	Fig. 1 & 2		Fig. 2	Fig. 3	Heavy Duty Thimble Size	Fig. 4 & 5		Fig. 6		
		Seat Dimensions		Minimum Groove Diameter	Minimum Hardware Hole Diameter*		Pin Diameters		Double Extra Strong Weight Pipe		
		Min.	Max.				Min.	Max.	Nominal Size	O.D.	I.D.
.475-.515	1/2	1-3/8	2-3/8	9/16	3/4	5/8	1	1-5/8	1-1/4	1.66	.896
.516-.570	9/16	1-1/2	2-5/8	5/8	15/16	5/8	1-1/8	1-5/8	1-1/4	1.66	.896
.571-.635	5/8	2	2-5/8	3/4	1	3/4	1-1/2	1-7/8	1-1/4	1.66	.896
.636-.772	3/4	2-1/2	3-1/8	7/8	1-3/16	7/8	1-7/8	2-1/8	1-1/2	1.9	1.1
.773-.868		2-1/2	3-5/8	1	1-3/8	1	2	2-3/8	2	2.375	1.503
.869-1.024	7/8 1	3	4-1/8	1	1-3/8	1-1/8 - 1-1/4	2-3/8	2-3/4	2	2.375	1.503
1.025-1.27		3-1/2	5-1/8	1-3/8	1-3/4	1-1/4 - 1-3/8	2-3/4	3-1/4	2-1/2	2.875	1.771
1.30		4	5-1/8	1-3/8	1-15/16	1-3/8 - 1-1/2	2-7/8	3-3/8	2-1/2	2.875	1.771





# Big-Grip Dead-end

## Galvanized Strand

For use on:  
**Extra High Strength**  
**Siemens Martin**  
**High Strength**  
**Utilities Grade**



Catalog Number	Size (Inches)	Strand Construction	Actual Diameter (Inches)	Units BG per carton	Wt./Lbs. BG per carton	Approx. Length (Inches)	Color Code	Rated Holding Strength (Lbs.)	(Percent of Strand's Rated Breaking Strength)
BG-2115	1/2	7W or 19W	.495 or .500	20	63	49	Blue	26,900	(100%)
BG-2116	9/16	7W or 19W	.564 or .565	10	48	55	Yellow	35,000	(100%)
BG-2111	5/8	7W or 19W	.621 or .625	10	65	64	Black	7W 42,400 19W 40,200	(100%) (100%)
BG-2112	3/4	19W	.750	5	54	76	Orange	58,300	(100%)
BG-MS-7023	7/8	19W	.885	5	76	90	Green	79,700	(100%)
BG-MS-7047	1	19W or 37W	1.000 or 1.001	3	76	125	Blue	19W 104,500 37W 92,430	(100%) (90%) +

Left-hand lay standard  
+ Down-Rated for 37 stranding (1994)

### EXPLANATORY NOTES:

- (1) For strand sizes smaller than 1/2", refer to the GUY-GRIP® Dead-end.
- (2) Reference table earlier in this section for acceptable fitting dimensions.
- (3) Cabled loop design is furnished as standard for all sizes.
- (4) Rated Holding Strengths (RHS) of the Big-Grip Dead-ends are listed for each strand and are expressed as a percent of the strand's Rated Breaking Strength (RBS).
- (5) C-Coat galvanized steel is standard for the Big-Grip Dead-ends used on 1/2", 9/16", and 5/8" strand.
- (6) B-Coat galvanized steel is used for the Big-Grip Dead-ends used on 3/4" strand. However, use of this material is subject to availability and other materials such as aluminum-covered steel may be substituted. Before ordering, consult Preformed™ as to material availability.
- (7) Big-Grip Dead-ends for 7/8" and 1" strand are made from aluminum-covered steel material. Galvanized steel material is not available. Before using, check to make sure that atmospheric conditions in the area they are to be used will not create a problem caused by two dissimilar metals.
- (8) Consult PLP® for sizes and stranding not shown.

# Big-Grip Dead-end

**For use on:  
Aluminum Clad Steel Strand**

Catalog Number	Strand Diameter Range (Inches)		Nominal Strand Size	Units BG per carton	Wt./Lbs. BG per carton	Approx. Length (Inches)	Color Code	Rated Holding Strength (Lbs.)	(Percent of Strand's Rated Breaking Strength)
	Min.	Max.							
BG-4168	.475	.494	7 # 6	25	60	42	Blue	22,730	(100%)
BG-4169	.495	.515	19 # 10	25	62	44	Green	27,190	(100%)
BG-4170	.516	.536	25M	20	66	47	Red	25,000	(100%)
BG-4171	.537	.555	7 # 5	20	67	48	Yellow	27,030	(100%)
BG-4172	.556	.570	-	15	68	49	Blue	33,330	
BG-4173	.571	.591	19 # 9	20	68	50	Orange	34,290	(100%)
BG-4174	.592	.612	-	15	50	50	Green	34,450	
BG-4175	.613	.635	-	10	49	54	Yellow	45,000	
BG-4176	.636	.661	19 # 8	10	50	56	Black	43,240	(100%)
BG-4177	.662	.686	19x.1363"	10	66	59	Blue	47,400	(100%)
BG-4178	.687	.712	-	10	68	61	Red	54,200	
BG-4179	.713	.741	19 # 7 37 # 10	10	70	63	Black	51,730 50,300	(100%) (95%)+
BG-4180	.742	.772	19x.1499"	5	41	71	Yellow	54,300	(100%)
<b>The following products are for the specific cables listed.</b>									
	Actual Diameters								
BG-4181	.792		19x.1584	5	50	80	Blue	59,000	
BG-4183	.801, .810, .827		37 # 9 19 # 6 19x.1660"	5	69	84	Green	63,430 61,700 63,000	(95%)+ (100%) (100%)
BG-4185	.849, .850, .866		37x.121" 19x.170" 19x.173" 37x.123"	5	68	87	Black	71,250 66,000 68,500 74,100	(95%)+ (100%) (100%) (95%)+
BG-4186	.899		37 # 8	5	76	91	Yellow	80,000	(95%)+
BG-4187	.910, .934		19 # 5 19x.1868"	5	78	93	Blue	73,350 75,000	(100%) (100%)
BG-4188	.981		37x.1404"	4	52	95	Red	90,250	(95%)+
BG-4189	1.01		37 # 7	4	85	108	Green	90,600	(90%)+
BG-4190	1.10		37x.1571"	3	84	117	Black	101,700	(90%)+
BG-4191	1.134		37 # 6	3	86	120	Yellow	108,200	(90%)+
BG-4192	1.27		37 # 5	2	82	151	Red	127,000	(89%)

Left-hand lay standard

+ Down-Rated for 37 stranding (1994)

#### EXPLANATORY NOTES:

- (1) For strand sizes smaller than 7#6, refer to the GUY-GRIP® Dead-end.
- (2) "Nominal Strand Size" indicates the strand which fits within the "Strand Diameter Range".
- (3) Reference table earlier in this section for acceptable fitting dimensions.
- (4) Cabled loop design is furnished as standard for all sizes.
- (5) Rated Holding Strengths (RHS) of the Big-Grip Dead-ends are listed for each strand and are expressed as a percent of the strand's Rated Breaking Strength (RBS).
- (6) Consult PLP® for sizes and stranding not shown.