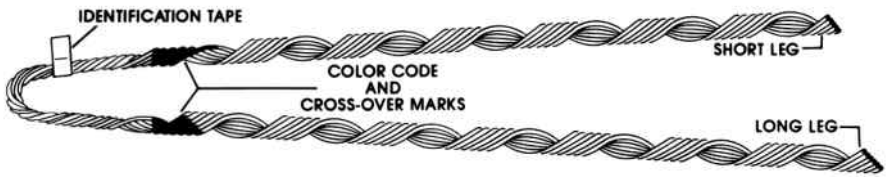


Big-Grip Dead-End



Cross-over Marks: Indicate starting point for application colour Code and Length: Assist in identification of strand size, corresponding to tabular information appearing on catalogue pages.

Identification Tape: Shows catalogue number, nominal sizes.

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

General Information

1. 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.
2. Where guy requirements on strand 16 mm and larger call for Vari-Grip Dead-ends refer to Section “VARI-GRIP”. Vari-Grip Dead-ends provide guy tension adjustability in one complete writ and may be used in conjunction with Big-Grip Dead-ends on the same guy.
3. **Rated Holding Strength (RHS):** Big-Grip Dead-ends are designed to develop the maximum loads published on the catalogue pages only for those specific strands listed.
4. **Material Selection:** Big-Grip Dead-ends are made from material which is compatible with the strand or cable they are designed to be used with except where noted otherwise.
5. Specially-designed FIBERLIGN® Big-Grip is available on request for use on optical fibre cable for undersea (marine) applications. This special design is manufactured from various material types depending upon certain design considerations that PLP will establish. Please refer to table 2 for current designs.

INDEX
T - 27

Big-Grip Dead-End

Installation Guidelines:

1. **Strand Compatibility:** Big-Grip Dead-ends should be used on the size and strand for which they are designed. They must have the same lay as the strand to which they are applied. 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 catalogue pages consult PREFORMED™ for compatible Big-Grip designs.

2. Big-Grip Dead-ends are precision devices that should be handled carefully. To prevent distortion and damage they should be stored in cartons until used and should be installed under the guidelines in this catalogue section and in the Application Procedure.
3. 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 or cable.
4. Big-Grip Dead-end must not be used as tools, that is, come alongs, pulling-in grips, etc.
5. 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.
6. Big-Grip Dead-ends may be removed and reapplied two times, if necessary, for the purpose of retentioning guys (without adjustable hardware).

If removal is necessary after a Big-Grip Dead-end has been installed for a period greater than three months, it must be replaced with a new Big-Grip Dead-end

7. For hardware and hardware dimension to be used in conjunction with Big-Grip Dead-ends refer to Table I, the “Big-Grip Dead-end hardware dimension” section.
8. 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 PREFORMED™ for additional information concerning adjustable hardware that can be used with Big-Grip Dead-ends.
9. Hardware used in conjunction with Big-Grip Dead-ends should have smooth contours, ample groove clearance, acceptable diameters and sufficient strength to minimize abrasion and fatigue of the loop area.

Big-Grip Dead-End

10. Table 1, Figure 1-6 illustrate some of the possible hardware and their dimensions that may be used with Big-Grip Dead-ends.

Figure 1 illustrates minimum and maximum acceptable seat diameters to which the Big-Grip Dead-ends can be applied

Figure 2 illustrates seat diameters and minimum groove diameters.

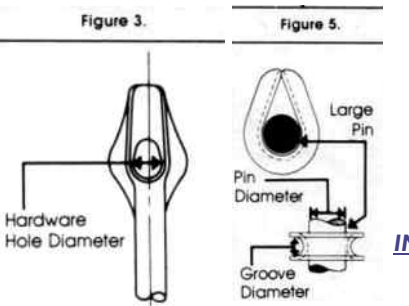
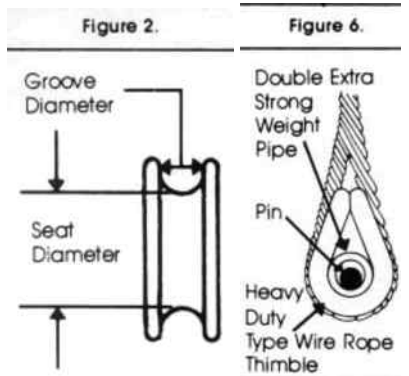
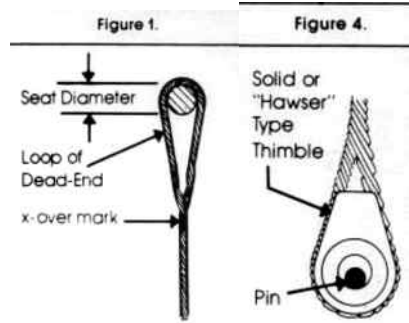
Figure 3 illustrates minimum hardware hole diameters.

11. 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).

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.

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.

12. When in doubt about installations, hardware, or applications, contact your PLP representative.
13. PREFORMED™ suggests guy tensions be maintained at a minimum of approximately 10% of the Strand's Rated Breaking Strength (RBS)



INDEX
T - 29

Big-Grip Dead-End

Table 1 – BIG-GRIP® DEAD-END HARDWARE ACCESSORIES DIMENSIONS

STRAND DIAMETER	NOMINAL STRAND	SEAT DIMENSIONS		MINIMUM GROOVE DIAMETER	MINIMUM HARDWARE HOLE DIAMETER	THIMBLE SIZE	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	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

Table 2 – BIG-GRIP® MECHANICAL PROPERTIES

CATALOGUE NO.	CABLE O.D mm	COLOUR CODE	MATERIAL OF BIG-GRIP®	APPROX. LENGTH OF FITTING mm	RODS PER SET	RATED HOLDING STRENGTH kN
GBG 14	14 (7/4.25)	Purple	HD Galv. Steel	1220	5	120
GBG 16	16 (19/3.15)	Brown	HD Galv. Steel	1300	6	170
GBG 18 - 300	18	Yellow	HD Galv. Steel	1830	5	300
GBG 20	20 (37/2.84 or 19/4.0)	Orange	HD Galv. Steel	1400	7	240
GBG 20 - 300	20 (37/2.84 or 19/4.0)	Orange	HD Galv. Steel	2030	5	300
**GBG 28	28	T.B.A	HD Galv. Steel	3080	8	240
**GBG 32	32	T.B.A	HD Galv. Steel	3080	8	240

INDEX
T - 30

** : These products are ex import from our International Associates



Copyright 2010 Preformed Line Products • All rights reserved
 Telephone: 033 397 5800 • Facsimile: 033 387 7094
 Email: plppmb@preformedsa.co.za
 Website: www.preformedsa.co.za

Big-Grip Dead-End

Table 3 – FIBERLIGN® BIG-GRIP FOR MARINE APPLICATION

CATALOGUE NO.	CABLE O.D mm	COLOUR CODE	MATERIAL OF DEAD-END	APPROX. LENGTH OF FITTING mm	RODS PER SET	RATED HOLDING STRENGTH kg
UMG 1718	SL 17 –ADSS 17 mm – 18 mm	Yellow	Galv. Steel	1990	6	20 000
UMG 2123	SL 17 –ADSS 21 mm – 23 mm	Orange	Galv. Steel	2380	7	20 000