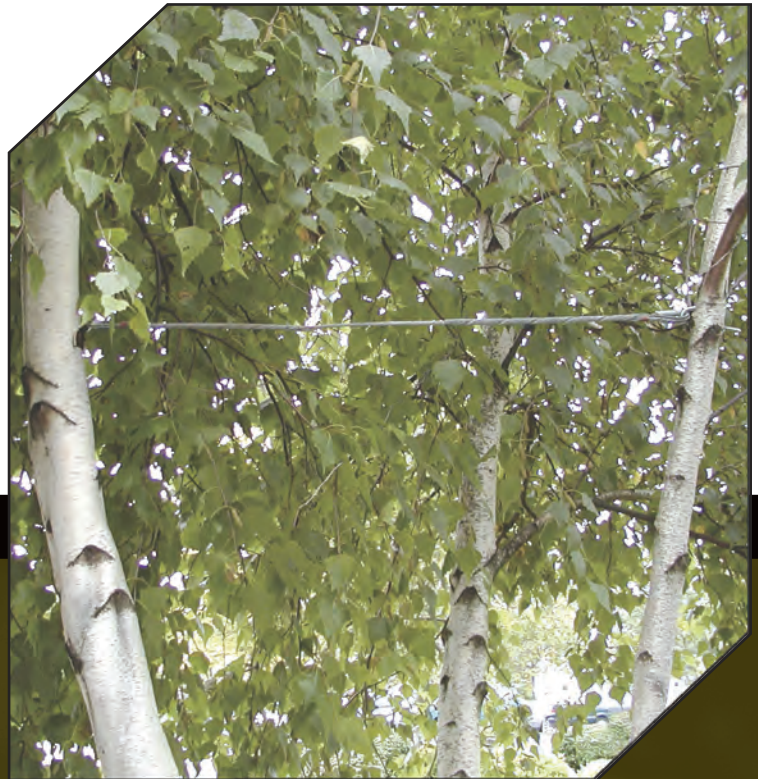




PREFORMED LINE PRODUCTS
The connection you can count on.

Easy, Attractive & Economical
Tree Cabling Installation

TREE-GRIP™ DEAD-END



COMMUNICATIONS



ENERGY



SPECIAL INDUSTRIES



SOLAR

TREE-GRIP™ Dead-ends - For use on extra high strength galvanized steel strand



Description

TREE-GRIP Dead-ends are designed to eliminate the costly labor and time consuming hassle of cable splicing. The factory-formed left hand lay helical legs of the TREE-GRIP Dead-ends wrap quickly around left hand lay extra-high strength (EHS) galvanized strands, eliminating the process of splicing common grade galvanized strand.

The end result is a labor saving application accomplishable in under 60 seconds.

Features

- Using lower cost, extra high strength galvanized strand (left hand lay) with the TREE-GRIP Dead-end is designed to offer strength comparability with larger sizes of common grade galvanized steel strand. This reduces strand expenditure and inventory. Refer to table below for strength comparisons.

- The TREE-GRIP Dead-end has a unique "THIMBLE-LOOP Design", created specifically for the Arborist industry. This design prevents the thimble from falling out during installation.
- The TREE-GRIP Dead-end is prefabricated to maintain a consistent aesthetic appearance with every installation.
- Preformed Line Products developed the helical concept for gripping strand that is a key component of the TREE-GRIP. The TREE-GRIP Dead-end's helical legs inside diameter is approximately 20% smaller than the outside diameter of the strands used. This holds the strand snugly and securely, providing a constant radial gripping force so that the published rated breaking strength (RBS) of the strand can be achieved.



TREE-GRIP Dead-end showing THIMBLE-LOOP insert

Extra High Strength Strand (EHS)		Common Grade Strand	
Published Rated Breaking Strength (RBS)		Published Rated Breaking Strength (RBS)	
Size		Size	
3/16"	3,990 lbs	3/16"	1,115 lbs
		1/4"	1,900 lbs
		5/16"	3200 lbs
1/4"	6,650 lbs	3/8"	4,250 lbs
		7/16"	5,200 lbs
5/16"	11,200 lbs	1/2"	7,400 lbs
		9/16"	9,600 lbs
3/8"	15,400 lbs	5/8"	11,600 lbs

TREE-GRIP Catalog Number	Strand Size	EHS RBS
TG-1250	3/16"	3,990 lbs
TG-1251	1/4"	6,650 lbs
TG-1252	5/16"	11,200 lbs
TG-1253	3/8"	15,400 lbs

Millions of Preformed Line Products Dead-ends are used by various industries and government agencies throughout the world. Lab-tested, field tested and performance proven Preformed products consistently maintain a standard of excellence unmatched in the industry.

Contact a PLP representative or distributor in your area for more detailed information.



Note: TREE-GRIP Dead-ends are designed to develop 100% of the published rated breaking strength of EHS strand. TREE-GRIP Dead-ends can also be used on common grade, Siemens-Martin, high strength and utilities grade strands.



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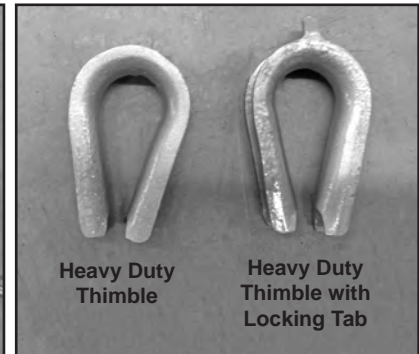
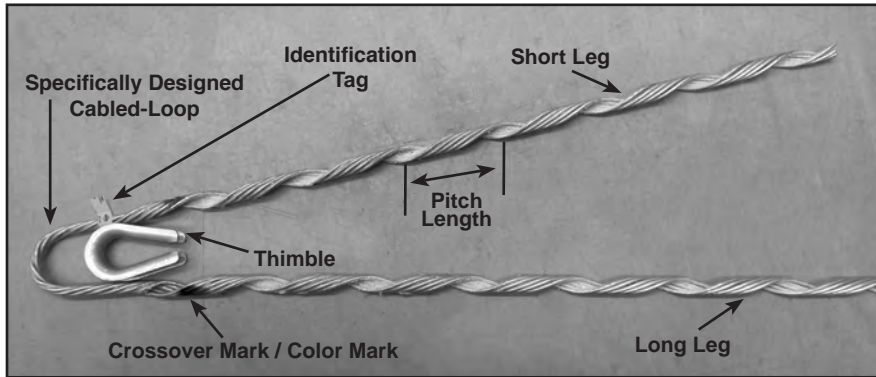
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TREE-GRIP™ Dead-end with Thimbles

Be sure to read and completely understand this procedure before applying product.
Be sure to select the proper size PREFORMED™ product before application.



TREE-GRIP Dead-end Catalog Number	Thimble Size	Extra High Strength Strand (EHS)	Heavy Duty Thimble	Heavy Duty Thimble with Locking Tab
TG-1250	3/16"	3/16"	GST-9036	GTC-9039
TG-1251	1/4"	1/4"	GST-9036	GTC-9039
TG-1252	5/16"	5/16"	GST-9037	GTC-9040
TG-1253	3/8"	3/8"	GST-9038	GTC-9041

WARNINGS

- For TREE-GRIP Dead-ends to function as designed, their length must not be reduced or altered.
- Extra precautions should be taken when it is anticipated that larger trees or heavy limbs will be subject to dynamic activity due to higher than normal wind loadings. Contact your local PLP representative for recommendations.

GENERAL

TREE-GRIP Dead-ends (Cat #'s TG-1250, TG-1251, TG-1252 and TG-1253) should be applied to extra high strength (EHS) or Common Grade left hand lay (LHL) galvanized steel strand sizes 3/16, 1/4, 5/16 and 3/8 inch respectively.

When installing "cabling" between two boughs or branches using TREE-GRIP Dead-ends, follow normal installation procedures.

Step #1

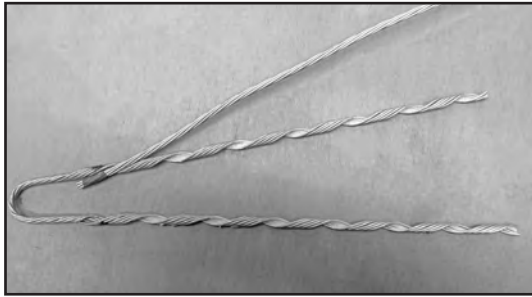
Match the correct (EHS) or Common Grade strand size needed for the job with the corresponding TREE-GRIP Dead-end making sure the strand is left hand lay. Then tape the area of the strand to be cut. This will prevent the individual wires from separating after the cable cutter cuts the strand.

NOTE: The PREFORMED Safety Guy Wire Dispenser, Catalog No. SGD-0700, is a perfect accessory when carrying and working with extra high strength strand.

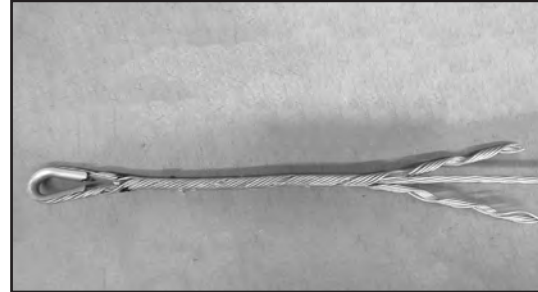


Step #2

Lay the taped end of the cable in the TREE-GRIP® Dead-end's short leg, slightly above the cross-over mark.

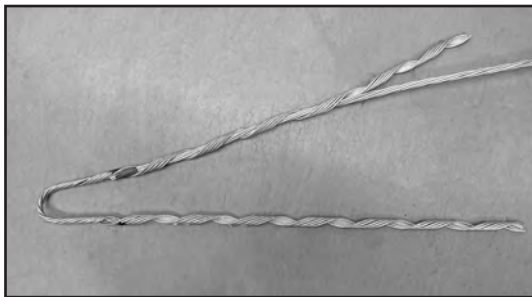
**Step #4**

Insert the correct thimble size in the TREE-GRIP Dead-end's cabled-loop and cross the longer leg with the already completed shorter leg at the cross-over mark. The thimble is now secured and cannot fall out.

**Step #3**

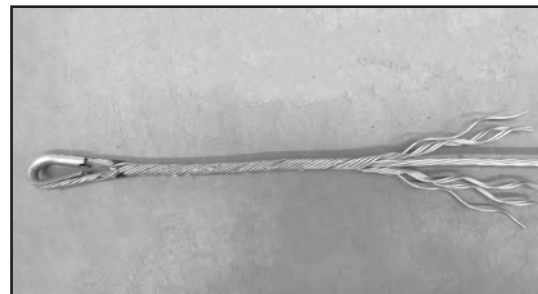
Once the cable has been positioned correctly, continue to wrap the short leg of the TREE-GRIP Dead-end around the EHS strand within two wraps (pitch lengths) of completion.

During the wrapping procedure, be sure to pull the legs away from the strand. This will facilitate the ease of application.

**Step #5**

Continue wrapping the long leg around the strand within two pitch lengths of completion.

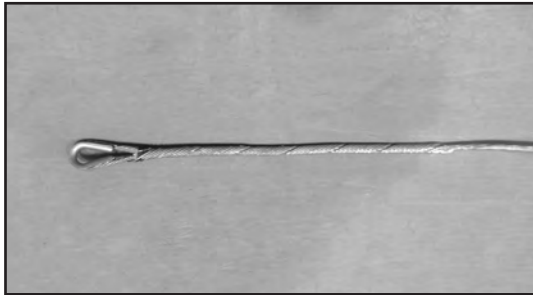
NOTE: To facilitate the ease of application of the last two pitch lengths of the legs of the TREE-GRIP Dead-end, split each leg into two groups (subsets) and wrap each subset individually to completion.



PLP TIP: Be sure all leg ends are snapped properly on the strand. If not applied correctly, the rods may unwind from the strand.

Step #6

Completed Application – If less tension is desired after the initial installation (within 90 days), follow this procedure: Unwrap both legs of the TREE-GRIP Dead-end within 2 pitch lengths of the cross-over mark and allow the strand to slowly slide through the legs until the desired tension is achieved. Then simply wrap both legs back on strand to completion.

**Installation Guidelines**

TREE-GRIP Dead-ends are precision devices. To ensure correct assembly, they should be handled carefully. To prevent distortion or damage, they should be installed as illustrated.

TREE-GRIP Dead-ends should be stored in cartons under cover – preferably shelf storage – until used.

TREE-GRIP Dead-ends may be removed and reapplied three times. If necessary, on new construction, for the purpose of adjusting cabling installation.

TREE-GRIP Dead-ends should not be reused after original installation.

TREE-GRIP Dead-ends should be used only on the size strand for which they are designed (see table on Page 1).

TREE-GRIP Dead-ends should not be used as tools; that is, come-alongs, pulling-in grips, etc.

TREE-GRIP Dead-ends should be applied only to the thimble size designated, see table on Page 1. (They are not to be applied over drive hooks, eye bolts, eye nuts, etc. without a thimble).

TREE-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.

TREE-GRIP Dead-ends should be used with compatible strand and fittings.

Lay direction of both the TREE-GRIP Dead-ends and the strand should be left hand lay.

TREE-GRIP Dead-ends should not be used as false dead-ends.

If in doubt about fittings or application, contact your local PLP representative for an engineering recommendation.

SAFETY CONSIDERATIONS

This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual. **FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN PERSONAL INJURY OR DEATH.**

This product may be removed and reinstalled during the initial installation if it is in good condition. After extended service life, it is recommended the product not be reused once removed from service.

Do not modify this product under any circumstances.

This product is intended for use by trained technicians only. **This product should not be used by anyone who is not familiar with, and not trained to use it.**

When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact.

For proper performance and personal safety, be sure to select the proper size PREFORMED product before application.

PREFORMED products are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.



PREFORMED LINE PRODUCTS

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