



PREFORMED LINE PRODUCTS

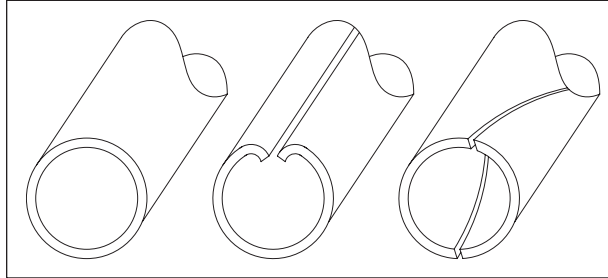
Section 18 – Distribution (Overhead): Protective Guards & Markers

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Guy Markers

PREFORMED™ Guy Markers are used for identifying Down Guys or other wire and cable installations where anchoring devices are exposed to pedestrian and/or vehicular traffic.



Profile Options

PREFORMED™ Guy Markers are available in three basic profiles:

- Full Round – 1-1/2" and 1-1/4" OD (Outer Diameter)
- "B" Profile "heart shape" – 1-1/2" effective OD
- Two Piece Spiral Round – 1-1/2" OD, helically slit to create two halves

Material

Guy Markers are available in PVC and Polyethylene materials as shown in tables. All materials employ UV inhibitors to enhance life span performance.

Color

Guy Markers are available in yellow, gray, and orange. For other available colors and combinations of colors consult PLP for availability.

Reflective tape is available as an option. If desired configuration is not shown in catalog tables. Contact PLP for availability.

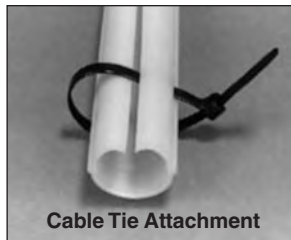
Attachment Devices

PREFORMED™ Guy Markers utilize five basic attachment devices. These are:

- Cable Tie
- LOOP-LOCK® Pin
- Integral Helical Pigtail (used in conjunction with Short Lock Strap)
- Mounted Cable Tie
- Plastic Clamp (see next page)

Cable Tie:

Supplied as an alternate to the LOOP-LOCK Pin. Helps deter vandalism.



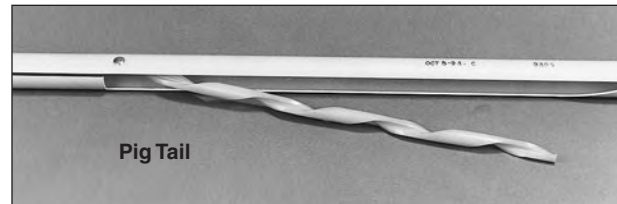
Cable Tie Attachment

LOOP-LOCK® Pin:

A unique, one-way method that applies through the marker's tube and loop of a GUY-GRIP® Dead-end. Once applied, the tube is "locked" onto the Dead-end and cannot be removed easily by vandals. Removal and reinstallation of the marker by authorized personnel is possible with a new pin, which can be supplied separately.



LOOP LOCK® Pin



Pig Tail

Integral Pigtail:

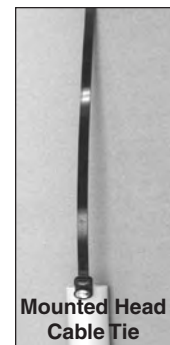
Attached to the inside of the marker tube and wraps on to secure it to the strand. Generally fits a strand range of 3/16" – 1/2" diameters and provides a unique one-way slip down motion for ease of installation. The installed pigtail resists upward movement. The pigtail is made from specially formulated plastic designed to provide high strength, tear resistance, and no corrosion.

Lock Strap and Mounted Cable Tie:

The short lock strap is primarily used with the pigtail device and helps deter vandalism. The long lock strap is used on Dead-end devices that restrict the use of the LOOP-LOCK® Pin.



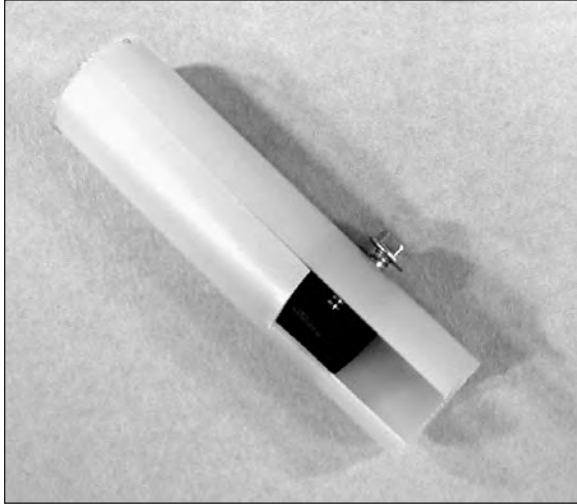
Short Lock Strap



Mounted Head Cable Tie

Guy Markers

Attachment Devices Continued



Note: Photo shows marker cut away to show clamp

Plastic Clamp:

An addition to PLP's traditional attachment devices the innovative plastic clamp is completely internal to the marker tube. The clamp is held in place and tightened by the same bolt which is roughly 32" from the top of the Guy Marker. The Clamp provides a positive locking attachment to the strand, without strand damage making it difficult for vandals to remove.

Currently supplied on the PG-5800 and PG-5810.

For alternate attachment devices on any profile, availability of different tube sizes, or tube lengths other than eight (8) feet, contact Preformed Line Products.



Two Piece Spiral Round Markers:

Designed to provide increased visibility for many guying or cable applications. Can provide coverage from the ground line, around fittings and above normal reach depending upon installation.

The addition of a third Helical section can provide up to 360° coverage for diameters over 1". This method may require special application techniques as outlined in the application procedure.

Limited coverage is possible for diameters over 1-5/8" or over large, non-circular fittings. Consult the application procedure for special techniques.

Catalog Number	Length		Color	Material	Tube OD		Attachment Type	Carton Information	
	Feet	Meters			Inches	(mm)		Units	Wt./Lbs.
PG-5750	8	2.4	Orange/ Yellow	Poly	1-1/4	32	2-CT	25	30
PG-5752	8	2.4	Orange	Poly	1-1/4	32	2-CT	25	30



Guy Markers

Standard Guy Markers



Attachment Devices

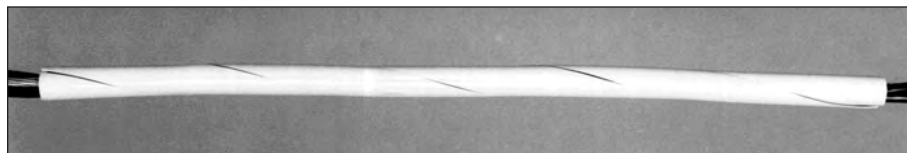
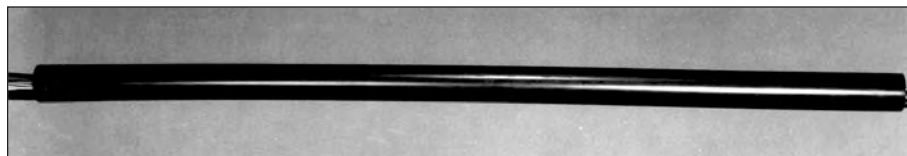
PT	Helical Pigtail
SLS	Short Lock Strap - used in conjunction with the Helical Pigtail
MCT	Mounted Cable Tie
LLP	LOOP-LOCK™ Pin
CT	Cable Tie
CMP	Plastic Clamp

Catalog Number	Length (m)	Color	Material	Tube Profile	Tube OD (mm)	Attachment Type	Carton Information	
							Units	Wt./Lbs.
PG-5414	8' (2.4)	Yellow	Poly	Round	1-1/4" (32)	LLP	25	32
PG-5411	8' (2.4)	Gray	Poly	Round	1-1/4" (32)	LLP	25	32
PG-MS-4988	8' (2.4)	Yellow	Poly	Round	1-1/4" (32)	None	25	32
PG-MS-3830	8' (2.4)	Orange	Poly	Round	1-1/4" (32)	None	25	32
PG-MS-9838	8' (2.4)	Yellow	Poly	Round	1-1/4" (32)	MCT	25	32
PG-5800	8' (2.4)	Yellow	Poly	Round	1-1/2" (38)	CMP	25	34
PG-5810	8' (2.4)	Orange	Poly	Round	1-1/2" (38)	CMP	25	34
PG-5718	8' (2.4)	Yellow	Poly	Round	1-1/2" (38)	PT/SLS	25	39
PG-5718-P	8' (2.4)	Yellow	Poly	"B"	1-1/2" (38)	PT/CT	25	35
PG-5518	8' (2.4)	Yellow	PVC	Round	1-1/2" (38)	PT/SLS	25	33
PG-MS-3921	8' (2.4)	Yellow	Poly	Round	1-1/2" (38)	MCT	25	33
PG-MS-4072	8' (2.4)	Yellow	Poly	"B"	1-1/2" (38)	MCT	25	35
PG-5405	8' (2.4)	Yellow	Poly	Round	1-1/2" (38)	LLP	25	36
PG-5423	8' (2.4)	Yellow	Poly	"B"	1-1/2" (38)	LLP	25	36
PG-5462	8' (2.4)	Yellow	Poly	"B"	1-1/2" (38)	2 LLP	25	33
RPG-5618	8' (2.4)	Yellow/Reflective Tape	PVC	Round	1-1/2" (38)	PT/SLS	25	33
RPG-MS-12030	8' (2.4)	Yellow/Reflective Tape	Poly	"B"	1-1/2" (38)	MCT	25	36
RPG-MS-10469	8' (2.4)	Yellow/Reflective Tape	Poly	"B"	1-1/2" (38)	LLP	25	36
PG-5738	8' (2.4)	Orange	Poly	Round	1-1/2" (38)	PT/SLS	25	34
PG-5708	8' (2.4)	Gray	Poly	Round	1-1/2" (38)	PT/SLS	25	34
PG-5708-P	8' (2.4)	Gray	Poly	"B"	1-1/2" (38)	PT/CT	25	36
PG-MS-7578	8' (2.4)	Yellow	Poly	Round	2" (51)	PT/SLS	25	49

Note: For different lengths, attachments, and/or the addition of reflective tape, contact your PLP representative or Preformed Line Products.

Tree Guard

NOMENCLATURE



Length: Standard lengths are shown in separate tables on the catalog pages.

Wall Thickness: Provides a barrier, preventing physical contact with the conductor or its covering.

Color: PVC = Light Gray
Polyethylene = Black

GENERAL RECOMMENDATIONS

PROTECTION. Tree Guards are designed to protect bare conductors and fabric or plastic covered cables against mechanical abrasion caused by tree limbs or other obstructions.

MATERIAL. Tree Guards are manufactured from a high-impact polyvinyl chloride or polyethylene selected because of these materials resistance to extreme abrasion and strong weathering endurance. Although the plastics have high dielectric properties, Tree Guards are not designed for insulation purposes.

LENGTHS. PVC Tree Guards come in 3 ft. and 6 ft. lengths and Polyethylene Tree Guards come in 8 inch and 6 ft. lengths. Tree Guards can be butted together with other Tree guards of like materials to achieve a combination of lengths.

SIZE SELECTION. Tree Guard size is determined by the effective diameter of single or grouped conductors. To select the proper size for two or more conductors, arrange the cables to provide a bundle with the smallest possible diameter. The diameter of this bundle, when located within a range on the catalog page, will provide the proper size Tree Guard.



SAFETY CONSIDERATIONS

1. This product may be reused if in good condition.
2. This product is intended for use by trained craftspeople only. This product **SHOULD NOT BE USED** by anyone who is not familiar with and trained in the use of it.
3. When working in the area of energized lines with this product, **EXTRA CARE** should be taken to prevent accidental electrical contact.
4. For **PROPER PERFORMANCE AND PERSONAL SAFETY** be sure to select the proper size **PREFORMED™** Tree Guards before application.
5. **PREFORMED™** Tree Guards are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.

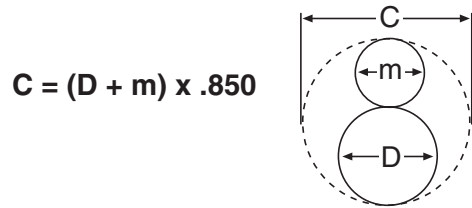


Tree Guard

GENERAL RECOMMENDATIONS

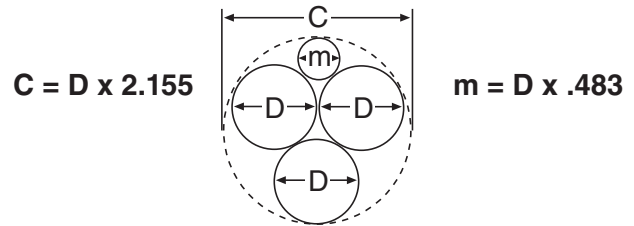
Size Selection: In selecting the proper size PVC Tree Guard it is necessary to determine the smallest circumscribing circle that will enclose the messenger and cables.

For grouping only one cable with messenger, add the diameters and multiply by a factor of .850.



$$C = (D + m) \times .850$$

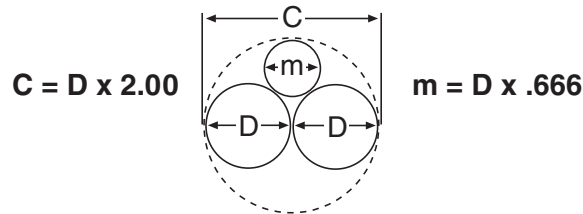
For grouping three equal diameter cables, multiply the diameter of one cable times 2.155. Then to find the diameter of the maximum messenger that will fit in the interstices of the cables multiply the diameter of one cable times .483.



$$C = D \times 2.155$$

$$m = D \times .483$$

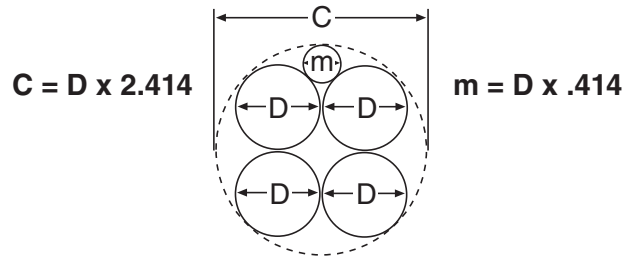
For grouping two equal diameter cables, multiply the diameter of one cable times 2.00. Then find the diameter of the maximum messenger that will fit in the interstices of the cables, multiply the diameter of one cable times .666.



$$C = D \times 2.00$$

$$m = D \times .666$$

For grouping four equal diameter cables; multiply the diameter of one cable times 2.414. Then to find the diameter of the maximum messenger that will fit in the interstices of the cables multiply the diameter of one cable times .414.



$$C = D \times 2.414$$

$$m = D \times .414$$

For grouping unequal diameter cables or messengers too large to fit into the interstices above, the minimum diameter grouping can best be determined by a graphic layout scale.

Tree Guard

6 Ft. Length – PVC

For use on:
All Cables and Conductors



Catalog Number	Diameter Range (Inches)		Units	Weight (Lbs.)	Length (Feet)	Wall Thickness (Inches)
	Min.	Max.	Per Carton			
PTG-0101	.238	.266	100	24	6	1/16
PTG-0104	.267	.296	100	26	6	1/16
PTG-0107	.297	.328	100	28	6	1/16
PTG-0110	.329	.358	100	30	6	1/16
PTG-0113	.359	.389	100	32	6	1/16
PTG-0116	.390	.421	100	34	6	1/16
PTG-0119	.422	.453	100	36	6	1/16
PTG-0122	.454	.478	75	30	6	1/16
PTG-0125	.479	.511	75	32	6	1/16
PTG-0128	.512	.542	75	32	6	1/16
PTG-0131	.543	.568	75	44	6	5/64
PTG-0134	.569	.598	75	46	6	5/64
PTG-0137	.599	.641	75	48	6	5/64
PTG-0140	.642	.706	75	52	6	5/64
PTG-0143	.707	.762	50	46	6	3/32
PTG-0146	.763	.820	50	48	6	3/32
PTG-0149	.821	.882	50	52	6	3/32
PTG-0152	.883	.947	50	56	6	3/32
PTG-0155	.948	1.010	50	58	6	3/32
PTG-0158	1.011	1.074	50	62	6	3/32
PTG-0161	1.075	1.131	25	66	6	3/32
PTG-0164	1.132	1.194	25	36	6	3/32
PTG-0167	1.195	1.255	25	36	6	3/32
PTG-0170	1.256	1.328	25	38	6	3/32
PTG-0173	1.329	1.450	25	42	6	3/32
PTG-0176	1.451	1.578	25	46	6	3/32
PTG-0179	1.579	1.705	10	48	6	3/32
PTG-0182	1.706	1.832	10	50	6	3/32

EXPLANATORY NOTES:

- (1) Nominal Size indicates one of various single or grouped conductors within each range. To select the proper size for two or more conductors not shown, refer to "General Recommendations," first page in this section.



Tree Guard

3 Ft. Length – PVC

For use on:
All Cables and Conductors



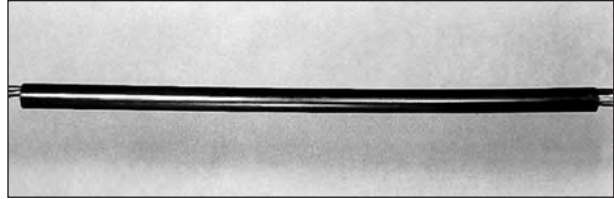
Catalog Number	Diameter Range (Inches)		Units	Weight (Lbs.) Per Carton	Length (Feet)	Wall Thickness (Inches)
	Min.	Max.				
PTG-0100	.238	.266	100	12	3	1/16
PTG-0103	.267	.296	100	14	3	1/16
PTG-0106	.297	.328	100	15	3	1/16
PTG-0109	.329	.358	100	16	3	1/16
PTG-0112	.359	.389	100	18	3	1/16
PTG-0115	.390	.421	100	18	3	1/16
PTG-0118	.422	.453	100	20	3	1/16
PTG-0121	.454	.478	100	20	3	1/16
PTG-0124	.479	.511	100	22	3	1/16
PTG-0127	.512	.542	100	24	3	1/16
PTG-0130	.543	.568	100	30	3	5/64
PTG-0133	.569	.598	100	30	3	5/64
PTG-0136	.599	.641	100	32	3	5/64
PTG-0139	.642	.706	100	34	3	5/64
PTG-0142	.707	.762	100	46	3	3/32
PTG-0145	.763	.820	100	50	3	3/32
PTG-0148	.821	.882	100	52	3	3/32
PTG-0151	.883	.947	100	56	3	3/32
PTG-0154	.948	1.010	100	58	3	3/32

EXPLANATORY NOTES:

- (1) Nominal Size indicates one of various single or grouped conductors within each range. To select the proper size for two or more conductors not shown, refer to "General Recommendations," first page in this section.

Tree Guard – Polyethylene

For use on:
All Cables and Conductors

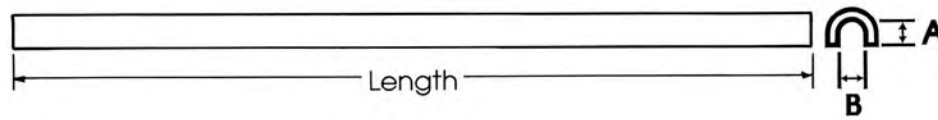
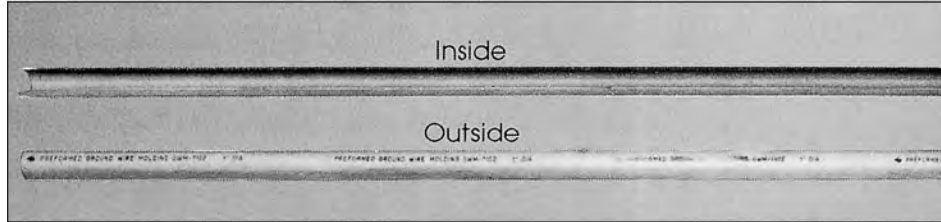


Catalog Number	Inside Diameter (Inches)	Diameter Range (Inches)		Length	Units	Wt./Lbs.
		Min.	Max.		Per Carton	
PTG-0200	.5	.238	.500	8 in.	1,000	35
PTG-0201		.238	.500	6 ft.	150	46
PTG-0202	1	.501	1.00	8 in.	500	34
PTG-0203		.501	1.00	6 ft.	60	39
PTG-0204	1.5	1.01	1.50	8 in.	250	30
PTG-0205		1.01	1.50	6 ft.	25	25
PTG-0206	2	1.51	2.00	8 in.	175	25
PTG-0207		1.51	2.00	6 ft.	20	26
PTG-0208	3	2.01	3.00	6 ft.	12	25



Ground Wire Molding

NOMENCLATURE



Available in three nominal widths: 1/2", 3/4" & 1"



GENERAL INFORMATION

Intended Use: PREFORMED LINE PRODUCTS Ground Wire Molding protects and covers surface-mounted cable, wire, or conductor.

Color: Soft gray coloring provides a natural blend for industrial and urban situations.

Material: Corrosion resistant, lightweight polyethylene provides retention of good physical characteristics over temperature ranges and exposure to ultraviolet radiation. It will provide many years of protection and is easily handled and stored.

INSTALLATION GUIDELINES

Standard lineman's tools (hammer & staples) are all that is required for quick and easy application.

When installing the staple, drive the staple in until it comes in contact with the exterior of the Ground Wire Molding. If the staple is driven in too far, the Ground Wire Molding will be deformed and can pull away from the pole.

When in doubt about particular application, consult your PREFORMED™ Sales Representative or Preformed Line Products.

SAFETY CONSIDERATIONS

1. This product may be reused, if in good condition.
2. This product is intended for use by trained craftspeople only. This product SHOULD NOT BE USED by anyone who is not familiar with and trained in the use of it.
3. When working in the area of energized lines with this product, EXTRA CARE should be taken to prevent accidental electrical contact.
4. For PROPER PERFORMANCE AND PERSONAL SAFETY be sure to select the proper size PREFORMED Ground Wire Molding before application.
5. PREFORMED Ground Wire Moldings are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.

Catalog Number	Length In Feet	Units Carton	Color	Dimensions A&B (In.)
GWM-7100	8	125	Gray - Poly	1/2
GWM-7101	8	100	Gray - Poly	3/4
GWM-7102	8	50	Gray - Poly	1
GWM-7200	8	125	Black - Poly	1/2
GWM-7201	8	100	Black - Poly	3/4
GWM-7202	8	50	Black - Poly	1