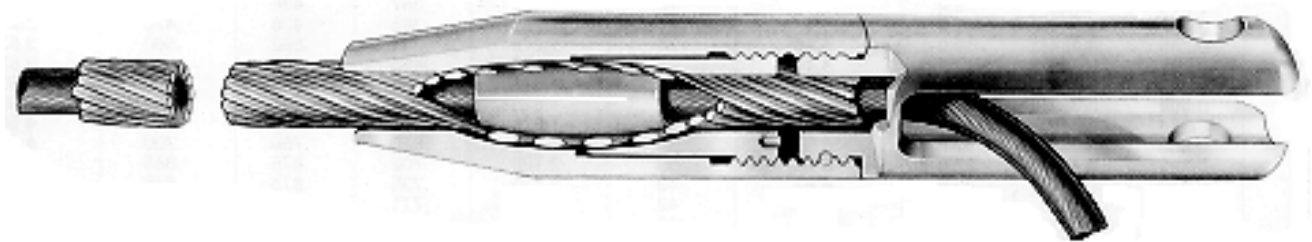


EVERGRIP™ Termination

- *Use On Wire Rope & E/M Cable*
- *Fast, Field Installable, Immediate Use*
- *Full Strength*



EASY TO USE

No cable preparation, special training or tools required. To install, simply slip the housing down the cable and out of the way. Slide the insert in place. Then wrap the helical rods over the insert and cable. Move the housing back and screw the retainer into place to seat the helical rods and insert. Secure the whole assembly by screwing the clevis adaptor into place.

FULL STRENGTH

Designed to hold 100 percent of the cable's rated breaking strength. Applied over the outer armor strength members, the EVERGRIP™ Termination protects against fatigue of your cable system under severe dynamic conditions.

PROVEN PERFORMANCE

Exhaustive tests performed by our laboratory and experience at sea in

oceanographic, military, offshore petroleum and ROV systems proves the EVERGRIP™ Termination excels in reliability.

UNIQUE

The complete cable passes through the EVERGRIP™ Termination intact. Helical gripping rods hold the cable with low compression and friction forces distributed along the length of the rods. This unique helical concept eliminates concentrated stresses in the cable at the termination, reducing the potential for failure. Within the termination, tensile load transfers from the helical rods to the housing. A slotted insert locks the housing to the helical rods providing a sure and reliable marine termination.

Retermination kits are available which make reuse of the EVERGRIP™ Termination inexpensive and keeps downtime system at a minimum.

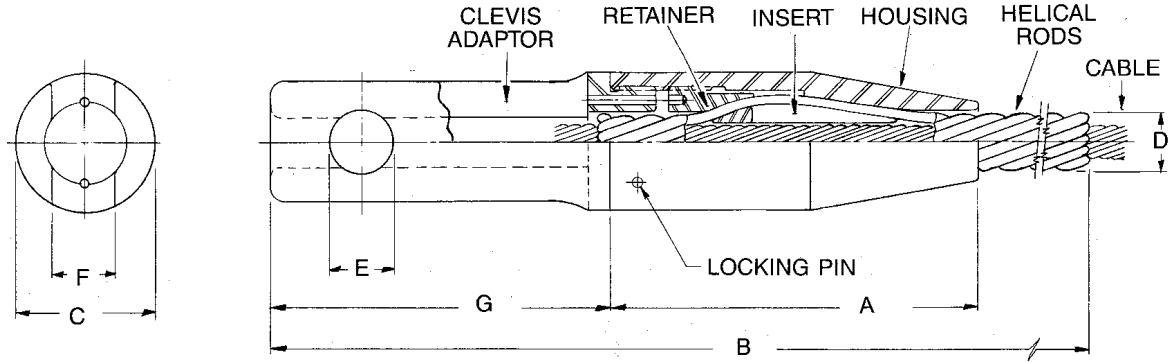
CORROSION RESISTANT

Standard kits are furnished in galvanized steel. Upon special request, the EVERGRIP™ Termination is available in a variety of corrosion resistant and non-magnetic materials such as 316 stainless steel, MONEL® and NITRONIC® 50.

ADDITIONAL PROTECTION AVAILABLE

For extended cable protection under conditions of severe bending, an EVERFLEX™ Bending Strain Relief can be attached at the nose of the EVERGRIP™ Termination. The EVERFLEX™ Bending Strain Relief limits bending, consequently controlling stresses at the rigid termination point.

EVERGRIP™ Termination



EVERGRIP™ Termination Data & Dimensions

Model No.	Dash No.	Recommended Cable Range	Dash No.	Recommended Cable Range	Rated Holding Strength (K-lbs)	Body Length w/o Adaptor (A)	Total Length (B)	Body Diameter (C)	Diameter Over Rods (D)	Pin Diameter (E)	Clevis Slot Width (F)	Clevis Adaptor Length (G)
		Min. – Max.		Min. – Max.								
114	-2	0.194 - 0.201	-3	0.202 - 0.209	6.4	3.47	20	1.125	.350	.438	.470	3.40
115	-2	0.210 - 0.217	-3	0.218 - 0.226	6.4	3.47	21	1.125	.367	.438	.470	3.40
116	-2	0.227 - 0.235	-3	0.236 - 0.244	7.0	3.47	22	1.125	.385	.438	.470	3.40
117	-2	0.245 - 0.254	-3	0.255 - 0.264	9.3	4.46	25	1.375	.444	.562	.560	4.23
118	-2	0.265 - 0.274	-3	0.275 - 0.285	9.3	4.46	27	1.375	.465	.562	.560	4.23
119	-2	0.286 - 0.296	-3	0.297 - 0.308	10.2	4.46	28	1.375	.488	.562	.560	4.23
120	-2	0.309 - 0.320	-3	0.321 - 0.333	14.4	5.57	32	1.875	.565	.750	.700	5.36
121	-2	0.334 - 0.346	-3	0.347 - 0.359	16.0	5.57	34	1.875	.571	.750	.700	5.36
122	-2	0.360 - 0.373	-3	0.374 - 0.388	17.6	5.57	35	1.875	.620	.750	.700	5.36
123	-2	0.389 - 0.403	-3	0.404 - 0.418	22.6	6.87	40	2.125	.702	.875	.845	6.60
124	-2	0.419 - 0.434	-3	0.435 - 0.451	22.6	6.87	41	2.125	.735	.875	.845	6.60
125	-2	0.452 - 0.469	-3	0.470 - 0.487	24.9	6.87	43	2.125	.771	.875	.845	6.60
126	-2	0.488 - 0.506	-3	0.507 - 0.525	35.2	8.45	50	2.625	.879	1.000	1.105	8.00
127	-2	0.526 - 0.540	-3	0.541 - 0.566	35.2	8.45	52	2.625	.920	1.000	1.105	8.00
128	-2	0.567 - 0.588	-3	0.589 - 0.611	38.7	8.45	53	2.625	.965	1.000	1.105	8.00
129	-2	0.612 - 0.634	-3	0.635 - 0.658	45.3	10.32	60	3.375	1.103	1.250	1.365	10.10
130	-2	0.659 - 0.684	-3	0.685 - 0.710	49.9	10.32	63	3.375	1.128	1.250	1.365	10.10
131	-2	0.711 - 0.737	-3	0.738 - 0.765	49.9	10.32	66	3.375	1.189	1.250	1.365	10.10
132	-2	0.766 - 0.794	-3	0.795 - 0.824	68.7	12.55	76	4.000	1.312	1.500	1.625	12.50
133	-2	0.825 - 0.856	-3	0.857 - 0.888	68.7	12.55	78	4.000	1.376	1.500	1.625	12.50
134	-2	0.889 - 0.922	-3	0.923 - 0.957	75.0	12.55	82	4.000	1.445	1.500	1.625	12.50
135	-2	0.958 - 0.994	-3	0.995 - 1.032	81.2	15.13	90	4.500	1.520	1.750	1.875	15.10
136	-2	1.033 - 1.071	-3	1.072 - 1.111	87.5	15.13	93	4.500	1.599	1.750	1.875	15.10
137	-2	1.112 - 1.154	-3	1.155 - 1.197	87.5	15.13	98	4.500	1.685	1.750	1.875	15.10

Ordering example for .376 cable:

RHS= Rated Holding Strength

Metric Conversion:

inches x 25.40 = mm
K-lbs x 4.448 = KN

IMPORTANT ORDERING INFORMATION

EVERGRIP™ Terminations are built to close tolerances. To insure satisfaction, specify rope or cable diameter, construction or type, rated breaking strength and lay direction of outer strength members. For assistance in selecting correct products contact PMI Industries, Inc. or our sales representatives.



PMI INDUSTRIES, INC.

5300 St. Clair Avenue • Cleveland, Ohio 44103 • Phone (216) 881-4914 • Fax (216) 881-4920



APPLICATION PROCEDURES

EVERGRIP™ T E R M I N A T I O N

INSTALLATION GUIDELINES

1. Be sure to read and completely understand this procedure before applying this product.
2. PMI helical products are precision formed devices that should be handled carefully. To minimize grit loss, distortion, or damage, they should be safely stored until used.
3. The EVERGRIP™ Termination is designed for use on jacketed and un-jacketed steel armored cables and wire ropes. When applied on un-jacketed steel armored cables, the EVERGRIP™ Rods must have the same lay direction as the cable armor. CAUTION: Never use an EVERGRIP™ Termination with an opposite lay direction. For other uses, including synthetic fiber cables and ropes, please contact PMI Industries, Inc.
4. The EVERGRIP™ Termination when applied to un-jacketed steel armored cables is designed to hold (in most applications) 100% of the cable's rated break strength. For assistance in determining the load rating for this product or its performance on jacketed cables, contact PMI Industries, Inc.
5. The EVERGRIP™ Rods may be removed and re-installed only once, upon initial installation and prior to any loading. If removal of the EVERGRIP™ Termination is necessary after it has been installed the rods and the insert must be replaced. Retermination kits are available.

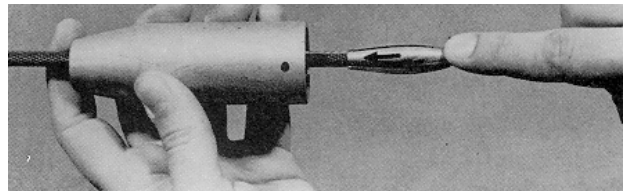
SAFETY CONSIDERATIONS

1. For proper performance and personal safety be sure to select the proper size product for your application.
2. This application procedure is not intended to supersede any company safety standards. This procedure is offered only to illustrate safe application for the individual. Failure to follow these procedures may result in personal injury.
3. Leather work gloves and eye protection should be worn when handling and installing PMI products.
4. When passing this product over a sheave, the sheave diameter needs to be at least 40 times the diameter over the helical rods (cable + applied rods). To prevent the rod ends from lifting off the cable when passing over a sheave, use tape and/or metal bands to serve the rod ends in place.

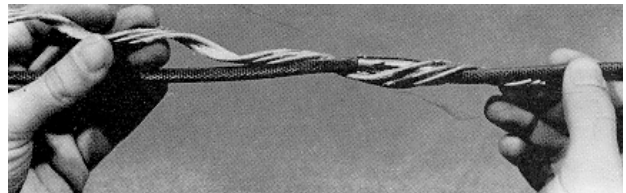
APPLICATION SEQUENCE



1. Slide housing, non-threaded end first, over the cable and out of the way.



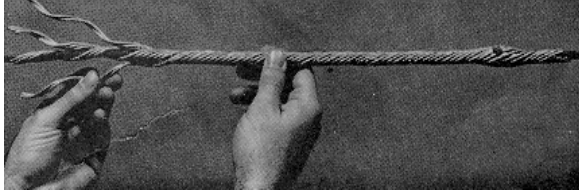
2. Slide the insert, slotted end first, over the cable to the location where the EVERGRIP™ Termination is to be installed. On electro-mechanical cables, allow sufficient cable to extend beyond the insert for electrical connections.



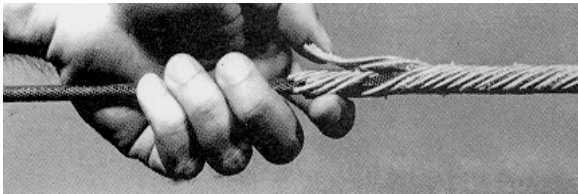
3. Begin application of the EVERGRIP™ Rods with one subset of rods. Position the rods by matching the color mark on the rods with the largest diameter on the insert. Wrap one subset on the cable for approximately two-thirds of the rods length.

NOTE: Avoid winding the cable into the rods as this will make it difficult to fit the remaining rod subsets onto the cable. For flexible cables, apply the rods with the cable under some tension. The stiffer the cable, the easier it is to apply the rods. Be careful during handling not to permanently bend the EVERGRIP™ Rods.





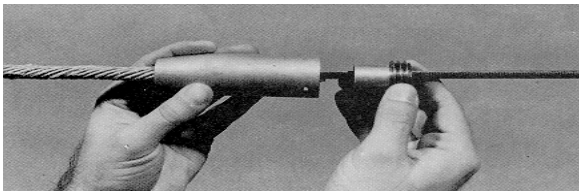
4. Apply the remaining rod subsets, one at a time, for two-thirds of their length. Align the ends of the rods closely with each other. Do not allow rods to cross over each other.



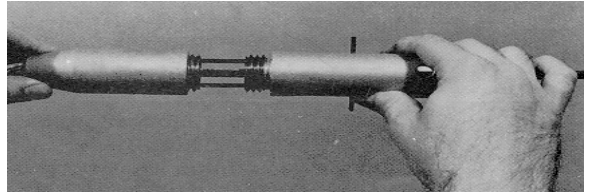
5. Finish wrapping rod subsets, one at a time, around the cable by using the thumb to push rod ends while the fingers support the cable. (Rod subsets can be separated into single rods to ease application on larger sizes). Make sure all rod ends are snapped into place and are laying on the cable. If necessary tap rods down with a rubber mallet to help rods lie flat. Tape or bands may be used to serve the rod ends and avoid snags.



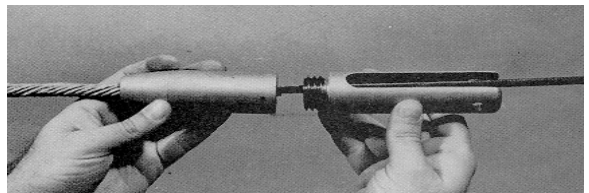
6. Slide housing back up cable and over the rods until firmly seated over the insert.



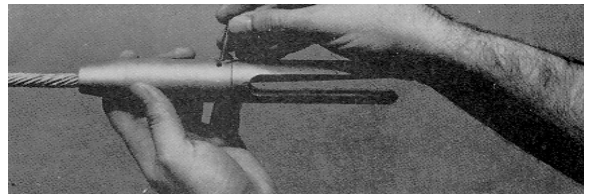
7. PMI recommends applying thread lubricant or anti-seize compound to the retainer and adaptor threads to aid in future disassembly. Slide retainer over the cable toward the housing, threaded end last. Begin threading the retainer into the housing.



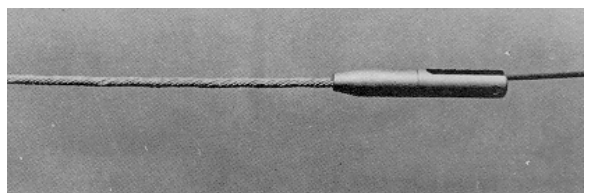
8. Slide the adaptor over the cable toward the housing and the retainer, threaded end first. Place the hex keys in the adaptor holes as shown. Use the adaptor and keys as a spanner wrench to tighten the retainer firmly into the housing. When the retainer is properly in place there should be no looseness in the assembly.



9. Remove the hex keys from the adaptor and proceed to thread the adaptor firmly into the housing making sure groove-pin holes are aligned. Do not over tighten.



10. Lock the adaptor and housing together by driving the groove pin into the hole in the mated threads.



11. The assembly is now complete. Shown above is the completed termination without the adaptor clevis pin. Only use the supplied PMI clevis pin.

TROUBLE-SHOOTING

If application problems or difficulties occur, please contact PMI Industries, Inc.

