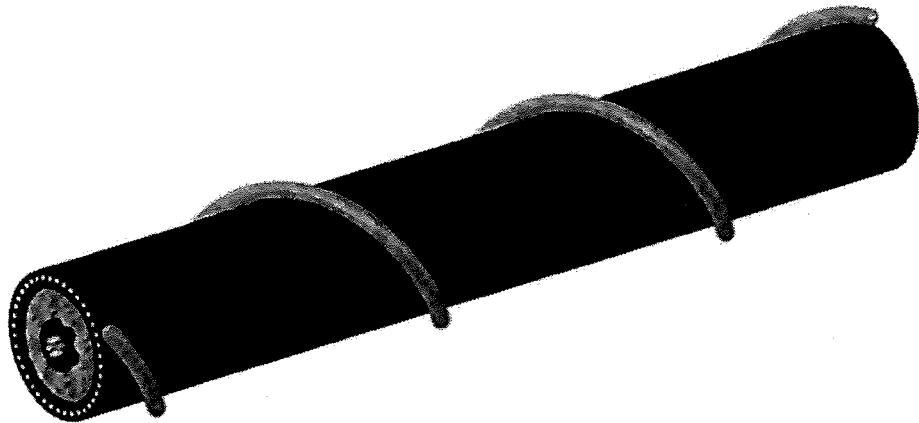


EXHIBIT A

A COMPLETE LINE OF UNDERWATER CABLE TERMINATIONS

These products were influenced & developed by adapting the helical gripping concept for use on underwater cables.



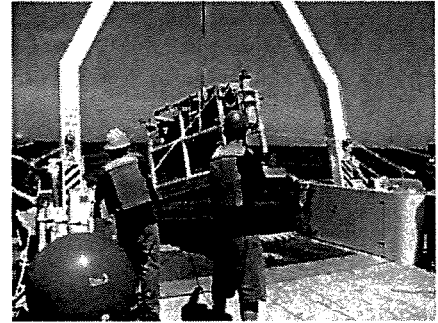
SO LVING UNDERWATER
CABLE SYSTEM PROBLEMS,
SINCE 1969.

DYNA-GRIP® / EVERGRIP™ Termination

The DYNA-GRIP® Termination is the benchmark product of PMI Industries, Inc. It has been used in more varied and dynamic applications than any other PMI product.

The DYNA-GRIP® and EVERGRIP™ Termination are "sister" terminations. Both are fast, field installable, full-strength cable termination for use in dynamic applications on E/O/M cable and wire rope.

- Cable or wire rope extends through the termination intact without cutting or modification of the cable.
- No special tools are required
- EVERGRIP™ Termination does not require any epoxy resin.
- Retermination kits are available for the EVERGRIP™ Termination at a fraction of the cost.
- Unique use of the preformed helical rods provide an added degree of bending strain relief protection where the cable leaves the termination
- Additional bend protection available by adding an EVERFLEX™ Bending Strain Relief.



EVERGRIP™ Termination in use

CABLE-GRIP™ & STOPPER-GRIP™ Termination

CABLE-GRIP™ Termination for cable under one inch in diameter and STOPPER GRIP™ Termination for cable over one inch diameter are both quick and reliable terminations for stopping-off bare armor or jacketed cables.

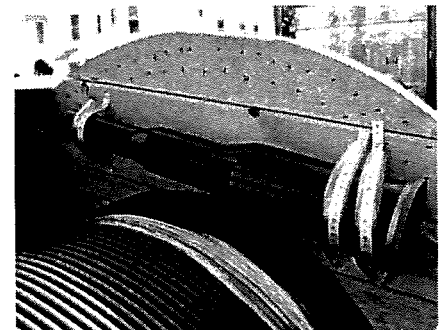
- Specially designed to be applied on wire rope or E/O/M cable, they can generate the full rated breaking strength of the cable.
- The cable or wire rope extends through the termination intact, without modification
- Can be applied without special tools or epoxy resins.



EVERFLEX™ Bending Strain Relief (BSR)

A "Cable-Life Saver", the EVERFLEX™ Bending Strain Relief (BSR) and is ideal for use at any point where bending strain or bending fatigue is a problem.

- Slip-on protection, slides over cable end and secures in place with the adaptor
- EVERFLEX™ BSR is a composite design of poly-urethane and helical steel rods providing graduated stiffness to protect the tensioned cable.
- An all polyurethane version is available for many application involving flexible flowlines in the offshore oil industry.
- Available in sizes for 1/8" cable to 18" OD flexible flowlines used in the offshore oil industry.



EVERFLEX™ BSR installed on cable

EVERGRIPTM Termination

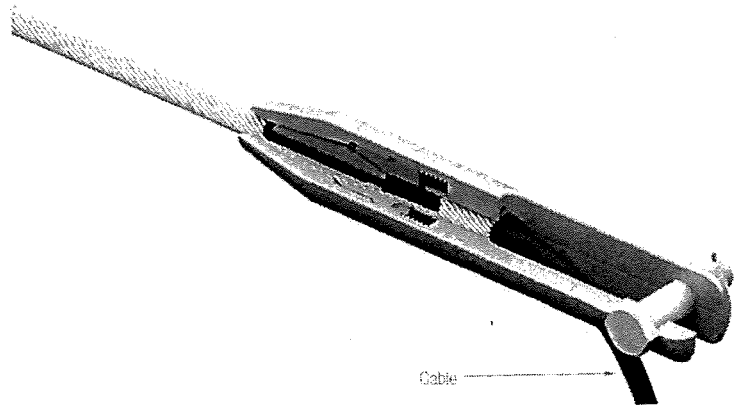
Fast, Field Installable, Immediate Use

Use On Wire Rope & E/M Cable

Full Strength

Proven Performance

Corrosion Resistant



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 EVERGRIPTM 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 EVERGRIPTM Termination excels in reliability.

UNIQUE

The complete cable passes through the EVERGRIPTM 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 EVERGRIPTM Termination inexpensive and keeps downtime system at a minimum.

CORROSION RESISTANT

Standard kits are furnished in galvanized steel.

ADDITIONAL PROTECTION AVAILABLE

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

IMPORTANT ORDERING INFORMATION

EVERGRIPTM 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.

EVERGRIPTM COMPLETE KIT includes:

- Housing
- Retainer
- Helical Rod Set
- Insert
- Locking Pin
- Application Procedures

EVERGRIPTM RETERMINATION KIT includes:

- Helical Rod Set
- Insert
- Locking Pin
- Application Procedures



You've got a lot of ocean in front of you. You need PMI behind you.

DYNA-GRIP® Termination

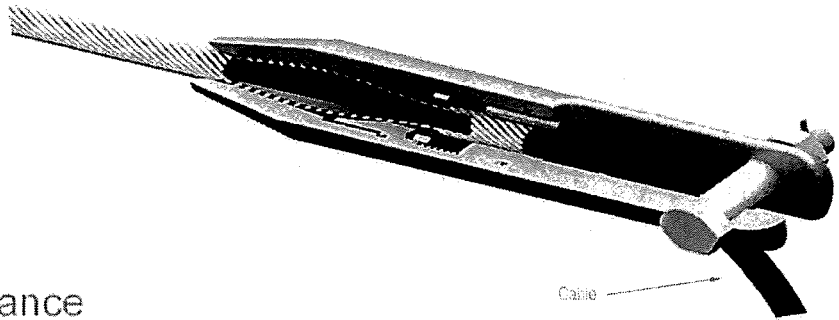
Use On Wire Rope & E/M Cable

Corrosion Resistant

Full Strength

Field Installable

Proven, Superior Performance



PROVEN PERFORMANCE

Exhaustive tests performed by our laboratory and at-sea use since the early seventies, conclusively demonstrate the DYNA-GRIP® Termination improves cable system survivability and reduces costly repair and downtime. Valuable experience gained from use in oceanographic, military, offshore petroleum, and ROV systems proves the DYNA-GRIP® Termination excels in reliability and long life.

FULL-STRENGTH

Engineered to hold 100 percent of the cable's rated break strength when applied on bare metal strength members. The DYNA-GRIP® Termination protects against fatigue of your cable system under severe dynamic conditions.

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 in the retainer to seat the rods and insert. Pour in epoxy resin secure the whole assembly by screwing the clevis adaptor into place. Allow the epoxy to cure.

UNIQUE

The complete cable passes through the DYNA-GRIP® 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. Tensile load transfers gradually from cable to helical gripping rods. Within the termination, tensile load transfers from helical rods to the housing relieving the cable of all tensile stress. The cable is protected from compression forces by the insert, therefore the full mechanical capability of the cable is realized.

CORROSION RESISTANT

Standard kits are furnished in galvanized steel. Epoxy filler blocks the housing cavity against corrosive environments and locks internal components to prevent abrasion and noise.

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 DYNA-GRIP® Termination. The EVERFLEX™ Bending Strain Relief limits bending, consequently controlling stresses at the rigid termination point.

IMPORTANT ORDERING INFORMATION

DYNA-GRIP® Terminations are built to close tolerances. To insure satisfaction please specify rope or cable diameter, construction or type, rated breaking strength, and lay direction of outer strength members. Consult PMI for use on jacketed cables.

DYNA-GRIP® Complete Kit includes:

- Housing
- Retainer
- Adaptor
- Epoxy Kit
- Helical Rod Set
- Insert
- Locking Pin
- Application Procedures

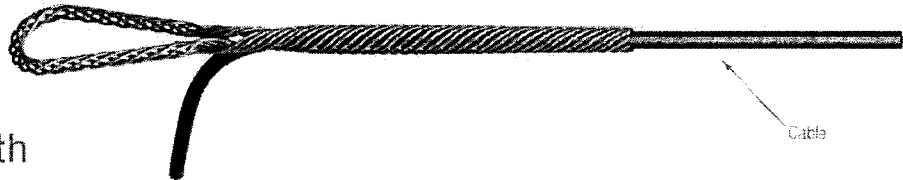


You've got a lot of ocean in front of you. You need PMI behind you.

STOPPER-GRIP™ / CABLE-GRIP™

Terminations

Use On Wire Rope & E/M Cable
 Fast, Field Installable
 Corrosion Resistant
 Superior Holding Strength



STOPPER-GRIP™ Terminations for cable over 1" diameter

EASY TO USE

The Stopper-Grip™ and Cable-Grip™ Terminations are field installable in minutes. No cable preparation, special training or tools required. Simply wrap the termination legs onto your cable by hand.

UNIQUE

Helical wire design permits easy application anywhere along the length of the cable. There is no need to have access to the cable end.

Stopper-Grip™ and Cable-Grip™ Terminations are ideal for getting a quick grip on your cable in emergency as well as routine cable handling operations.

The complete cable passes through the termination intact. Tensile load transfers gradually from cable to termination with no stress concentration to damage your cable.

FULL STRENGTH

Many of the Stopper-Grip™ and Cable-Grip™ Terminations have material strengths greater than the breaking strength of the cable that they are installed on.

CORROSION RESISTANT

Stopper-Grip™ and Cable-Grip™ Terminations are designed for the marine environment. Standard grips are furnished in galvanized steel. Both terminations are compatible with many jacketed and synthetic strength member cables.

PMI Number	Cable Range (in.) Min - Max	Cable Range (mm) Min - Max	Overall Length	Lay Direction	Loop Diameter	RHS*
9100199	1.074 - 1.156	27.3 mm - 29.4 mm	129	LHL	3.5	59920
9100208	1.074 - 1.156	27.3 mm - 29.4 mm	93	LHL	3.5	59920
9100220	1.201 - 1.294	30.5 mm - 32.9 mm	74.5	RHL	3.5	53928
9100209	1.220 - 1.314	31.0 mm - 33.4 mm	140	LHL	3.5	53928
9100207	1.220 - 1.314	31.0 mm - 33.4 mm	103	LHL	3.5	53928
9100205	1.299 - 1.399	33.0 mm - 35.5 mm	80	LHL	4	63450
9100226	1.299 - 1.399	33.0 mm - 35.5 mm	80	RHL	4	63450
9100206	1.357 - 1.462	34.5 mm - 37.1 mm	100	LHL	3	63450
9100204	1.387 - 1.494	35.2 mm - 37.9 mm	120	LHL	3	63450
9100201	1.464 - 1.577	37.2 mm - 40.1 mm	89	LHL	4	63450
9100203	1.464 - 1.577	37.2 mm - 40.1 mm	122	LHL	4	63450
9100202	1.607 - 1.731	40.8 mm - 44.0 mm	101	LHL	2.5	96312
9100219	1.660 - 1.787	42.2 mm - 45.4 mm	102	RHL	4	108912
9100211	1.708 - 1.840	43.4 mm - 46.7 mm	103	LHL	4.75	108912
9100222	1.708 - 1.840	43.4 mm - 46.7 mm	140	LHL	4	108912
9100214	1.806 - 1.945	45.9 mm - 49.4 mm	150	LHL	5.5	117988
9100210	1.806 - 1.945	45.9 mm - 49.4 mm	109	LHL	5.5	117988
9100196	1.913 - 2.060	48.6 mm - 52.3 mm	115.5	RHL	5.5	117988
9100213	2.050 - 2.208	52.1 mm - 56.1 mm	169	LHL	5.5	127064
9100212	2.050 - 2.208	52.1 mm - 56.1 mm	123	LHL	5.5	127064
9100218	2.381 - 2.564	60.5 mm - 65.1 mm	177	LHL	6	175000
9100200	2.381 - 2.564	60.5 mm - 65.1 mm	127	LHL	6	175000
9100217	2.636 - 2.838	67.0 mm - 72.1 mm	131	LHL	5	175000
9100225	2.636 - 2.838	67.0 mm - 72.1 mm	131	LHL	5	163368
9100224	2.636 - 2.838	67.0 mm - 72.1 mm	184	LHL	6	187500
9100221	2.968 - 3.196	75.4 mm - 81.2 mm	148.75	LHL	5	212500



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EXHIBIT B

terminations wire cable

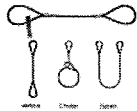
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[PDF] WIRE ROPE END TERMINATIONS - The Crosby Group

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WIRE ROPE END. TERMINATIONS. User's Manual. Featuring Application and Installation Procedures for: National Swage Fittings. Crosby Spelter Sockets.

Wire rope - Wikipedia, the free encyclopedia

en.wikipedia.org/wiki/Wire_rope
Jump to Terminations - Terminations[edit]. Right-hand ordinary lay (RHOL) wire rope terminated in a loop with a thimble and ferrule. The end of a wire ...

[PDF] CHAPTER 5 ROPE AND CABLE TERMINATIONS ... - U...

www.unols.org/...
Selection of the proper type of wire or cable termination used in oceanographic ...
Primarily, seven basic types of wire rope terminations will be discussed as ...

[PDF] WIRE ROPE TERMINATIONS

www.certex.com/assets/wire-rope-terminations.pdf
Efficiency ratings for wire rope end terminations are based upon the catalog ... The style wire rope termination used for any application is the obligation of the ...

Wire/Cable Termination Options - Dsmt.com

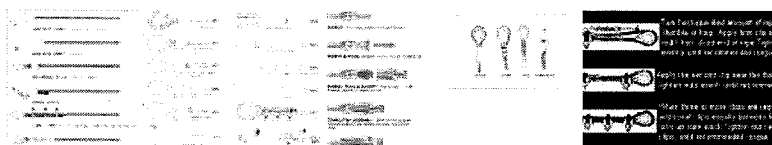
www.dsmt.com › Resources
Whether it's a Wire Harness or a Cable Assembly, find the best way to terminate the ends. Below is a quick reference chart of common termination options to ...

Feature Help for Termination Method to Wire/Cable - TE

www.te.com › ... › Product Feature Selector › Product Details
Feb 21, 2014 - Crimp Crimp, Snap-In contacts are terminated directly to the discrete wire via hand crimping or machine applied tools. Solder Solder contacts ...

Images for terminations wire cable

Report images



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Wire Termination & Connectors: power, push-in, winged ...

www.cableorganizer.com › Tools & Cases › Hand Tools
Platinum Tools Telcom Splicing Connectors and Telcom Pliers make a winning combination for simple, quick, and reliable termination of wires and cables.

3

[PDF] Wire Rope Terminations - Wesco Industries Ltd.

www.wescovan.com/catalogs/WireRopeTerminations.pdf ▼

loadings as the **wire rope** they are used on, and should never be allowed to exceed the ... with the use of a torque wrench, the **termination** efficiency will be 80%.

Feature Help for Termination Method to Wire/Cable - TE

www.tycoelectronics.com/catalog/bin/TE.Connect?C... ▼

Search the TE Connectivity Component Catalog - Search by Product Type, Industry Application, Brand, Part Number and many other options.

[PDF] Wire & Cable Termination - Sefco Electric Supply

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