



Introducing  
**Raychem Marine High-Voltage  
Termination & Splice Kits**



# Marine High-Voltage Termination & Splice Kits



## KEY FEATURES

Designed and tested to IEEE-48 and IEEE-404 standards

Superior environmental sealing

Polyolefin heat shrink sleeve

Compact design

Tough, abrasion resistant, industry proven materials

Excellent electrical stress control

Easy to follow installation instructions

Easier to install in confined spaces (Cold applied kits)

## DESCRIPTION

Marine high-voltage termination and splice kits provide a safe, simple and secure way to terminate both water and non-water blocked cables rated up to 15KV. These kits have been designed to be watertight and feature non-tracking insulation with a revolutionary new electrical stress control system. They are high performing with a history of use in industrial applications.

## APPLICATIONS

Ideal for a broad range of applications, utilizing commercial and military marine high voltage cables. The marine high voltage kits offer mechanical strength, water tight sealing and the ability to withstand extreme environments.

## PART NUMBERING SYSTEM

**MHXX - XXKV - X - X - X - XX**

KIT TYPE \_\_\_\_\_

- MHHT (Heat Shrink Termination)
- MHHS (Heat Shrink Splice)
- MHCT (Cold Applied Termination)
- MHCS (Cold Applied Splice)

VOLTAGE \_\_\_\_\_

- 8KV (0-8KV)
- 15KV (0-15KV)

PHASE CONDUCTOR INSULATION DIAMETER \_\_\_\_\_

- 1 (.64 - .95 in.)
- 2 (.95 - 1.25 in.)
- 3 (1.10 - 1.65 in.)
- 4 (.60 - 1.40 in.) (Cold applied splice only)

NUMBER OF PHASE CONDUCTORS \_\_\_\_\_

- 1
- 3
- 4

NUMBER OF GROUND CONDUCTORS \_\_\_\_\_

- 0
- 3
- 4

TYPE OF SHIELD \_\_\_\_\_

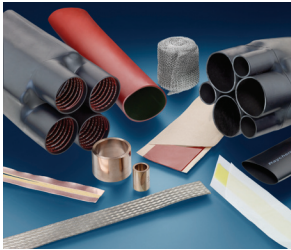
- G (Gross Shield)
- PS (Phase Shield/Semi-Con & Gross Shield)

Notes:

1. Recommended overall cable insulation diameter range (1.30 - 3.50 in.)
2. Choose the largest size available that will fit your cable.

# Marine High-Voltage Termination & Splice Kits

## HEAT SHRINK KITS



### MHHT

#### *Marine High-Voltage Heat Shrink Termination Kits (0-15 kV)*

The unique high-voltage insulating sleeve is a non-tracking, and erosion-resistant material that does not require periodic cleaning. The material properties have been formulated to be thermally stable and highly resistant to UV degradation, weathering and environmental pollution.

The cable, along with external ground, is sealed from moisture ingress using our high-voltage, heat-activated sealing system. No field engineering or additional accessory kits are required.

Rated to IEEE-48 class 1. Indoor (in enclosures) or outdoor (weather-exposed) use. For use on shielded, non-shielded, water blocked or non-water blocked marine cables.

#### **MHHT kits offer the following features and benefits:**

- Heat-shrinkable terminations with built-in stress control
- Easy installation
- Rated to IEEE-48-1996, class 1 termination requirements
- Seals out all moisture and contamination and complies to MIL-24640 leakage requirements

#### *Heat-Shrinkable Terminations with Built-In Stress Control*

This high voltage termination system features a co-extruded one-piece termination. It consists of the same proven non-tracking tube together with a co-extruded, built-in stress control grading layer. This stress control layer is based on ceramic semi-conductor technology (ZnO) and provides superior discharge and impulse performance. When the tubing is shrunk down, the coating softens and sticks to irregular surfaces, providing moisture seals as well as electrical stress control.



### MHHS

#### *Marine High-Voltage Heat Shrink Splice Kits (0-15 kV)*

The heat-shrinkable shielded power cable splices are pre-engineered to offer a compact, low-profile installation with a minimum diameter buildup. The kits contain a solderless grounding kit, consisting of a ground clamp, a ground braid, and a shielding mesh. Heat-shrink feature allows the kits to accommodate out-of-round, out-of-spec cable.

## COLD APPLIED KITS



### MHCT

#### *Marine High-Voltage Cold Applied Termination Kits (0-15 kV)*

MHCT tool-free termination kits have been developed to provide a quick and easy, cold-applied method of terminating 0-15 kV polymeric cables. The MHCT's are designed for indoor conditions.

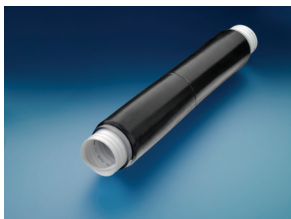
#### **MHCT kits offer the following features and benefits:**

- Advanced metal oxide matrix stress control
- Positive placement of stress control patch
- Provided on a crush-resistant core
- Easy installation — allows for repositioning
- Rated to IEEE-48-1996, class 1 termination requirements
- Seals out moisture and contamination, up to 15 psi of water pressure

### MHCS

#### *Marine High-Voltage Cold Applied Splice Kits (0-15 kV)*

Cold-applied splice is designed to splice medium voltage cables without the use of a torch or heat gun. The splice consists of a pre-stretched body on a unique holdout design together with a built-in-place Faraday cage. The kit contains integrated sock-type shielding mesh and solderless spring clamps to accommodate different types of metallic shields such as Copper Tape, LC, Flat Strap and others. The re-jacketing system is a wraparound GelWrap splice closure designed to seal the entire splice area and provide mechanical and environmental protection.



## FOR MORE INFORMATION

### Technical Support

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