



# SEACON Breakaway Unit

Shear-Pin Breakaway Point for Armor Section of  
Deepwater MUX Cables

## KEY FEATURES

- Overall Length: 6.4"
- Overall Diameter: 1.6"
- Replaceable shear pin
- Non-destructive failure mode
- Full ocean depth rating
- Field Installable (no compounds)
- 17-4 PH SST shear pin
- 1/2" clevis mount lower, 3/8" pin upper
- Interfaces with TE's SEACON Armor Termination Assembly (ATA)

## Description

The Breakaway Unit provides a means of reducing the damage caused when extreme MUX cable tension breaks a termination. The unit is designed to anchor an Armor Termination Unit to a clevis mount at the subsea end of a riser or control system framework. The breakaway concept is based on shear pin technology. Shear pin material with a low ultimate/yield strength ratio is used to increase accuracy of targeted breaking load.

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## Specifications

### MATERIALS

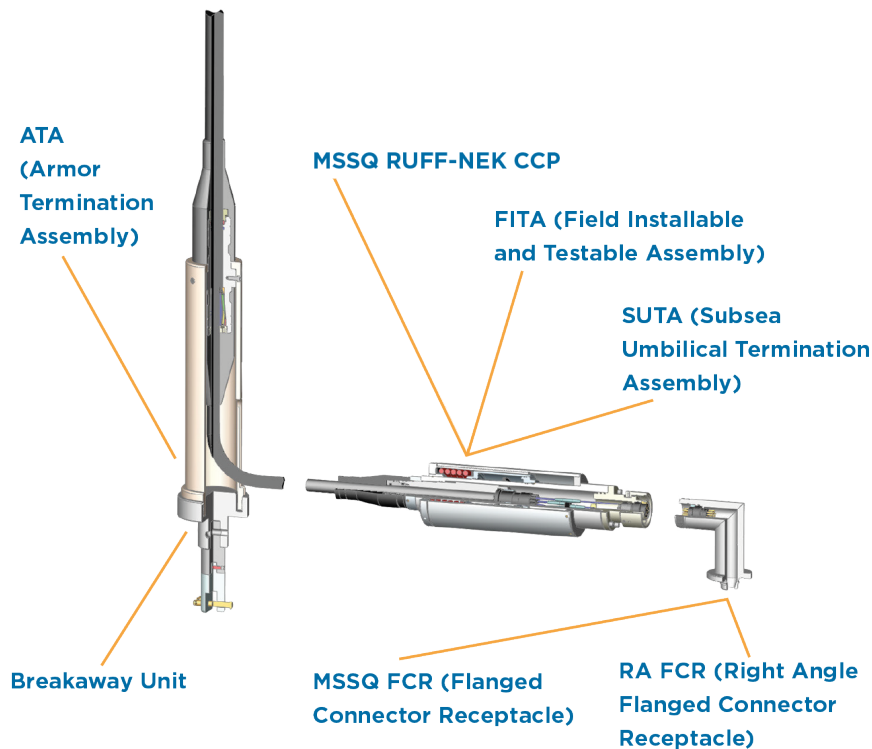
- **Body:** 316 Stainless Steel
- **Shear Pin:** 17-4 PH Stainless Steel

### DESIGN RATING & TESTING

- **Tested Breaking Strength:** 8,000 lb
- **Design Life:** 20 years

### PRINCIPLE OF OPERATION

The Breakaway Unit was designed to be an integral part of the MUX umbilical cable termination system shown below. The Armor Termination Assembly is secured to the riser or control system framework using a Breakaway Unit that is designed to separate at a defined load. The smaller, more manageable Field Installable Testable Assembly (FITA) is then routed and connected. In the case of accidental Blowout Preventer (BOP) droppage, the Breakaway Unit shears and the unarmored section of cable pulls out of the FITA.



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2363320-1 12/19

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Consult TE for the latest dimensions and design specifications.

North America +1 800 522 6752 • Asia Pacific +86 0 400 820 6015 • France +33 1 34 20 86 86 • Germany +49 6251 133 1999 • United Kingdom +44 800 267 666  
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