



SEACON ADVANCED PRODUCTS, LLC
PRODUCT DATASHEET

BREAKAWAY UNIT
SHEAR-PIN BREAKAWAY POINT FOR
ARMOR SECTION OF DEEPWATER MUX CABLES



Breakaway Unit mounted to lower end of 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.

KEY FEATURES

- Overall Length: 6.4"
- Overall Diameter: 1.6"
- Replaceable shear pin
- Non-destructive failure mode
- Depth Rating: Full Ocean Depth
- Field Installable (no compounds)
- 17-4 PH SST shear pin
- 1/2" clevis mount lower, 3/8" pin upper
- Interfaces with **SEACON** Armor Termination Assembly

DESIGN RATINGS & TESTING

- Laboratory tested breaking strength: 8,000 lb
- Design life: 20 years



SEACON

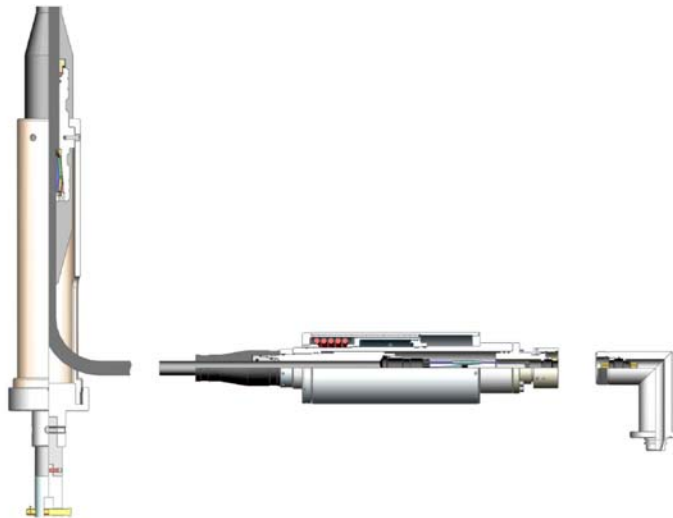
SEACON ADVANCED PRODUCTS, LLC PRODUCT DATASHEET

MATERIALS

- Body: 316 SST
- Shear Pin: 17-4 PH SST

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 **FITA** is then routed and connected. In the case of accidental BOP droppage, the **Breakaway Unit** shears and the unarmored section of cable pulls out of the **FITA**.



ATA FITA Termination System

QUALITY

- SEACON Advanced Products, LLC operate a Quality Management System certified to ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007.



All reasonable efforts have been taken to ensure that the information contained herein is accurate at the date of publication, but no representation or warranty as to the accuracy or completeness of such information is intended or to be implied by its inclusion herein. Any and all representations and warranties pertaining to the information and products referred to herein shall be set forth in SEACON standard sales order form. In addition, SEACON reserves the right to make changes to the contents hereof without notice, therefore it is suggested that at the time of inquiry, the appropriate sales office or factory be contacted directly for verification of published specifications and products availability.

© 2014 SEACON Advanced Products, LLC.
ALL RIGHTS RESERVED