



SEACON ADVANCED PRODUCTS, LLC PRODUCT DATASHEET

MUX CABLE TERMINATIONS

ARMOR TERMINATION ASSEMBLY (ATA)

The **ATA** allows contra-helical armor to be terminated a distance away from the end electrical connection of a MUX umbilical cable. This makes terminated cable handling much more manageable, and provides an emergency breakaway point which preserves SEM integrity. The interior armor 'plug' is mechanical, no epoxy is used. The dual-cone technology assures holding strengths exceeding 75% of cable breaking strength.



BREAKAWAY UNIT

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.



MSSQ RUFF-NEK

The **MSSQ RUFF-NEK** connector is a MUX cable termination that maintains a constant positive pressure inside its oil-filled connector cavity. Positive pressure, maintained at 25 psi using a spring-loaded piston, deters water ingress from conductor interstices and other sources. Inside the connector, advanced conductor booting technology assures functionality even when the **MSSQ RUFF-NEK** is water-flooded. The **MSSQ RUFF-NEK** is field installable and testable. Dual barrier seals are used throughout the connector. It is currently available in an electro-optical hybrid configuration, and will soon be available in electrical-only configurations.



MSSQ FLANGED CONNECTOR RECEPTACLE

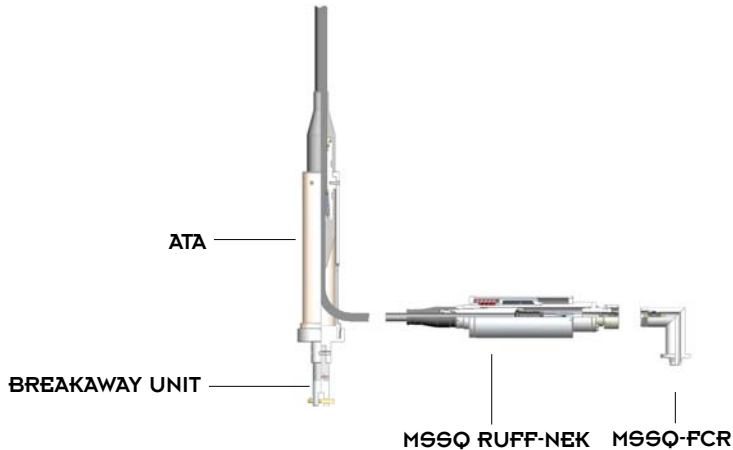
The **MSSQ-FCR** has been part of **SEACON**'s standard product line for over 30 years and has been used for connection to MUX cable connectors in the drilling industry for more than 10 years. The receptacle mounts to existing hole penetrations on many subsea modules. The connection side of the receptacle interfaces with **SEACON**'s standard **MSSQ** Cable Connector Plug line. Typical connection is to a **MSSQ RUFF-NEK**, positive pressure compensated MUX cable connector. The **MSSQ** series of MUX terminations is available with electrical contacts only and electrical-fiber optic hybrids. Standard body material is passivated 316 SST although other materials are available upon request.





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RUFF-NEK TERMINATION SYSTEM



BOP CONTROL SYSTEMS	CABLE TYPES	INDIVIDUAL DATASHEETS
VARCO ABB/VETCO CAMERON HYDRIL	NSW 116351 NSW 116372 NSW 116373 NSW 116375 NSW 116380 NSW 938600 OYO GEOSPACE 472-00050-XX-YY Rochester A304485 Rochester A304739 Rochester A304862 Rochester A305605 Rochester A305614 Rochester A306393 Rochester A306660 Rochester A307243 Rochester A307472 Rochester A307631 Vector A71033 Vector A72022 Vector A72023	SAPL-DS-0106 Breakaway Unit SAPL-DS-0107 ATA SAPL-DS-0108 FITA SAPL-DS-0109 RA FCR SAPL-DS-0110 MSSQ-FCR SAPL-DS-0111 RUFF-NEK

QUALITY

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



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