

### AMERICAN PETROLEUM INSTITUTE (API) COMPLIANT CONNECTOR SERIES



*American Petroleum Institute (API) Compliant Connector Series*

#### DESCRIPTION

SEACON has historically adapted existing products to meet changing market needs. For decades, SEACON's highly successful Metal Shell Series (MSS) connector range has offered high contact density and a variety of power and signal configurations to meet customer underwater power and data requirements. Adapted from that series, the SEACON API connector series complies with American Petroleum Institute (API) specifications 16D (Control Systems for Drilling Well Control Equipment and Control Systems for Diverter Equipment) and 17E (specification for Subsea Umbilicals).

#### KEY FEATURES

- Bulkhead connectors are designed to be compliant with appropriate section of API 16D specifications
- Cabled connectors and assemblies are designed to be compliant with appropriate section of API 16D and API 17E specifications
- Redundant sealing at all pressure barrier interfaces
- Multiple test ports for in-the-field o-ring testing and verification
- Boot sealing in cabled connectors and assemblies in event of flooded cable conditions
- Electrical, optical and hybrid connectors configurable in 8 shell sizes
- Factory Acceptance Testing (FAT) includes both mated and open-face pressure testing
- Custom interfaces available
- Flanged Connector [bulkhead] Receptacle connectors have inboard water-blocking boots over the electrical termination to eliminate risk of failure in a flooded housing scenario
- Pressure Balanced Oil Filled (PBOF) cables operate fully in the event of breached hose/water ingress with full-pressure water-blocking on the solder cup side of the connectors
- Oil-filled cable connectors options available without valves eliminate a direct path for water to reach the face of the bulkhead connector in case of hose flooding



# SEACON PRODUCT DATASHEET

## MATERIALS & RATINGS

- 316 Stainless Steel with GRE inserts and copper-alloy, gold-plated contacts. Alternate materials including Titanium shells and Glass to Metal inserts are also available
- Voltage rating of 600 VDC
- Pressure rating of up to 10,000 psi (approx. 22,500ft / 7,000m)

## CONFIGURATIONS

### BULKHEAD

MSSK-8#16-FCR-HP  
 MSSK/MINK(SP)-6#16-FCR  
 MSSK/MSSG-4(1#16/3#14)-FCR  
 MSSK-16#20AWG-CCR PBOF  
 MSSM-4FO/8#16-FCR  
 MSSM-4#8-FCR-SP  
 MSSP-48#16AWG-FCR-GS  
 MSSQ-8FO/4#10-FCR

### CABLE CONNECTOR

MSSK-8#16-CCP-V3-PBOF  
 MSSK-6#16-CCP R/A  
 MSSK-4(1#16/3#14)-CCP  
 MSSK-16#20AWG-CCP PBOF  
 MSSM-4FO/8#16-CCP  
 MSSM-4#8-CCP-SP  
 MSSM-4FO(MM)-CCP-SP  
 MSSP-48#16AWG-CCP-RA PBOF  
 MSSQ-8FO/4#10-CCP

The above configurations have test port features allowing integration into equipment/systems requiring compliance to API standards.

## APPLICATIONS

- Blowout Preventer
- Drilling Control Systems
- Riser Monitoring

## QUALITY

- SEACON operate a Quality Management System accredited to ISO 9001:2008.



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