



SEACON MSS (Metal Shell Series) Connectors

KEY FEATURES

- Meets with appropriate section of API 16D and API 17E specifications
- Redundant sealing at all pressure barrier interfaces and multiple test ports for in-the-field o-ring testing and verification
- 8 shell sizes
- Up to 10,000 psig and 600 VDC

Description

TE Connectivity (TE) has historically adapted existing products to meet changing market needs. For decades TE's SEACON MSS connector range has offered high contact density and a variety of power and signal configurations to meet customer underwater power and data requirements. These connectors also meet with American Petroleum Institute (API) specification 16D (control systems for drilling well control equipment and control systems for diverter equipment) and 17E (specification for subsea umbilicals).

TE Components . . . TE Technology . . . TE Know-how . . .

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SEACON MSS (Metal Shell Series) Connectors

Specifications

DESIGN SPECIFICATIONS

- Bulkhead connectors meet with appropriate section of API 16D specifications
- Cabled connectors and assemblies meet 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 help eliminate a direct path for water to reach the face of the bulkhead connector in case of hose flooding

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 Connectors:**
 - 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 Connectors:**
 - 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
- Riser Monitoring
- Drilling Control Systems

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Consult TE for the latest dimensions and design specifications.

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