

**INTRODUCTION**

In recent years there has been an increased requirement for connectors to operate in hazardous environments and many applications now require quick and safe disconnection of connectors to be used in these environments. As a result SEACON (europe) Ltd has developed a new robust range of Exd connectors.

**AVAILABILITY**

The EX-MATE is based around SEACON (europe)'s existing and successful SEA-MATE range and can be wet mated in depths of up to 50m in addition to its suitability for use in explosive environments. It is also available in 4 shell sizes (G, K, L, M) between 2 & 37 contact configurations. However like the SEA-MATE, this series has interchangeable inserts so can be adapted to a number of pin configurations. In addition, the EX-MATE incorporates an ATEX - IECEx approved glanding system for the cable which is encapsulated within the over mold, making it suitable for a range of hazardous environments.

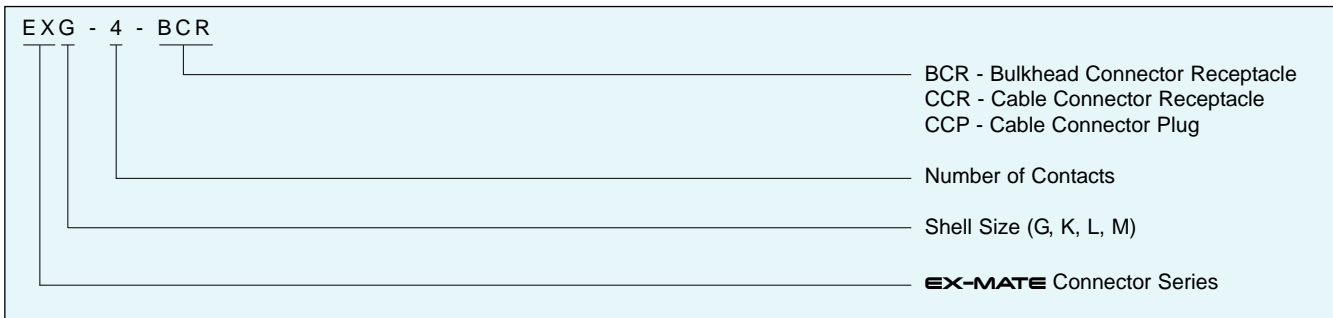
**APPLICATIONS**

The EX-MATE is suitable for a number of applications including Topside FPSO, Drilling vessels or other potentially explosive environments as covered by the extensive qualification testing.

**TESTING**

The EX-MATE has undergone testing at an independent testing house and has achieved Atex certification to II 2G Ex d IIB T6 amb -40°C +55°C. Full ATEX - IECEx testing information is available upon request.

**PART NUMBER SYSTEM - EXAMPLE**



**GENERAL INFORMATION**

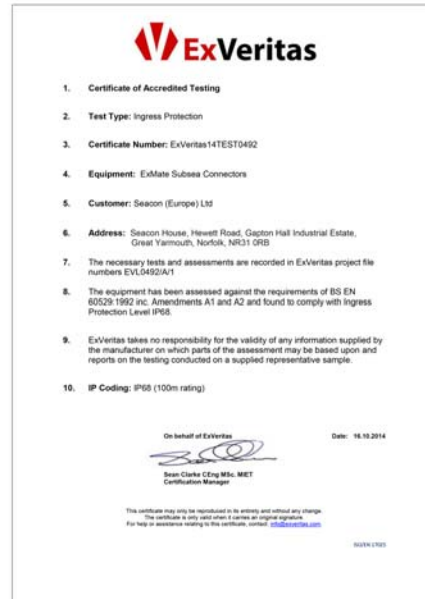
COMPONENT	MATERIAL
BULKHEAD BODY (BCR/CCR)	316L Stainless Steel Ferralium version also available
CCP BODY	316L Stainless Steel c/w Aluminum Bronze NES 833 engaging nut Ferralium version also available
CONNECTOR INSERT	Glass Reinforced Epoxy (GRE)
ELECTRICAL CONTACTS	Brass CZ124 gold plated as per MIL-G-45204
O-RING (BULKHEAD/FCR)	Nitrile

CATEGORY	VALUE
MATED PRESSURE	Up to 7,500 psi (5,200m water depth)
OPEN FACE PRESSURE	Up to 7,500 psi (5,200m water depth)
VOLTAGE RATING	600 VDC/440 VAC
CURRENT RATING	Up to 10 amps (G size) Up to 4.3 amps (K, L & M sizes) Cable selection will need to meet the requirements of EN 60079-14

**IP68 CERTIFICATION**

Approved to IP Code (Ingress Protection) 68. This international standard classifies the level of protection provided against intrusion of dust and water in electrical enclosures.

In order to meet the requirements of the IP68 standard sample connectors were subjected to various tests as per the agreed program including pressure testing to 100m.



**NOTES:**

Connectors are designed for installation on one atmosphere vessels. For all other applications please contact SEACON.