

INTRODUCTION

This unique, ultra miniature design incorporates the proven characteristics of some of our popular connectors in a smaller, rugged and reliable package. The contacts are gold plated and range from 28 awg, 0.10 amp to 22 awg, 1.50 amp sizes and are rated to 10,000 psi mated. The bulkhead connector consists of a metal shell with molded GRE (Glass Reinforced Epoxy) inserts which are all supplied pigtailed and back potted. The cable connector is molded in neoprene to standard or custom cable lengths upon request. This design makes for a rugged, economical connector.

SEA CON®'s Engineers have achieved an extremely high contact density connector whilst keeping the installation as easy as possible by using standard sizes and only requiring the use of standard SAE porting tools for bulkhead preparation.

AVAILABILITY

The connector range is built to stock which provides quick, 'off the shelf' deliveries in reasonable quantities of standard products. Please contact the SEA CON® for assistance with significant quantity special orders.

APPLICATIONS

The HUMMER is perfectly suited for applications where size and weight are an issue such as ROV systems, diver communications, current meters and food processing facilities.

TESTING

The following information shows a summary of the testing that has been performed. Formal qualification test data is available from SEA CON® if required.

- Dielectric withstanding voltage testing at 1,000 VAC on GRE (Glass Reinforced Epoxy) inserts with readings at 0.1ma (acceptance level is <0.5ma).
- Insulation resistance qualification testing at >50,000 megohms @ 500 VDC*.
- Pressure testing; 20 cycles and various hold times at facility. Maximum 20,000 psi in a mated condition with IR readings >50,000 megohms.
- Open face testing; various cycles as high as 20,000 psi without electrical or physical failure.
- Durability testing; 50 mate and de-mate cycles without degradation in conductor or insulation resistance readings.

PART NUMBER SYSTEM - EXAMPLE



GENERAL INFORMATION

COMPONENT	MATERIAL
BULKHEAD BODY**	Brass (CA #360)
CCP/DSR/DSP	Neoprene
CONTACTS	Brass-gold plated
O-RING	Nitrile (formerly known as Buna N)
ENGAGING NUT**	Delrin® (DuPont trademark for Acetal Resin)
IN-LINE CABLE***	Teflon® (Registered trademark for DuPont) Insulated, Neoprene Jacketed Neoprene #22 Gage Neoprene #28 Gage
G2, K5, L12 G5, K12, L28	
STANDARD LENGTH	18 inches
HOOK-UP WIRE	Teflon® (Registered trademark for DuPont) or Tefzel® #22/#28

CATEGORY	VALUE
OPEN FACE PRESSURE	Up to 10,000 psi (700 bar) by special order
MATED PRESSURE	10,000 psi (700 bar)
VOLTAGE RATING	300 VDC
INSULATION RESISTANCE	>200 megohms @ 300 VDC (acceptance level)
OPERATING TEMPERATURE	25°F to 140°F (-4°C to 60°C)
BULKHEAD MOUNTING TORQUE	HUMG 12in-lb HUMG 30in-lb HUML 60in-lb
TORQUE VALES REFER TO INSTALLATION INTO DRY METAL THREADS	

AMPACITY CHART FOR STANDARD PARTS

PART DESCRIPTION NUMBER OF CONTACTS	AMPACITY
HUMG - 2	1.50 amps
HUMG - 5	0.24 amps
HUMK - 5	1.10 amps

PART DESCRIPTION NUMBER OF CONTACTS	AMPACITY
HUMK - 12	0.16 amps
HUML - 12	0.80 amps
HUML - 28	0.10 amps

NOTES:

- Amperage ratings are based on standard cables.
- Maximum rating is for a "fully loaded" connector and cable rating must not be exceeded.

- * In service rating 300 VDC.
- ** Contact SEA CON® for special order materials.
- *** Incorporation of special cables will be determined on a case by case basis.