

# M58 CONNECTORS

## High Power Size 3 - V Series



- ▶ **High Power Applications**
- ▶ **Reliable Contact Technology**
- ▶ **360° EMC Shielding**
- ▶ **Excellent Shock and Vibration Resistance**

### HIGH POWER APPLICATIONS

The Smiths Connectors M58 series is designed for high power applications in high voltage power generation, mechanical engineering, rolling mill drives, mechatronics, printing and paper making machines, conveyors and marine. They all feature outstanding protection against electromagnetic interference through a full 360° screen shielding.

### CRIMP TERMINATION

The adoption of crimp contacts allows for a consistent high quality connection and reduces the total installation time of the connector by minimizing the number of operations. Machined contacts feature a closed barrel design ideally suited for manual hand tools and support a wide range of wire termination cross sections.

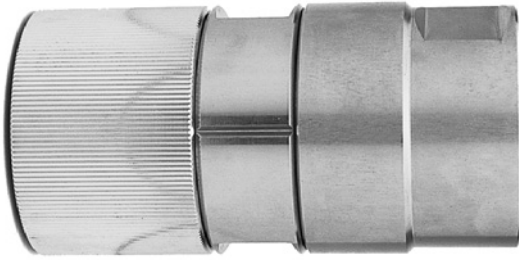
### HYPERTAC HYPERBOLOID CONTACT

Hypertac hyperboloid contact technology is ideal for use in harsh and demanding environments where high reliability and safety are critical. The electrical and mechanical characteristics of the contact ensure unrivalled performance in terms of mating cycles (over 100.000), shock and vibration immunity, low insertion and extraction forces, low contact resistance, high current ratings, and electrical stability over time.

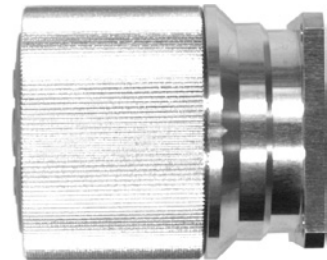
These performance characteristics provide a real commercial benefit in terms of total installed cost of ownership.

# TYPE OVERVIEW

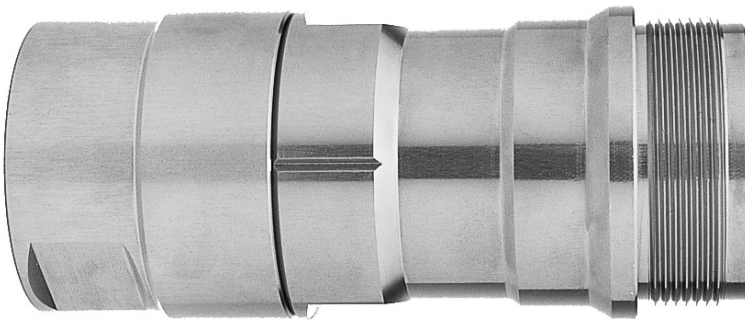
**PART** VPAF  
Plug



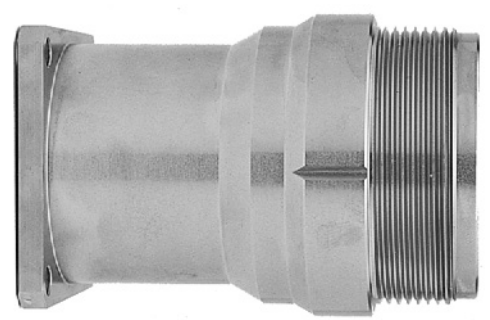
**PART** VDAF  
Panel Feed Through



**PART** VPRF  
Extension



**PART** VECF  
Receptacle



For more types please contact factory

## M58 HIGH POWER SIZE 3

### TECHNICAL CHARACTERISTICS

#### FEATURES

- ▶ Long life and low rate of wear through excellent shock and vibration resistance
- ▶ Termination cross section up to 50mm<sup>2</sup>
- ▶ Accept any back nut that offers a PG 42 threaded connection
- ▶ Corrosion resistant
- ▶ 360° EMC shielding
- ▶ Ground connection
- ▶ Compatible with conventional M58 connectors
- ▶ Installation altitude up to 2000m
- ▶ Contamination level 3 (mated)
- ▶ IP 67 (mated)
- ▶ RoHS compliant
- ▶ UL/CSA approval file No. 178462

#### SPECIFICATIONS

- ▶ **Shell:** aluminium, brass
- ▶ **Shell Plating:** chemical nickel-plated
- ▶ **Insert Material:** PA
- ▶ **Contacts:** CuZn, CuBe
- ▶ **Contact Plating:** gold-plated, silver-plated
- ▶ **Sealing:** FKM, NBR
- ▶ **Storage conditions:** -40°C to 70°C / humidity 40%
- ▶ **Operating Temperature:** -40°C to 125°C
- ▶ **Overtoltage Category:** III
- ▶ **Contact Diameter:** 4 x Ø 10mm; 4 x Ø 1.6mm
- ▶ **Nominal Current:** Ø 10mm 165 A @ 20°C  
Ø 1.6mm 15 A @ 20°C
- ▶ **Operating Voltage:** Ø 10mm 630 V<sub>rms</sub>  
Ø 1.6mm 125 V<sub>rms</sub>

smiths connectors