

M40 CONNECTORS

Power Size 1.5 - P Series



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

HEAVY DRIVE APPLICATIONS

The Smiths Connectors M40 series is qualified for heavy drive applications in mechanical engineering, tooling machines, robotics, mechatronics, printing, packaging, conveyors and marine. P Series features 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 number 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.

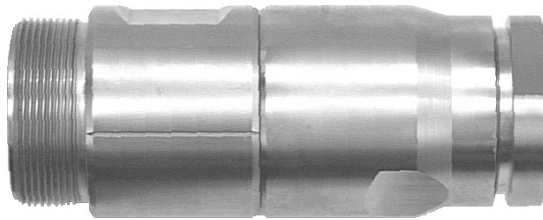
These performance characteristics provide a real commercial benefit in terms of total installed cost of ownership.

TYPE OVERVIEW

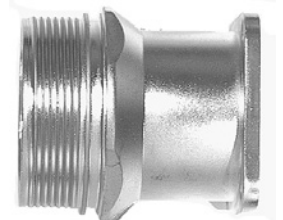
PART PPCM
Plug



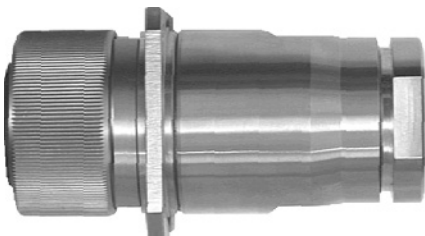
PART PRAF
Extension



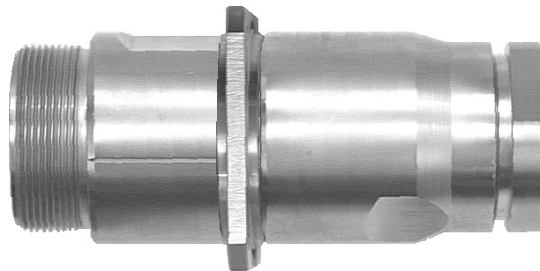
PART PFFA
Straight Receptacle



PART PPAF..03
Plug with flange



PART PRAF..02
Extension with flange



PART PFDM
Two-part angled receptacle, rotatable



For more types please contact factory

M40 POWER SIZE 1.5

TECHNICAL CHARACTERISTICS

FEATURES

- ▶ Long life and low rate of wear through excellent shock and vibration resistance
- ▶ Crimp contacts for cross sections 1.5mm² – 16mm²
- ▶ Corrosion resistant
- ▶ 360° EMC shielding
- ▶ Variable cable clamp Ø 9mm – 25mm
- ▶ Ground connection
- ▶ Compatible with conventional M40 connectors
- ▶ Installation altitude up to 3000m
- ▶ Contamination level 3 (mated)
- ▶ IP 67 (mated)
- ▶ RoHS compliant
- ▶ UL/CSA approval file No. 178462

SPECIFICATIONS

- ▶ **Shell:** CuZn, zinc die-cast, aluminium, plastics
- ▶ **Shell Plating:** nickel-plated, chemical nickel-plated
- ▶ **Insert Material:** PA, PBT
- ▶ **Contacts:** CuZn
- ▶ **Contact Plating:** gold-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 3.6mm; 4 x Ø 2.0mm
- ▶ **Nominal Current:** Ø 3.6mm 65 A @ 20°C
Ø 2.0mm 30 A @ 20°C
- ▶ **Operating Voltage:** Ø 3.6mm 630 V_{rms}
Ø 2.0mm 250 V_{rms}

smiths connectors