

M23 INDUSTRIAL

Series Innovation, System 2000, Series 1i



- ▶ **Reliable Contact Technology**
- ▶ **360° EMC Shielding Connection**
- ▶ **Machined and Stamped Contacts**
- ▶ **High Performance in Harsh Environment**

360° ELECTROMAGNETIC SHIELDING

Smiths Connectors M23 series, are ideal for motor-drive applications, including machine tools, robots, conveyor systems, handling machines and elevators, etc. They all feature outstanding protection against electromagnetic interference through a full 360° screen connection.

CRIMP TERMINATION

The adoption of crimp contacts allows for a consistent high quality connection and reduces the total installation time of a connector by minimising the number of operations. M23 connectors can be supplied with either machined or stamped contacts and therefore a hand-operated or fully automatic crimping process can be used. Stamped contacts are supplied on a reel and feature an open crimp barrel design, making them ideal for higher volume applications requiring a fully automated process. Machined contacts feature a

closed barrel design ideally suited for manual hand tools. By their very nature, open barrel crimp contacts can accommodate a wider range of wire gauges and therefore they can also be used to limit the number of contact types required on applications containing mixed cable sizes.

HYPERTAC HYPERBOLOID CONTACT

Hyperboloid contact technology is ideally suited 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 reliability, number of mating cycles, low contact forces and electrical stability over time.

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

TYPE OVERVIEW

A broad product range that covers a multitude of Industrial applications containing motor drive technologies from factory automation & Robotics to conveyor systems.



For more types please contact factory

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TECHNICAL CHARACTERISTICS

FEATURES

- ▶ Compatible with conventional M23 connectors
- ▶ Crimp contacts for various cross sections
- ▶ Various types of cable clamps
- ▶ 360° EMC shielding connection
- ▶ Vibration Resistant
- ▶ Ground connection for power connectors
- ▶ RoHS compliant
- ▶ UL/CSA approval file No. 178462

SPECIFICATIONS

- ▶ **Shell:** CuZn, zinc die-cast, aluminium, plastics
- ▶ **Shell plating:** nickel-plated, chemical nickel-plated
- ▶ **Inserts:** 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
- ▶ **IP-Code:** IP 67 (mated)

Signal

- ▶ **Max. nominal current:** 9 A @ 20°C
- ▶ **Max. operating voltage:** 50 V ~ / 120V =
- ▶ **Contact resistance:** <3 mΩ

Power

- ▶ **Max. nominal current:** 22 A @ 20°C
- ▶ **Max. operating voltage:** 630 Vrms
- ▶ **Contact resistance:** <3 mΩ

smiths connectors