# M58 High Power Connectors

Series V, Size 3



The Smiths Interconnect M58 series is designed for high power applications in high voltage power generation, mechanical engineering, rolling mill drives, mechatronics, heavy printing and paper making machines, conveyors and marine applications.

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.

In addition the series features outstanding protection against electromagnetic interference through a full 360  $^\circ$  screen shielding.

### Suitable for High Power Applications

## Features & Benefits

### Superior Performance

- Long life and low rate of wear through excellent shock and vibration resistance
- Outstanding protection against electromagnetic interference through a full 360° screen shielding
- Corrosion resistant

#### **High Power Applications**

- Crimp contacts for wire diameter from 10 mm<sup>2</sup> to 50mm<sup>2</sup>
- Ground connection

#### **UL certified**

UL/CSA approval file No. 178462

### Technical Characteristics

### Material & Finishes

Shell	Aluminium, brass
Shell plating	Chemical nickel plated
Inserts	PA
Contacts	CuZn, CuBe
Contact plating	gold plated, silver plated
Sealing	FKM, NBR
Storage conditions	-40°C to 70°C / humidity 40%

### **Electrical**

Nominal current	165 A @ 20°C (Ø 10 mm) 15 A @ 20°C (Ø 1.6 mm)	
Operating voltage	630 Vrms (Ø 10 mm) 125 Vrms (Ø 1.6 mm)	
Contact resistance	<1 mΩ (Ø 10 mm) <3 mΩ (Ø 1.6 mm)	
Overvoltage category	III	

### Physical & Environmental

Opertating temperature range	-40°C to 125°C	
Environmental level	IP67 (mated)	
Contamination level	3 (mated)	
Installation altitude	up to 2000 m	
Fire & Smoke	UL94 VO	
RoHS	Compliant	

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