



# MG MOTIONGRADE™

MotionGrade™ M23 and M40 Circular DIN Connectors are designed to excel in performance and reliability in the most demanding environments.



All M23 and M40 products are IP67 rated and RoHS Compliant. Ideally suited for advanced servo drive encoder feedback applications, packaging, robotic, printing, machine tool, medical and automation environments where control signal transmission or power are required in a robust and compact delivery system.

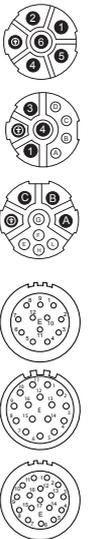
## M23 Elite™ Checkmate™ Connectors

Featuring our Checkmate™ Quick-Locking Coupling System in place of our Traditional Threaded Coupling System. Available in **Power**, **Signal** and **Hybrid** (Power, Signal and Data) configurations.

**Power Series:** 6, 8, and 9 positions: 30A Max Current; 630V Max Voltage; 14-16AWG (6-9 pos)

**Signal Series:** 12, 16, and 17 positions: 10A Max Current; 160V (12 pos), 125V (16-17 pos); 18-26AWG (12-17 pos)

- Distinctive alignment arrows with Lock/Unlock symbols ensure a solid connection everytime
- Faster Assembly, Less Components, Compact Design
- Loose-Piece Insert for Hand-Held Assembly
- Top-Loading Design (for 90° Receptacles) w Locking Screw
- Clamshell Insert for Easy Contact Insertion/Extraction (for **Power** and **Hybrid Series**)
- Vibration and shock tested up to 20g (vibration) and 50g (shock) in 3 axis
- Operating Temperature -20°C to +130°C
- Housing: Zinc, die-cast, nickel-plated
- 330° Rotatable Base Design for 90° Receptacles
- Cable Clamping Range: 4.5mm – 17mm
- 360° Shielding
- Protective Dust Caps Available



**Hybrid Series:** 8 and 15 positions: **Ethernet:** 1.2A, 30V AC/DC; **Signal:** 1.2A, 30V AC/DC; **Power:** 30A, 630V AC/850V DC

All-in-one design that combines **Power**, **Signal** and **Data** in a singular housing)

- 8 Position: 2 Power + PE + 1 Signal + 4 Quadrax Ethernet Element
- 15 Position: 4 Power + PE + 6 Signal + 4 Quadrax Ethernet Element
- Faster Assembly, Compact Design
- Vibration and shock tested up to 20g (vibration) and 50g (shock) in 3 axis
- Operating Temperature -20°C to +130°C
- Housing: Zinc, die-cast, nickel-plated
- Cable Clamping Range: 7.5mm – 17mm
- 360° Shielding



Standard products. Custom solutions  
Customer Service +1 800 394 7732



### M23 Elite™ Threaded Connectors

Featuring our **Traditional Threaded Coupling System** in place of our Checkmate™ Quick-Locking Coupling System. Available in **Power, Signal** and **Hybrid** configurations.

**Power Series:** 6, 8, and 9 positions: 30A Max Current; 630V Max Voltage; 14-16AWG (6-9 pos)

**Signal Series:** 12, 16, and 17 positions: 10A Max Current; 160V (12 pos), 125V (16-17 pos); 18-26AWG (12-17 pos)

- Faster Assembly, Less Components, Compact Design
- Loose-Piece Insert for Hand-Held Assembly
- Top-Loading Design (for 90° Receptacles) w Locking Screw
- Clamshell Insert for Easy Contact Insertion/Extraction (for **Power Series Only**)
- Vibration and shock tested up to 20g (vibration) and 50g (shock) in 3 axis
- Operating Temperature -20°C to +130°C
- Housing: Zinc, die-cast, nickel-plated
- 330° Rotatable Base Design for 90° Receptacles
- Cable Clamping Range: 4.5mm – 17mm
- 360° Shielding
- Protective Dust Caps Available



### M40 Threaded Connectors

Featuring our **Traditional Threaded Coupling System** in place of our Checkmate™ Quick-Locking Coupling System.

**Power Series:** 6 and 8 positions: 75A Max Current; 630V Max Voltage; 8-12AWG

- Vibration and shock tested up to 20g (vibration) and 50g (shock) in 3 axis
- Operating Temperature -20°C to +130°C
- Housing: Zinc, die-cast, brass, nickel-plated
- Cable Clamping Range: 7.5mm – 26mm
- 360° Shielding



### M23 and M40 Custom Solutions

Amphenol Sine Systems offers custom molded cable assembly solutions across all our standard product lines. If one of our standard products doesn't fit your specific needs, our Engineers will work with you to custom design a solution specific to your application. Whether you are looking for a customized connector solution, a complete turn-key cable assembly solution, custom wiring to simplify machine assembly or a specific mold color, Amphenol Sine Systems is your one source for proven, reliable and innovative results.



**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)