



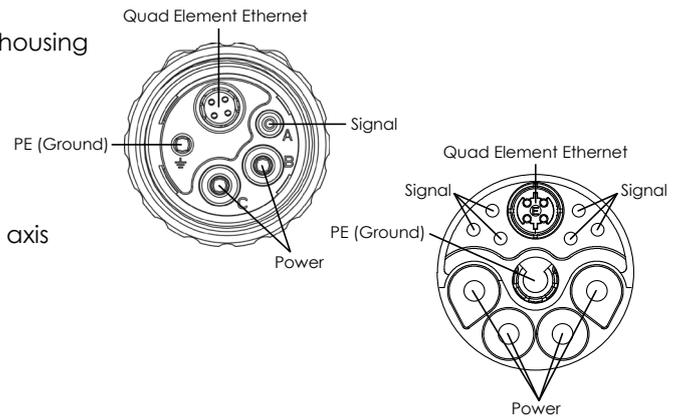
## MotionGrade™ M23 Hybrid Series

**Our MotionGrade™ M23 Hybrid Connector Series is designed to excel in the most demanding decentrally controlled, daisy-chained environments.**

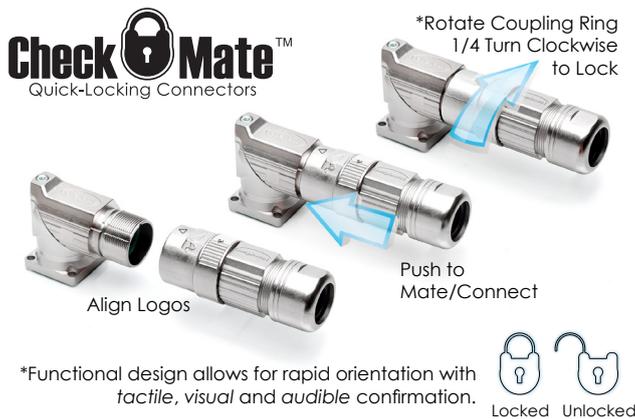
Ideally suited for applications where Power, Signal and Data are necessary, such as Robotics, Machine Tool, and any other industrial application requiring a rugged, compact delivery system.

**Hybrid Series:** 8 and 15 positions

- All-in-one design that combines **Power, Signal** and **Data** in a singular housing
- **8 Position:** 2 Power + PE + 1 Signal + 4 Quad Ethernet Element
- **15 Position:** 4 Power + PE + 6 Signal + 4 Quad 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° EMI Shielding



Featuring either our **Checkmate™ Quick-Locking Coupling System** or our **Traditional Threaded Coupling System**.



Standard products. Custom solutions  
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## M23 Hybrid Series - Technical Specifications

|                        |   |                           |  |
|------------------------|---|---------------------------|--|
| Temperature Range      | -20 - +130°C  | Over Voltage Category     | III, Per VDE 0110/EN61984, part 6.19.2.2   |
| Max. Current Amperage  | <b>8 Pos: Power: 18A; Signal: 1.0A; Ethernet: 0.5A</b><br><b>15 Pos: Power: 30A; Signal: 1.2A; Ethernet: 1.2A</b>       | Strain Relief Clamp Range | 7.5-17mm   |
| Voltage Rating (AC/DC) | <b>8 Pos: Power: 850V; Signal: 850V; Ethernet: 30V</b><br><b>15 Pos: Power: 630/850V; Signal: 30/50V; Ethernet: 30V</b> | Number of Contact (mm)    | <b>8 Pos: 2 Power + PE (2.0mm) + 1 Signal (1.0mm)</b><br><b>+ 4 Quad Ethernet Element (0.7mm)</b><br><b>15 Pos: 4 Power + PE + 6 Signal + 4 Quad Ethernet Element</b>  |
| Contact Resistance     | < 15m Ω   | Wire Range                | <b>8 and 15 Pos: 2.5 - 1.0mm<sup>2</sup> (2.0mm) - 14-20AWG</b><br><b>8 and 15 Pos: 1.0 - 0.34mm<sup>2</sup> (1.0mm) - 18-22AWG</b><br><b>8 Pos: 0.34 - 0.08mm<sup>2</sup> (0.7mm) - 28AWG</b><br><b>15 Pos: 0.33 - 0.13mm<sup>2</sup> (0.06mm) - 22-26AWG</b> |
| Min. Mating Cycles     | < 500   | Housing Body              | Zinc Die-cast, Nickel-plate  |
| Transmission Rate      | Quad Element -100MBit (CAT 5)   | Insulation Inserts        | <b>8 Pos: PBT, UL94/V0; 15 Pos: PA66, UL94/V0</b>  |
| Test Voltage Rating    | 6000V (2.0mm); 1500V (1.0mm);<br>500V (Quad Element)  | Contacts                  | Copper Alloy, Gold-plated  |
| Sealing Protection     | IP66/67 (in mated condition)  | Sealing Material          | DuPont Viton®  |
| Protective Grounding   | Per VDE 0627  |                           |  |
| Safety Protection      | Per VDE 0623  |                           |  |
| Degree of Protection   | 3, Per VDE 0110/EN61984, part 6.19.2.2  |                           |  |

## M23 Hybrid Series - Available Parts

| Part Number      | Description  |
|------------------|--|
| MB1WSN8H00       | <b>M23, Hybrid</b> , Female Plug 8 pos, (3+1+4), Straight, Panel Mount, Threaded Coupling                            |
| MB3XSN8HS1       | <b>M23, Hybrid</b> , Female Plug 8 pos, (3+1+4), Straight, 7.5-11.0mm Cord Grip, Threaded Coupling                   |
| MB3XSN8HS2       | <b>M23, Hybrid</b> , Female Plug 8 pos, (3+1+4), Straight, 11.0-14.0mm Cord Grip, Threaded Coupling                  |
| MB3XSN8HS3       | <b>M23, Hybrid</b> , Female Plug 8 pos, (3+1+4), Straight, 14.5-17mm Cord Grip, Threaded Coupling                    |
| MB1YSN8H00       | <b>M23, Hybrid</b> , Male Receptacle, 8 POS (3+1+4), Straight panel mount, Threaded Coupling                         |
| MB3ZSN8HS1       | <b>M23, Hybrid</b> , Male Receptacle 8 pos, (3+1+4), Straight, 7.5-11.0mm Cord Grip, Threaded Coupling               |
| MB3ZSN8HS2       | <b>M23, Hybrid</b> , Male Receptacle 8 pos, (3+1+4), Straight, 11.0-14.0mm Cord Grip, Threaded Coupling              |
| MB3ZSN8HS3       | <b>M23, Hybrid</b> , Male Receptacle 8 pos, (3+1+4), Straight, 14.5-17.0mm Cord Grip, Threaded Coupling              |
| MB5CKN1500H00-S1 | <b>M23, Hybrid</b> , Female Plug, 15pos, (5+6+4), Straight, 7.5-11.0mm Cord Grip, Checkmate™ Quick-Locking Coupling  |
| MB5CKN1500H00-S2 | <b>M23, Hybrid</b> , Female Plug, 15pos, (5+6+4), Straight, 11.0-14.5mm Cord Grip, Checkmate™ Quick-Locking Coupling |
| MB5CKN1500H00-S3 | <b>M23, Hybrid</b> , Female Plug, 15pos, (5+6+4), Straight, 14.5-17.0mm Cord Grip, Checkmate™ Quick-Locking Coupling |
| MB5RJN15H01      | <b>M23, Hybrid</b> , Male Receptacle, 90°, 15 Pos (5+6+4), Flange Mount, Checkmate™ Ready                            |
| SC000463         | <b>M23, Hybrid</b> , 2.0mm Pin, 14-18AWG (for use on MB5RJN15H01 Only)   |
| SC000465         | <b>M23, Hybrid</b> , 1.0mm Pin, 18-22AWG (for use on MB5RJN15H01 Only)   |
| SC000459         | <b>M23, Hybrid</b> , 0.6mm Pin, 22-26AWG (for use on MB5RJN15H01 Only)   |
| SC000462         | <b>M23, Hybrid</b> , 2.0mm Socket, 14-18AWG (for use on MB5CKN1500H00-S1, S2, S3 Only)                               |
| SC000466         | <b>M23, Hybrid</b> , 1.0mm Socket, 18-22AWG (for use on MB5CKN1500H00-S1, S2, S3 Only)                               |
| SC000460         | <b>M23, Hybrid</b> , 0.6mm Socket, 22-26AWG (for use on MB5CKN1500H00-S1, S2, S3 Only)                               |
| SC000259         | <b>M23, Hybrid</b> , 1.0mm Socket, 18-22AWG  |
| SC000260         | <b>M23, Hybrid</b> , 2.0mm Socket, 14-20AWG  |
| SC000264         | <b>M23, Hybrid</b> , 0.7mm Socket, 22-28AWG  |
| SC000261         | <b>M23, Hybrid</b> , 1.0mm Pin, 18-22AWG   |
| SC000262         | <b>M23, Hybrid</b> , 2.0mm Pin, 14-18AWG   |
| SC000263         | <b>M23, Hybrid</b> , 0.7mm Pin, 22-28AWG   |

ISO 9001/2000



ECBT2/ECBT8 UL

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