



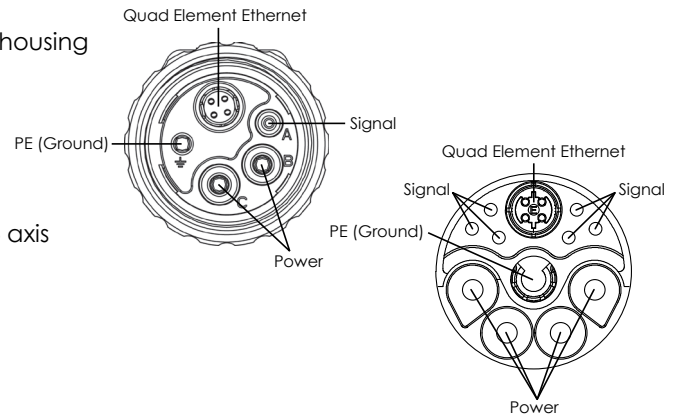
MotionGrade™ M23 Hybrid Series

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**.

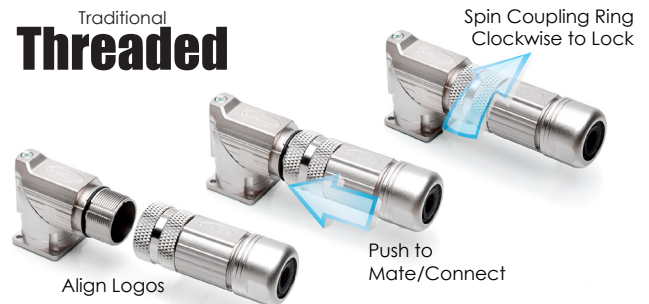
Check Mate™
Quick-Locking Connectors



*Functional design allows for rapid orientation with tactile, visual and audible confirmation.



Traditional
Threaded



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

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	8 Pos: Power: 18A; Signal: 1.0A; Ethernet: 0.5A 15 Pos: Power: 30A; Signal: 1.2A; Ethernet: 1.2A	Strain Relief Clamp Range	7,5-17mm
Voltage Rating (AC/DC)	8 Pos: Power: 850V; Signal: 850V; Ethernet: 30V 15 Pos: Power: 630/850V; Signal: 30/50V; Ethernet: 30V	Number of Contact (mm)	8 Pos: 2 Power + PE (2.0mm) + 1 Signal (1.0mm) + 4 Quad Ethernet Element (0.7mm) 15 Pos: 4 Power + PE + 6 Signal + 4 Quad Ethernet Element
Contact Resistance	< 15m Ω	Wire Range	8 and 15 Pos: 2.5 - 1.0mm ² (2.0mm) - 14-20AWG 8 and 15 Pos: 1.0 - 0.34mm ² (1.0mm) - 18-22AWG 8 Pos: 0.34 - 0.08mm ² (0.7mm) - 28AWG 15 Pos: 0.33 - 0.13mm ² (0.06mm) - 22-26AWG
Min. Mating Cycles	< 500	Housing Body	Zinc Die-cast, Nickel-plate
Transmission Rate	Quad Element -100MBit (CAT 5)	Insulation Inserts	8 Pos: PBT, UL94/V0; 15 Pos: PA66, UL94/V0
Test Voltage Rating	6000V (2.0mm); 1500V (1.0mm); 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	M23, Hybrid. Female Plug 8 pos. (3+1+4), Straight, Panel Mount, Threaded Coupling
MB3XSN8HS1	M23, Hybrid. Female Plug 8 pos. (3+1+4), Straight, 7.5-11.0mm Cord Grip, Threaded Coupling
MB3XSN8HS2	M23, Hybrid. Female Plug 8 pos. (3+1+4), Straight, 11.0-14.0mm Cord Grip, Threaded Coupling
MB3XSN8HS3	M23, Hybrid. Female Plug 8 pos. (3+1+4), Straight, 14.5-17mm Cord Grip, Threaded Coupling
MB1YSN8H00	M23, Hybrid. Male Receptacle, 8 POS (3+1+4), Straight panel mount, Threaded Coupling
MB3ZSN8HS1	M23, Hybrid. Male Receptacle 8 pos. (3+1+4), Straight, 7.5-11.0mm Cord Grip, Threaded Coupling
MB3ZSN8HS2	M23, Hybrid. Male Receptacle 8 pos. (3+1+4), Straight, 11.0-14.0mm Cord Grip, Threaded Coupling
MB3ZSN8HS3	M23, Hybrid. Male Receptacle 8 pos. (3+1+4), Straight, 14.5-17.0mm Cord Grip, Threaded Coupling
MB5CKN1500H00-S1	M23, Hybrid. Female Plug, 15pos. (5+6+4), Straight, 7.5-11.0mm Cord Grip, Checkmate™ Quick-Locking Coupling
MB5CKN1500H00-S2	M23, Hybrid. Female Plug, 15pos. (5+6+4), Straight, 11.0-14.5mm Cord Grip, Checkmate™ Quick-Locking Coupling
MB5CKN1500H00-S3	M23, Hybrid. Female Plug, 15pos. (5+6+4), Straight, 14.5-17.0mm Cord Grip, Checkmate™ Quick-Locking Coupling
MB5RJN15H01	M23, Hybrid. Male Receptacle, 90°, 15 Pos (5+6+4), Flange Mount, Checkmate™ Ready
SC000463	M23, Hybrid. 2.0mm Pin, 14-18AWG (for use on MB5RJN15H01 Only)
SC000465	M23, Hybrid. 1.0mm Pin, 18-22AWG (for use on MB5RJN15H01 Only)
SC000459	M23, Hybrid. 0.6mm Pin, 22-26AWG (for use on MB5RJN15H01 Only)
SC000462	M23, Hybrid. 2.0mm Socket, 14-18AWG (for use on MB5CKN1500H00-S1, S2, S3 Only)
SC000466	M23, Hybrid. 1.0mm Socket, 18-22AWG (for use on MB5CKN1500H00-S1, S2, S3 Only)
SC000460	M23, Hybrid. 0.6mm Socket, 22-26AWG (for use on MB5CKN1500H00-S1, S2, S3 Only)
SC000259	M23, Hybrid. 1.0mm Socket, 18-22AWG
SC000260	M23, Hybrid. 2.0mm Socket, 14-20AWG
SC000264	M23, Hybrid. 0.7mm Socket, 22-28AWG
SC000261	M23, Hybrid. 1.0mm Pin, 18-22AWG
SC000262	M23, Hybrid. 2.0mm Pin, 14-18AWG
SC000263	M23, Hybrid. 0.7mm Pin, 22-28AWG

ISO 9001/2000



ECBT2/ECBT8 UL

For more information, contact: Kate Wilton, Product Manager, +1 586 709 8910, kwilton@amphenol-sine.com