

## M 23 CONNECTORS



Signal, Power and Industrial Ethernet

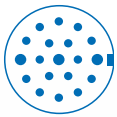
## M 23: the all-rounder

Signal, Power or Industrial Ethernet – the circular connectors of the M 23 family offer an ideal solution for every application. In addition, the modular concept ensures an enormous variety of variants. Because with the HUMMEL-circular connectors the housings, the inserts and contacts can be combined. Flexibility is also the motto for connecting tasks. The M 23 circular connectors are available with the classic screw connection, with the TWILOCK quick-lock and in the TWILOCK-S version which is matable with the Speedtec coupling system.

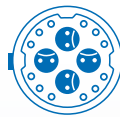
- // Signal, Power, Industrial Ethernet
- // Modular concept: Housings and inserts can be combined
- // Threaded or TWILOCK quick-lock coupling
- // TWILOCK-S: matable with Speedtec
- // Approved according to UL, CSA and VDE



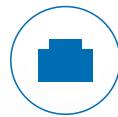
Signal



Power



Industrial Ethernet



## Robust and easy to assemble

Compact design and robustness proven in industry: These are the trademarks of all HUMMEL circular connectors. This also applies to many housing types in the M 23 series. In addition to cable and plug connectors many variants of panel connectors are available to the user.

Ease of assembly is an important characteristic of the right angled M 23 panel connector. Locking screws are easily accessible, visible markings simplify the plugging. The plug connectors are thus also ideal for use in working environments that are restricted or difficult to access. Further advantages of the M 23 panel connector:

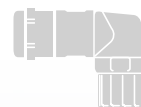
- // Smallest dimensions with a robust design
- // Matable with Speedtec
- // Versions for power, signal and hybrid
- // Flange sizes 25 and 28 millimetres
- // Sturdy turning mechanism with an angle of rotation > 300 degrees
- // Available with various surfaces



Straight Connector



Panel Connector



Right Angle Connector



Versions TWILOCK / TWILOCK-S



# SIGNAL / POWER

## Signal

This tried and tested connecting system is widely used in industry. The free to assemble connectors can convince with robustness and reliability. The modular system, in which housings and inserts are interchangeable, offers the user a large number of possibilities.

- // Many housing types
- // Large variety
- // Threaded or TWILOCK quick-lock coupling
- // Matable with Speedtec

## M 23 Signal

- // Cable inlet 3 to 17 mm
- // Contact configurations 6, 7, 8+1, 10, 12, 16, 17, 16+3 available
- // Type of contacts: crimp, solder, clip-solder
- // All codings already integrated per default
- // Protection class IP 67 / IP 69K (locked)



## Power

The M 23 power connector is able to cover a wide spectrum of applications. With 6-, 8- or 9-pole applications and power data of up to 28 A / 630 V this connection system can match the greatest challenges with respect to power transmission. The connection system has successfully been tested for protection class IP 67 and IP 69K (locked).

- // High power transmission
- // Many housing types
- // Threaded or TWILOCK quick-lock coupling
- // Matable with Speedtec

## M 23 Power

- // Number of poles 5+PE, 4+3+PE, 5+3+PE
- // 28 A / 630 V
- // Up to 17 mm cable diameter
- // Crimp assembly
- // Housings and inserts can be freely combined



## Industrial Ethernet

Safe data transmission in restricted spaces in a rough industrial environment – those are the requirements for Industrial Ethernet applications. Here HUMMEL can offer three connecting systems:

- // M 23 Hybrid: the compact all-in-one-solution
- // M 23 RJ 45 securely accepts industrial patch-cable
- // M 23 Profinet transmits data at a rate in the gigabit-range

## M 23 Hybrid

- // Power, Ethernet and signals
- // Ideal for single-cable applications
- // HIPERFACE DSL and ENDat 2.2 BiSS
- // Data transmission up to 500 Mbit/s
- // Simple assembly
- // ≤ Cat. 5e



## M 23 Profinet

- // Data transmission up to gigabit
- // Multibus II capable
- // Five separate shield potentials
- // Continuous shielding of the data inserts
- // Simple shield connection
- // ≤ Cat. 7



## M 23 RJ 45

- // RJ 45-Patch-cable for industrial applications
- // Ideal as a maintenance interface
- // Small footprint
- // Also available as Ex-i-variant
- // High strain relief and impermeability, IP 67 / IP 69 K (locked)
- // ≤ Cat.5e



# ELECTRIC COMPONENTS

## Cable Glands

Polyamide-, Brass- and Stainless steel,  
EMC-connections, Ex e-, Ex d-, Ex ta-Cable Glands



## Circular Connectors

M 8 to M 40, INOX, TWILOCK, Industrial Ethernet,  
Power, Signal, Hybrid-Connector, Moulded Cordsets



## Conduit Systems

Corrugated Conduit Systems, Conduit Cable Glands, Angled Systems,  
combined Cable Glands, Accessories



## Cable Assembly

Moulded Signal- and Power Circular Connectors,  
Servo Cables, Cable Sets



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