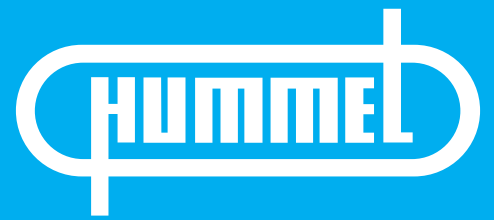


NEW



Setting Standards

M 23 Hybrid



The Hybrid Connector for Single Cable Solutions



M23 Hybrid

The benefits at a glance:

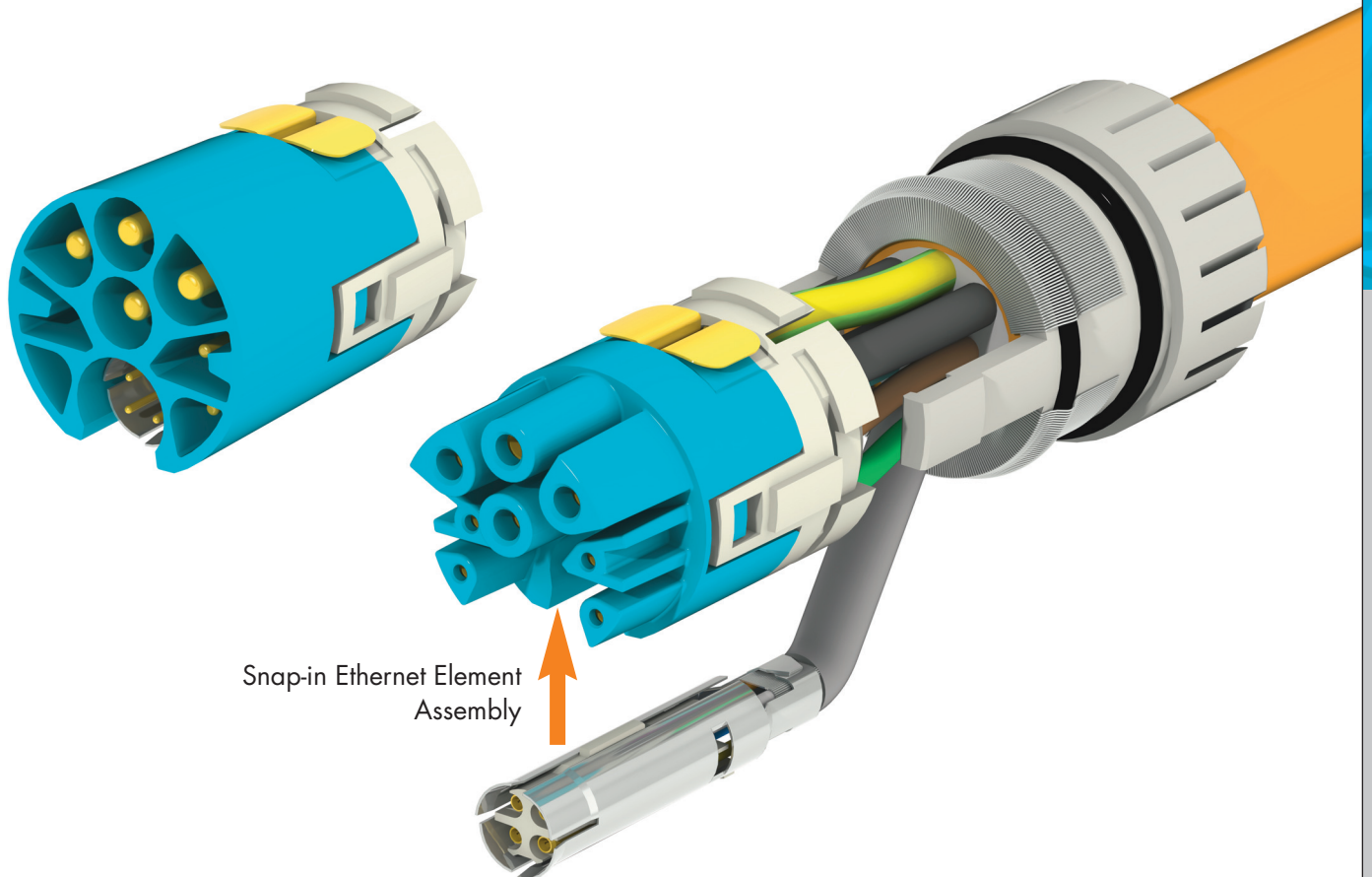
- + Fully integrated solution for Industrial Ethernet applications
- + Fits perfect for HIPERFACE® DSL and EnDat 2.2 use
- + High Performance
- + Full modularity with Nickel Plated Brass and Stainless Steel Shells
- + TWILOCK quick connect system

Simple & cost effective assembly

Individual shielded options prevent cross talking

Secure 360° EMI shielding

Fully protected inserts allow robust handling



State-of-the-art Industrial Ethernet Solution

The all-in-one compact M23 Hybrid allows transmitting of Power, Signals and Ethernet. This connector permits transmitting high speed data per CAT 5e standards. Hybrid M23 is the ideal single-cable solution for the Automation and Robotics Industry.



M23 Hybrid

| Mechanical Data | Materials and Technical Data |
|-------------------------------------|---|
| Housing | Copper-Zinc alloy Die Cast |
| Housing surface | Nickel plated other surface upon request |
| Inserts (for contacts) | Thermoplastic Polyamid PA 6 (Nylon 6/6), PBT Fire protection class V-0 |
| Contacts | Brass Alloy |
| Contact surface at point of contact | Nickel and gold plated (0,25µm Au) |
| Minimum mating cycles | > 1000 |
| Seals / O-Rings | Perbunan NBR (Standard), (Viton) FPM |
| Temperature range | -40° C – 125° C |
| Type of contacts | Crimp, dip-solder (PCB) |
| Protection | IP 67 / IP 69 K per EN 60 529 (connected) |
| Cable diameter range | 3 – 17 mm, multi holes seals on request |

| Electrical Data | 4 + 4 + 3 + PE | | |
|---|--------------------|--------------------|-------------------|
| | Power | Signal | Ethernet |
| Number of positions | | | |
| Number of contacts | 4 | 4 | 4 |
| Contact-Ø [mm] | 2 | 1 | 0,6 |
| AWG [mm ²] | 0,5 – 4 | 0,14 – 1 | 0,08 – 0,34 |
| Nominal current ¹⁾ [A] | 28 | 8 | 2 |
| Nominal voltage ²⁾ [V~] degree of protection ^{3 4)} | 630 | 300 | 60 |
| Test voltage (Breakdown voltage) ³⁾ [V~] | 4000 | 2500 | 500 |
| Insulation resistance [MΩ] | > 10 ¹³ | > 10 ¹⁰ | > 10 ⁶ |
| Max. contact resistance [mΩ] | < 3 | < 3 | < 3 |

Connector solutions to transmit Industrial Ethernet

- + Designed for Industrial use: robust, reliable, compact
- + Protection rating: IP67 NEMA 4X & IP69K
- + Most reliable Cable Strain Relief

M23 Hybrid

- + Power, Ethernet and Signals for Single-Cable-Solutions
- + Data transmission up to 500 Mbit/s



M23RJ45

- + Design for terminated patch cables



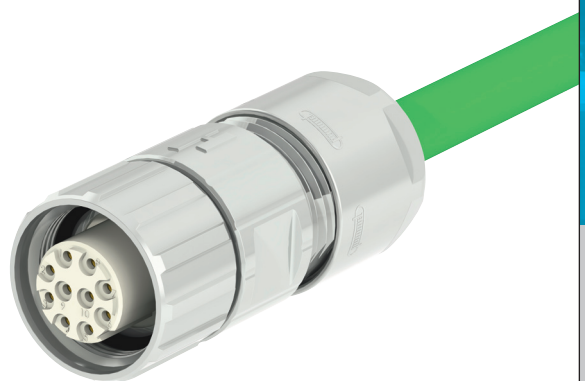
M23 Profinet

- + Data transmission up to Gigabit, Multi-bus II capability
- + Five separate shield potentials available



M16 (10pole)

- + Low profile option



HUMMEL AG

Lise-Meitner-Straße 2
79211 Denzlingen
Germany
www.hummel.com

Tel. +49 (0) 76 66 / 9 11 10-0
Fax +49 (0) 76 66 / 9 11 10-20
E-Mail info@hummel.com

