PRODUCT RANGE
CIRCULAR CONNECTORS

MUCH MORE VARIETY
Huge Range
M 8 to M 40

Much more Variety
HUMMEL Circular Connectors are used in various industrial areas of applications. The product range includes the sizes from M 8 to M 40. Power or signal connectors, Industrial Ethernet or customized solutions — HUMMEL offers the right solution for every application. Flying connectors, male, female, straight, angled, panel connectors, also available as TWILOCK quick connect system. Versions in INOX are available for harsh environment applications.

Cope with all requirements
All HUMMEL Connectors meet the highest requirements on industrial applications. They fulfill the protection IP 67 and IP 69K (connected) and have a high vibration resistance. The 360° shielding guarantees a secure EMC-protection. HUMMEL Connectors have an exceptional quality and are internationally certified.

CIRCULAR
M 8
Industrial Ethernet
Modularity and Flexibility

The compact housings of the HUMMEL Circular Connectors are ensuring a high power transfer on small space. Further benefits are user friendly assembly and excellent electrical characteristics of the components.

- Highest contact reliability with SLS-Technology (Spring Loaded Socket)
- One step cable assembly and shielding
- Interchangeability of pin and socket inserts in every connector housing style
- Clear and modular structure of all connector series
## INDUSTRIAL ETHERNET / SIGNAL

<table>
<thead>
<tr>
<th>M 23 Hybrid</th>
<th>M 23 RJ 45</th>
<th>M 16 (10 pole)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
</tbody>
</table>
| // Power, Ethernet and Signal  
// Ideal single-cable-solution  
// HiPERFACE DSL® and EnDat 2.2 BiSS  
// Data transfer up to 500 Mbit/s  
// Easy and quick assembly  
// ≤ Cat.5e  
// TWILOCK quick connect system available | // Compact RJ45-Patch cable for industrial use  
// Cable diameter 3 – 7 mm  
// Small footprint  
// Ideal as service interface  
// Also as Ex-i-version available  
// Integrated cable strain relief, protection IP 67  
// ≤ Cat.5e, Cat.6a | // Compact housing (< 20 mm)  
// Cable diameter 3 – 11 mm  
// Industrial-suited design  
// ≤ Cat.5e  
// One step cable assembly and shielding  
// TWILOCK quick connect system available |

<table>
<thead>
<tr>
<th>M 23 Profinet</th>
<th>M 8, M 12 Signal</th>
<th>M 16 (pole &gt;10)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
</tbody>
</table>
| // Data transfer up to Gigabit rate, Multibus II capability  
// Cable diameter 11 – 17 mm  
// Five separate shield potentials available  
// End-to-end shielding of data inserts  
// Easy shield connections  
// ≤ Cat.7 | // Moulded connector cordsets  
// Straight and angled design  
// T- and Y-versions for M 12  
// Cable and panel connector housings | // Number of positions: 12+3, 12+6  
// Cable diameter 3 – 11 mm  
// Compact housing (< 20 mm)  
// Interchangeability of pin or socket inserts  
// TWILOCK quick connect system available |

Dimensions and specifications may be changed without prior notice.
### M12 Power

- Maximum power density
- Cable diameter 3 – 11 mm
- Power transmission up to 630 V and 16 A
- Robust metal housing, optional stainless steel
- EMC-shielding in standard version
- Coding K, L, S, T
- Field attachable and compact design
- Moulded connector cordsets

### M23 Power

- Number of positions: 26, 28
- Cable diameter 7 – 17 mm
- Crimp, solder or dip solder contacts
- Interchangeability of pin or socket inserts
- Coding K, L, S, T
- Field attachable and compact design
- Moulded connector cordsets

### M16 (pole <10)

- Number of positions: 3, 6+PE, 4+3+PE
- Cable diameter 3 – 11 mm
- 20 A / 400 V or 16 A / 600 V
- Interchangeability of pin or socket inserts
- Crimp or dip solder contacts
- TWILOCK quick connect system available
- Compact design (< 20 mm)

### M27 Signal

- Number of positions: 6, 7, 8+1, 10, 12, 16, 17, 16+3
- Cable diameter 3 – 17 mm
- Crimp, solder, dip solder or SUB-D-contacts
- Multiple coding possibilities
- Interchangeability of pin or socket inserts
- TWILOCK quick connect system available
- Intermateable with Speedtec

### M40 Power

- Number of positions: 2+3+PE, 4+3+PE
- Cable diameter 13 – 28 mm
- 55 A / 600 V
- Max. 16 mm²
- User-friendly installation
- TWILOCK-S: intermateable with Speedtec

* under development
TWINTUS
- Low-cost-standard for Drives
- Minimized size, 2 flange sizes, 2 flange height
- Free choice of signal and power inserts
- Designs M 16 / M 12 and M 16 / M 16
- Perfect for daisy chain applications

TWILOCK
- M 16, M 23 and M 40 (TWILOCK-S)
- Quick Connect with polygon lock
- Multifunctional: special thread allows use of TWILOCK and screw connection
- Resistant to vibration
- TWILOCK-S: interchangeable with Speedtec
- Substantial reduction of connection time

Stainless Steel (INOX)
- M 16, M 23 and M 40
- Housing: stainless steel V4A (AISI 316 L / 1.4404)
- Perfect for harsh applications
- Appropriate for food & beverage, pharma and offshore-applications

Moulded Cordsets
- M 8, M 12, M 16, M 23 and M 40
- Overmoulding in various colours
- Manipulation safe
- Straight connectors and right angle connectors
- Shielded or unshielded

Customized Solutions
- Integration of different media
- Adaptation to specific requirements
- Exclusive customized solutions and adaptations
- Combination of compressed air and electrical signals in one circular connector

Multifunctional
- Several conductors or cables in one circular connector
- MULTI seal connector
- Flexible conduit connector
- Strain relief
CIRCULAR INDUSTRIAL CONNECTORS — JAEGER BY HUMMEL

**Standard Series**
- Also available as Thermocouple and High Voltage
- Multi pole with 3—52 soldering contacts
- Screw connection
- IP 50 — IP 64
- Rectangular housing with 3 possible cable outlets

**Marine Series**
- Material: ARCAP — excellent corrosion resistance
- Multi pole with 3—37 solder or crimp contact
- Screw connection
- IP 68
- Waterproof: 10 bars
- Appropriate for underwater applications and harsh environments

**Hermetic Series**
- Ideal for vacuum applications
- Multi pole with 3—52 soldering contacts
- Screw connection
- Leak rate: 10-9 Atm. cm² / s with Helium
- Appropriate for high pressure and gas tight applications

**Industrial Series**
- Robust, industrial-suited design
- Multi pole with 3—27 solder or crimp contact
- 1/6 turn quick connect system
- IP 50 — 65
- Rectangular / cylindrical housing

**Miniature Series**
- High contact density in compact housing
- Multi pole with 12—55 solder or crimp contact
- 1/6 turn quick connect system
- IP 50 — 65
- Rectangular / circular housing

**Neptunox Series**
- Waterproof: 10 bars
- Multi pole with 3—37 solder or crimp contact
- Screw connection
- IP 68
- Material: stainless steel 303

Dimensions and specifications may be changed without prior notice
ELECTRIC COMPONENTS

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

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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