Introduction

FIELD WIREABLE CONNECTORS - SAVE UP TO 25% OF YOUR TIME

Fast, process safe, intuitive and made for harsh industrial environments: field wireable connectors save up to 25% time and simplify the installation of ethernet networks.

Reduce the time and effort required to install industrial networks. For field work directly at the machine, HARTING offers 3 genius connector solutions that can be mounted quickly and intuitively without special tools, allow flexible cable lengths and are robust for industrial environments.

FIELD WIREABLE CONNECTORS - CHECK 3 GENIUS HELPERS

RJ Industrial® Multifeature
Absolutely robust and reliable with integrated cutting tools for quick, easy and tool-less assembly.

preLink® Ethernet cabling system
Highly flexible all-purpose solution (RJ45, M12, Extender) that can be connected in seconds using a termination block.

HARAX® toolless rapid termination
M8 and M12 circular connectors can be easily assembled by hand on-site. The contact is established via insulation displacement contacts.
RJ Industrial® RJ45 Multifeature connectors

- RJ Industrial® connector Multi-Featured
  - 4 IDC contacts, can be assembled in the field without tools
  - Conductors AWG 26-22, solid/stranded
  - Transmission rate: 10/100 Mbit/s
  - Integrated blades cut the wire cones to the correct length
  - CAT 6
  - 09 45 151 1140

- RJ Industrial® connector Multi-Featured angled 90°
  - 4 IDC contacts, can be assembled in the field without tools
  - Conductors AWG 26-22, solid/stranded
  - Transmission rate: 10/100 Mbit/s
  - Integrated blades cut the wire cones to the correct length
  - 4 possible directions
  - CAT 6
  - 09 45 151 1141

- RJ Industrial® connector Multi-Featured angled 35°
  - 4 IDC contacts, can be assembled in the field without tools
  - Conductors AWG 26-22, solid/stranded
  - Transmission rate: 10/100 Mbit/s
  - Integrated blades cut the wire cones to the correct length
  - 4 possible directions
  - CAT 6
  - 09 45 151 1142

- RJ Industrial® connector Multi-Featured
  - 8 IDC contacts, can be assembled in the field without tools
  - Conductors AWG 26-22, solid/stranded
  - Transmission rate: 10/100 Mbit/s and 1/10 Gbit/s
  - Integrated blades cut the wire cones to the correct length
  - CAT 6
  - 09 45 151 1570

- RJ Industrial® connector Multi-Featured angled 90°
  - 8 IDC contacts, can be assembled in the field without tools
  - Conductors AWG 26-22, solid/stranded
  - Transmission rate: 10/100 Mbit/s and 1/10 Gbit/s
  - Integrated blades cut the wire cones to the correct length
  - 4 possible directions
  - CAT 6
  - 09 45 151 1571

- RJ Industrial® connector Multi-Featured angled 35°
  - 8 IDC contacts, can be assembled in the field without tools
  - Conductors AWG 26-22, solid/stranded
  - Transmission rate: 10/100 Mbit/s and 1/10 Gbit/s
  - Integrated blades cut the wire cones to the correct length
  - 4 possible directions
  - CAT 6
  - 09 45 151 1572

RJ Industrial® RJ45 Multifeature connectors - Characteristics and advantages

RJ 45 for industrial (IP20) environments: Our new RJ Industrial® Multifeature is absolutely robust and reliable with integrated cutting tools for quick, easy and tool-less assembly. This can save you up to 25 % time when installing the Ethernet infrastructure.

preLink® Ethernet cabling system

- Connection of preLink® cables
  - Cable 4 or 8 wires AWG 22-24 Yellow 20 82 000 0001
  - Cable 4 or 8 wires AWG 26-27 White 20 82 000 0003

- RJ45 preLink® connector
  - RJ45 preLink® connector
  - 90° angled (with 4 directions) 20 82 101 0020
  - 35° angled (with 4 directions) 20 82 101 0022

- RJ45 preLink® angle in Keystone format
  - CAT 6
  - Straight version 20 82 500 0001
  - Angled 90° version 20 82 500 0002

- RJ45 preLink® jack in HIFF format
  - CAT 6
  - 20 82 000 0002

- RJ45 preLink® extender
  - 20 82 101 0001

- RJ Industrial® waterproof coupler housing
  - Polyamide (PA)
  - IP65/IP67
  - 09 45 805 0000

- preLink® tool
  - Simultaneously cuts and connects all IDC contacts
  - Ratchet mechanism
  - 20 82 000 9901

- preLink® system cables
  - PUR cable - S/FTP
  - Connector 1
  - Connector 2
  - preLink®
  - preLink® Yellow 20 82 600 2xxx
  - DualBoot® RJ45
  - preLink® Yellow 20 82 601 1xxx

preLink® - Characteristics and advantages

preLink® is a cabling strategy that provides flexibility, reliability and ease of use for Ethernet networks. The termination system creates a detachable connection between the cable and connector.
### M12 Circular Connectors

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Description</th>
<th>Contacts</th>
<th>Shielding</th>
<th>Conductor AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12 slim design, D-coded, male</td>
<td>4 contacts (IDC)</td>
<td>Shielded 360°</td>
<td>AWG 26</td>
<td>21 03 382 1410</td>
</tr>
<tr>
<td>M12 connector male D-coded</td>
<td>4 contacts (IDC)</td>
<td>Shielded 360°</td>
<td>Conductor AWG 26-22</td>
<td>21 03 281 1405</td>
</tr>
<tr>
<td>M12 PushPull connector male D-coded</td>
<td>4 contacts (IDC)</td>
<td>Shielded 360°</td>
<td>Conductor AWG 26-22</td>
<td>21 03 382 1411</td>
</tr>
<tr>
<td>M12 connector male D-coded</td>
<td>4 contacts (IDC)</td>
<td>Shielded 360°</td>
<td>Conductor AWG 26-22</td>
<td>21 03 281 1405</td>
</tr>
<tr>
<td>M12 slim design D-coded, female</td>
<td>4 contacts (IDC)</td>
<td>Shielded 360°</td>
<td>AWG 26</td>
<td>21 03 382 2410</td>
</tr>
<tr>
<td>M12 connector female, D-coded</td>
<td>4 contacts (IDC)</td>
<td>Shielded 360°</td>
<td>Conductor AWG 26-22</td>
<td>21 03 281 2405</td>
</tr>
<tr>
<td>M12 connector female D-coded</td>
<td>PFT (panel feed-through)</td>
<td>4 contacts (IDC)</td>
<td>Shielded 360°</td>
<td>Conductor AWG 26-22</td>
</tr>
<tr>
<td>M12 PushPull, D-coded</td>
<td>PFT (panel feed-through)</td>
<td>4 contacts (IDC)</td>
<td>Shielded 360°</td>
<td>Conductor AWG 26-22</td>
</tr>
</tbody>
</table>

### M8 Circular Connectors

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Description</th>
<th>Contacts</th>
<th>Shielding</th>
<th>Conductor AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>M8 connector D-coded</td>
<td>4 contacts (IDC)</td>
<td>Shielded</td>
<td>Conductor AWG 22</td>
<td>Male 21 02 185 1405</td>
</tr>
<tr>
<td>M8 PushPull connector male D-coded</td>
<td>4 contacts (IDC)</td>
<td>Shielded</td>
<td>Conductor AWG 22</td>
<td>Female 21 02 185 2405</td>
</tr>
<tr>
<td>M8 connector P-coded</td>
<td>4 contacts (IDC)</td>
<td>Shielded</td>
<td>Conductor AWG 22</td>
<td>Male 21 02 145 1405</td>
</tr>
<tr>
<td>M8 PushPull connector male P-coded</td>
<td>4 contacts (IDC)</td>
<td>Shielded</td>
<td>Conductor AWG 22</td>
<td>Female 21 02 145 2405</td>
</tr>
</tbody>
</table>

### M8 Connector - Characteristics and Advantages

The M8 connector is 30% more compact than the M12, which is significant for small sensors or actuators. Like the M12, the M8 PushPull version does not need to be connected using the screw thread saving time.

- **D-coded**
  - Cat. 5 (10/100 Mbit/s – 100 MHz)
- **P-coded**
  - Cat. 5 (10/100 Mbit/s – 100 MHz)
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