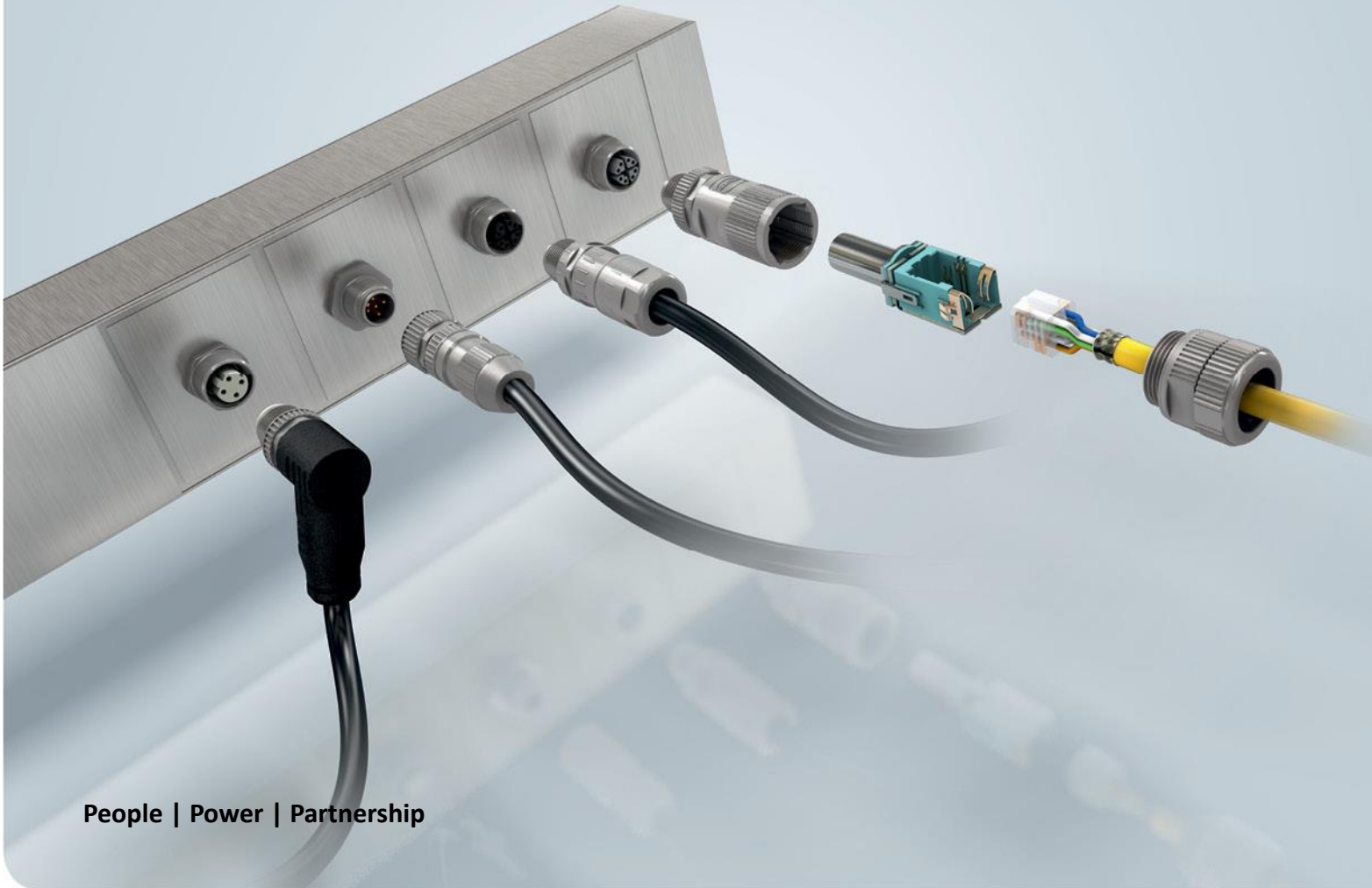




Pushing Performance



People | Power | Partnership

M8 / M12 / 7/8" Circular Connectors Complete Selection Guide



HARTING's selection guide on M8, M12, and 7/8" products is a user-friendly way to find a solution that is compatible with any situation or application that a customer may need. It also features the most up-to-date variations of HARTING's circular connectors including PushPull, Ha-VIS preLink®, and more.

Unlike a catalog, this guide incorporates links to other product or information pages that can be helpful when choosing parts for a solution. There is also a Table of Contents button on every page for convenience.

- Not sure about a specific termination type on a connector?
- Looking for the technical characteristics of a product?
- Want a picture of the product?

Simply click on the blue title or part number and it will bring up the information that is needed.



Introduction and Information

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Other

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- [M12 Ethernet Switches](#)





HARTING's extensive collection on M8 and M12 connectors fulfills today's industrial needs for connected communication and machinery devices. The product reliability that HARTING offers can make a difference when choosing connectors vs. hard-wiring, as HARTING can be the better choice in the long run.

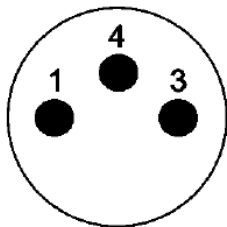
The selection ranges from the standard M12 A-Code connectors to M8 D-Code connectors, which are great for Ethernet applications in a more compact setting.

Coding Options

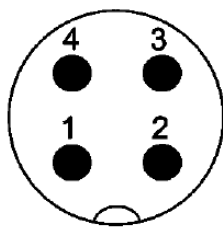


There is a wide variety on the kinds of M8 and M12 connectors that exist, and coding helps users see the differences between the connectors - but it is mainly used to prevent incorrect mating. Below are the codings that HARTING offers as well as the mating faces that are paired with each code.

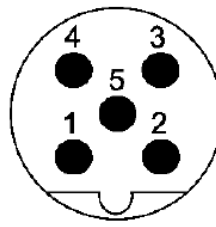
- A-Code: Primarily used as connections for sensors and actuators
- B-Code: Connections for Profibus and Interbus
- D-Code: Used for 100 MB Ethernet/IP Connections
- X-Code: For high-speed 10 Gigabit Ethernet Connections
- L-Code: Connections for power solutions, comes at 63 V / 16A
- 7/8": Used for power connections



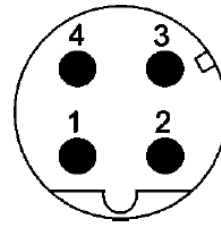
M8 A-Code



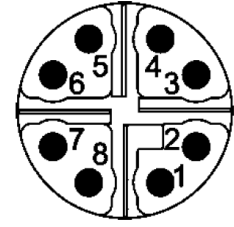
M12 A-Code



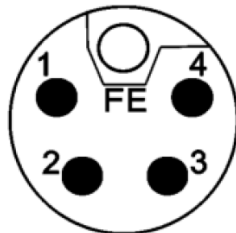
M12 B-Code



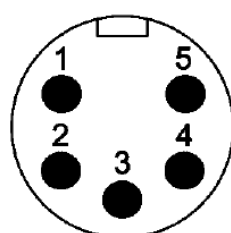
M12 D-Code



M12 X-Code



M12 L-Code



7/8"



Incomplete Part Numbers



In most cases, there will be incomplete part numbers for the cable assemblies in this selection guide. HARTING offers various standard lengths that are already assembled, and custom assembly lengths can be ordered as well.

For example, the “xxx” in the incomplete part number 21348300388xxx can be filled in with whichever length extension that is desired, as shown through the standard length table below.

The links that follow each product’s part number will be set to various lengths of the assembly.

**Standard Lengths for All Cable Assemblies are 0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 2.0m = "020", 5.0m = "050", 7.5m = "075", 10m = "100")



Wire Termination Types



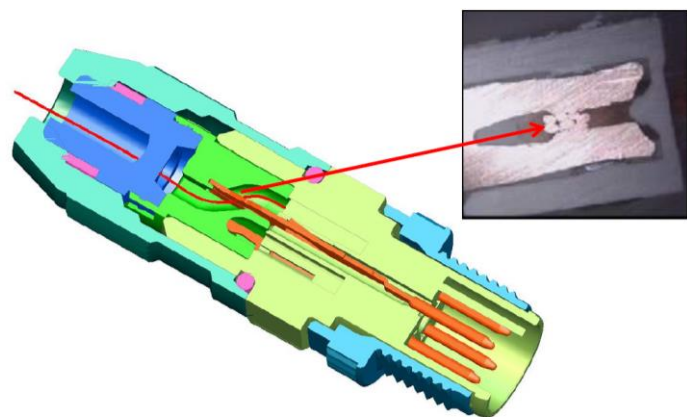
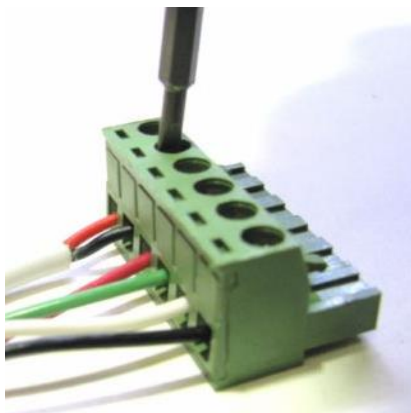
So how exactly are wires connected to the connector? HARTING has three different kinds of technologies that ensure a secure connection between the wire and connector.

- HARAX® / IDC
 - HARTING's own version of insulation-displacement contact, HARAX®, combines IDC with a wire guide element for conveniently producing on-site field installing without special tools
 - Produces a gas-proof and vibration resistant connection
 - Follow this [link](#) for a quick video tutorial on HARAX®
- Screw
 - There are different designs for how a wire is held under the screw, including using a set screw or a ferrule
- Crimp
 - A conductor is inserted to a crimp contact and is retained by controlled deformation
 - Provides gas-proof, shock, and vibration resistance
 - Follow this [link](#) for a video tutorial on crimp termination



The HARTING Crimp Termination

Screw Termination



The HARTING HARAX® / IDC Termination

Push Pull

- Ensures rapid, vibration-free Ethernet connections with just one click
- Ideal for installation in tight spaces, such as railway applications
- Click [here](#) to learn more about HARTING PushPull



The HARTING PushPull Technology

Ha-VIS preLink®

- A technology from HARTING on Ethernet cabling
- Combines the benefits of data networking technology with industry requirements
- Installation: preLink® separates cable connection and mating face, while an assembly tool is required to press the cable and termination block together
- Click [here](#) to learn more about HARTING preLink®



The HARTING Ha-VIS preLink®
IDC Termination Block



The HARTING Ha-VIS preLink® Connector

M8 A-Code Connectors



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CONTENTS**

M8 A-Code Connectors



M8-S HARAX®
Female 3-pole



M8 Screw Male 4-pole
Straight Unshielded



M8 Panel Feed Through
Female 3-pole

| <u>HARAX® / IDC Termination</u> | HARTING Part Number | |
|--|-----------------------------|-----------------------------|
| | Male | Female |
| Description | | |
| 3pin straight, unshielded, AWG 26-22 (0.14-0.34mm ²), for cable 2.5-5.1mm (S) | 21021511305 | 21021512305 |
| 3pin straight, unshielded, AWG 27-26 (0.08-0.14mm ²), for cable 1.9-3.5mm (XS) | 21021591305 | |
| 4pin straight, unshielded, AWG 26-22 (0.14-0.34mm ²), for cable 2.5-5.1mm (S) | 21021511405 | 21021512405 |
| <u>Screw Termination</u> | | |
| 3pin straight, unshielded, max AWG 20, for cable 4-5.5mm | 21023591301 | 21023592301 |
| 3pin angled, unshielded, max AWG 20, for cable 4-5.5mm | 21023593301 | 21023594301 |
| 3pin straight, shielded, max AWG 20, for cable 4-5.5mm | 21023691301 | 21023692301 |
| 4pin straight, unshielded, max AWG 20, for cable 4-5.5mm | 21023591401 | 21023592401 |
| 4pin angled, unshielded, max AWG 20, for cable 4-5.5mm | 21023593401 | 21023594401 |
| 4pin straight, shielded, max AWG 20, for cable 4-5.5mm | 21023691401 | 21023692401 |
| Panel Feed Through (PFT) * | | |
| 3pin Panel Receptacle to flying leads, 0.5m | | 21023576305 |
| 4pin Panel Receptacle to flying leads, 0.5m | | 21023576405 |

*These PFTs do not come with a lock nut – if needed, please use [21010000048](#)

M8 A-Code Cable Assemblies



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CONTENTS**

M8 A-Code 3pin Assemblies



M8 3-pole Straight Male
Cable Assembly PVC Gray



M8 3-pole Straight Male
to Female PVC Gray

**Standard Lengths for Cable Assemblies are 0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 2.0m = "020", 5.0m = "050",
7.5m = "075", 10m = "100", etc.)

| 3pin Overmolded Single Ended Assemblies | | HARTING Part Number | |
|---|--------------------------------|--------------------------------|--|
| Description | PVC Gray | PUR Black | |
| 3pin, straight, male, xx.xm | 21348000380xxx | 21348000388xxx** | |
| 3pin, straight, female, xx.xm | 21348100380xxx | 21348100388xxx | |
| 3pin, angled, male, xx.xm | 21348200380xxx** | | |
| 3pin, angled, female, xx.xm | 21348300380xxx | 21348300388xxx | |
| 3pin Overmolded Double Ended Assemblies | | | |
| 3pin, straight male to straight female, xx.xm | 21348081380xxx | 21348081388xxx | |
| 3pin, straight male to angled female, xx.xm | 21348083380xxx | 21348083388xxx | |
| 3pin, angled male to angled female, xx.xm | 21348283481xxx** | | |

**Check on available lengths

M8 A-Code 4pin Assemblies



M8 4-pole Angled Female Cable Assembly PUR Gray



M8 4-pole Straight Male to Female PUR Black

Standard Lengths for Cable Assemblies are 0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0 meters (Other lengths available upon request)

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 2.0m = "020", 5.0m = "050", 7.5m = "075", 10m = "100", etc.)

| 4pin Overmolded Single Ended Assemblies | | HARTING Part Number | |
|--|--------------------------------|-----------------------------------|--|
| Description | PVC Gray | PUR Black | |
| 4pin, straight, male, xx.xm | 21348000481xxx | | |
| 4pin, straight, female, xx.xm | 21348100481xxx | 21348100489xxx | |
| 4pin, angled, female, xx.xm | 21348300481xxx | 21348300489xxx | |
| 4pin Overmolded Double Ended Assemblies | | | |
| 4pin, straight male to straight female, xx.xm | 21348081481xxx | 21348081489xxx | |
| 4pin, straight male to angled female, xx.xm | 21348083481xxx** | 21348083489xxx ** | |
| 4pin, straight male to straight male, xx.xm | | 21348080489xxx** | |
| 4pin, straight female to M12 A-code straight male, xx.xm** | | 21348184489xxx ** | |

**Check on available lengths



M8 D-Code Connectors



M8 PCB Female 4-pole Straight,
Shielded, 4mm height



M8 PCB mount Female
4-pole Straight, Shielded

| PCB Mount Connectors using THT (Through-Hole Technology) Termination | HARTING Part Number |
|--|----------------------------|
| Description | Female |
| 4pin straight PCB mount, shielded version, IP67, (4mm height) | 2142000005 |
| 4pin straight PCB mount, shielded version, IP67, (8mm height) | 2142000014 |
| 4pin straight PCB mount (w/o housing), shielded version, IP67 | 2142000006 |
| M8 Housing, front mounting, M10x1, 9mm height | 2141000016 |
| M8 Housing, front mounting, M10x1, 13mm height | 2141000017 |

Click [here](#) to learn more about M8 D-Code Connectors

M8 D-Code Cable Assemblies



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CONTENTS**

M8 D-Code Assemblies



M8 4-pole Straight Male Single Ended Cable Assembly PVC

Standard Lengths for Cable Assemblies are 0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0 meters (Other lengths available upon request)

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 2.0m = "020", 5.0m = "050", 7.5m = "075", 10m = "100", etc.)

| 4pin Overmolded Single Ended Shielded Assemblies | HARTING Part Number |
|---|--------------------------------|
| 4pin straight male, PVC, xx.xm | 2134C700405xxx |
| 4pin straight male, PUR, xx.xm | 2134C700477xxx |
| 4pin Overmolded Double Ended Shielded Assemblies | |
| 4pin straight male to straight male, PVC, xx.xm | 2134C7C7405xxx |
| 4pin straight male to straight male, PUR, xx.xm | 2134C7C7477xxx |

Click [here](#) to learn more about M8 D-Code Connectors

M12 A-Code Connectors



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M12 A-Code IDC Connectors



M12 HARAX®
Female 4-pole Angled



M12 HARAX®
Male 4-pole



M12 HARAX® Male
8-pole shielded

| Description | HARTING Part Number | |
|--|-----------------------------|-----------------------------|
| | Male | Female |
| 3pin, unshielded, AWG22-18, for cable 6-8mm (pins 1,3,4) | 21032121306 | 21032122306 |
| 3pin, unshielded, AWG22-18, for cable 6-8mm (pins 3,4,5) | 21032121400 | 21032122400 |
| 3pin, unshielded, AWG26-22, for cable 2.9-5.1mm (pins 1,3,4) | 21031111305 | 21031112305 |
| 4pin, unshielded, AWG26-22, for cable 2.9-5.1mm (S) | 21031111405 | 21031112405 |
| 4pin, unshielded, AWG22-18, for cable 6-8mm (L) | 21032121305 | 21032122305 |
| 4pin, unshielded, AWG22-18, for cable 7-8.8mm (L) | 21032121407 | 21032122407 |
| 4pin, unshielded, angled, AWG24/7-20, cable 4-5.1mm | 21011405081 | 21011405091 |
| 4pin, shielded, AWG26-22, for cable 4.5-8.8mm (L) | 21032211405 | 21032212405 |
| 4pin, shielded, slim design, AWG 22, for cable 5.7-8.8mm | 21033221400 | 21033222400 |
| 5pin, unshielded, AWG22-20, for cable 6-8mm (L) | 21032721505 | 21032722505 |
| 8pin, shielded, AWG 26-22, for cable 4-8mm | 21031211801 | 21031212801 |

Click [here](#) for PushPull options

M12 A-Code Screw and Crimp Connectors



M12 Crimp Male 8-pole
Straight Slim Design Shielded



M12 Screw Male
4-pole Angled



M12 Screw Female 4-
pole Straight Shielded

| Screw Termination | HARTING Part Number | |
|--|-----------------------------|-----------------------------|
| | Male | Female |
| Description | | |
| 4pin, unshielded, straight, max. AWG16, for cable 4-8mm | 21033191401 | 21033192401 |
| 4pin, unshielded, angled, max. AWG16, for cable 4-8mm | 21033193401 | 21033194401 |
| 4pin, shielded, straight, max. AWG16, for cable 4-8mm | 21033291401 | 21033292401 |
| 5pin, unshielded, angled, max. AWG16, for cable 4-8mm | 21033193501 | 21033194501 |
| 5pin, unshielded, straight, max. AWG16, for cable 4-8mm | 21033191501 | 21033192501 |
| 5pin, shielded, straight, max. AWG16, for cable 4-8mm | 21033291501 | 21033292501 |
| 8pin, unshielded, straight, max. AWG20, for cable 4-8mm | 21033191801 | 21033192801 |
| 8pin, unshielded, angled, max. AWG20, for cable 4-8mm | 21033193801 | 21033194801 |
| 8pin, shielded, straight, max. AWG20, for cable 4-8mm | 21033291801 | 21033292801 |
| Crimp Termination | | |
| 4/5pin, shielded, slim design, straight, for cable 5.7-8.8mm | 21038211505 | 21038212505 |
| 4/5pin, shielded, slim design, angled, for cable 5.7-8.8mm | 21038213505 | 21038214505 |
| 8pin, shielded, slim design, straight, for cable 5.7-8.8mm | 21038211805 | 21038212805 |
| 8pin, shielded, slim design, angled, for cable 5.7-8.8mm | 21038213805 | 21038214805 |

Click [here](#) for PushPull options

M12 A-Code Connectors – Panel Feed Through



M12 HARAX® Male 4-pole Shielded



M12 Crimp Female 8-pole Shielded

| HARAX® / IDC Termination | HARTING Part Number | |
|---|-----------------------------|-----------------------------|
| Description | Male | Female |
| 4pin male, shielded, PFT, AWG26-22, for cable 4.5-8.8mm | 21033211425 | 21033212425 |
| Crimp Termination | | |
| 4/5pin female shielded, PFT, slim design, for cable 5.7-8.8mm** | 21038212525 | |
| 8pin female shielded, PFT, slim design, straight, for cable 5.7-8.8mm** | 21038212825 | |

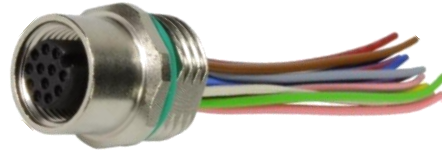
**Compatible with PushPull

Click [here](#) for Crimp Contacts and Tooling

M12 A-Code Connectors – Panel Feed Through



M12 Assembly to Flying Leads Female 3-pole



M12 Assembly to Flying Leads Female 12-pole

| Assembly to Flying Leads (without lock nut) If lock nut is needed, please use 2101000018 | HARTING Part Number | |
|---|-----------------------------|-----------------------------|
| 3pin female PFT to 0.5m AWG24 flying leads, PVC (pins 1,3,4) | 21033176305 | |
| 4pin female PFT to 0.5m AWG24 flying leads, PVC | 21033176405 | |
| 5pin female PFT to 0.5m AWG24 flying leads, PVC | 21033176505 | |
| 8pin female PFT to 0.5m AWG24 flying leads, PVC | 21033176805 | |
| 12pin female PFT to 0.5m AWG26 flying leads, PVC | 21033532C00 | |
| Assembly to Flying Leads (with lock nut) | Male | Female |
| 4pin PFT to 0.5m AWG20 flying leads | 21033111402 | 21033112400 |
| 5pin PFT to 0.5m AWG20 flying leads | 21033111501 | 21033112501 |

M12 A-Code Connectors – PCB Mounts



M12 PCB Mount Male
4-pole Straight IP20



M12 PCB Mount Female
4-pole Angled Shielded

| IP67 Versions | HARTING Part Number | |
|--|-----------------------------|-----------------------------|
| | Male | Female |
| Description | | |
| 4pin straight panel feed through PCB mount, IP67 | 21033211420 | 21033216420 |
| 5pin straight panel feed through PCB mount, IP67 | 21033211520 | 21033216520 |
| 8pin angled PCB mount, shielded, front mounting, IP67 | | 21033214801 |
| 12pin angled PCB mount, shielded, front mounting, IP67 | | 21033214201 |
| IP67 THR (Through-Hole Reflow) | | |
| 4pin angled PCB mount, shielded, THR, IP67 | 21033213401 | 21033214401 |
| 5pin angled PCB mount, shielded, THR, IP67 | 21033213501 | 21033214501 |
| IP20 Versions | | |
| 4pin straight panel feed through PCB mount, IP20 | 21033211410 | 21033216410 |
| 5pin straight panel feed through PCB mount, IP20 | 21033211510 | 21033216510 |

M12 A-Code Connectors – PCB Mounts



M12 PCB Mount Male 5-pole Screened Version



M12 PCB Mount SMT Male 4-pole Straight



M12 PCB Mount Male 8-pole Screened Version + Rear Mount Housing

| Through-Hole PCB Mounts | HARTING Part Number | |
|--|-----------------------------|-----------------------------|
| Description | Male | Female |
| 4pin straight PCB mount (w/o housing), screened version** | 21033211418 | |
| 5pin straight PCB mount (w/o housing), screened version** | 21033211518 | 21033212518 |
| 5pin straight PCB mount, screened version + rear mount housing | 21033211530 | 21033212530 |
| 8pin straight PCB mount (w/o housing), screened version** | 21033211818 | 21033212818 |
| 8pin straight PCB mount, screened version + rear mount housing | 21033211830 | 21033212830 |
| SMT (Surface Mount Technology) – without housing | | |
| 4pin straight, SMT PCB mount, unshielded | 21033111415 | 21033112410 |
| 4pin straight, SMT PCB mount, unshielded, reel of 75pieces | 21033111416 | 21033112411 |
| 5pin straight, SMT PCB mount, unshielded | 21033111515 | 21033112510 |
| 5pin straight, SMT PCB mount, unshielded, reel of 75pieces | 21033111516 | 21033112511 |
| 8pin straight, SMT PCB mount, unshielded | 21033111815 | 21033112810 |
| 8pin straight, SMT PCB mount, unshielded, reel of 75pieces | 21033111816 | 21033112811 |
| 8pin straight, SMT PCB mount, shielded | 21033211802 | 21033212803 |
| 8pin straight, SMT PCB mount, shielded, reel of 75pieces | 21033211803 | 21033212802 |

**Compatible with PushPull

Click [here](#) for Housing and SMT Housing options

M12 A-Code Connectors – Other



M12 Male moving load
4-pole Connector



M12 5-pole
T-Coupler Profibus

| Other | HARTING Part Number |
|--|-----------------------------|
| M12 A-Code male moving load 4pin connector | 21030301400 |
| M12 A-code 5pin T-Coupler Profibus | 21033219400 |

M12 A-Code Cable Assemblies



M12 A-Code 3pin Assemblies



M12 3-pole Single Ended
Overmolded Angled PUR Black



M12 3-pole Double Ended
Overmolded Straight

**Standard Lengths for Cable Assemblies are 0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 2.0m = "020", 5.0m = "050",
7.5m = "075", 10m = "100", etc.)

| 3pin Overmolded Single Ended Assemblies | | HARTING Part Number | |
|---|--|--------------------------------|--------------------------------|
| Description | | PVC Gray | PUR Black |
| 3pin, straight, male, xx.xm | | 21348400383xxx | 21348400390xxx** |
| 3pin, straight, female, xx.xm | | 21348500383xxx | 21348500390xxx |
| 3pin, angled, female, xx.xm | | 21348700383xxx | 21348700390xxx |
| 3pin Overmolded Double Ended Assemblies | | | |
| 3pin, straight male to straight female, xx.xm | | 21348485383xxx | 21348485390xxx |

**Check on available lengths

M12 A-Code 4pin Assemblies



M12 4-pole Double Ended
Overmolded Straight to Straight



M12 4-pole Double Ended
Overmolded Straight to Angled

**Standard Lengths for Cable Assemblies are 0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 2.0m = "020", 5.0m = "050",
7.5m = "075", 10m = "100", etc.)

| 4pin Overmolded Single Ended Assemblies | HARTING Part Number | |
|---|--------------------------------|--------------------------------|
| Description | PVC Gray | PUR Black |
| 4pin, straight, male, xx.xm | 21348400484xxx | 21348400491xxx** |
| 4pin, straight, female, xx.xm | 21348500484xxx** | 21348500491xxx** |
| 4pin, angled, male, xx.xm | 21348600484xxx | 21348600491xxx |
| 4pin, angled, female, xx.xm | 21348700484xxx | 21348700491xxx |
| 4pin Overmolded Double Ended Assemblies | | |
| 4pin, straight male to straight female, xx.xm | 21348485484xxx | 21348485491xxx |
| 4pin, straight male to angled female, xx.xm | 21348487484xxx | 21348487491xxx |
| 4pin, straight male to straight male, xx.xm | | 21348484484xxx** |

**Check on available lengths

See the Sensor Actuator Boxes [page](#) for more M12 A-Code 4pin assemblies

M12 A-Code 5pin Assemblies



M12 5-pole Single Ended Female
Angled PVC Gray



M12 5-pole Single Ended Male
Straight PVC Gray

**Standard Lengths for Cable Assemblies are 0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 2.0m = "020", 5.0m = "050",
7.5m = "075", 10m = "100", etc.)

| 5pin Overmolded Single Ended Assemblies | | HARTING Part Number | |
|---|--------------------------------|---------------------|--|
| Description | PVC Gray | PUR Black | |
| 5pin, straight, male, xx.xm | 21348400585xxx | 21348400592xxx** | |
| 5pin, straight, female, xx.xm | 21348500585xxx | 21348500592xxx** | |
| 5pin, angled, female, xx.xm | 21348700585xxx | 21348700592xxx** | |
| 5pin Overmolded Double Ended Assemblies | | | |
| 5pin, straight male to straight female, xx.xm | 21348485585xxx | 21348485592xxx** | |

**Check on available lengths

M12 A-Code 8pin Assemblies



M12 8-pole Single Ended
Overmolded Straight



M12 8-pole Double Ended
Overmolded Straight

**Standard Lengths for Cable Assemblies are 0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 2.0m = "020", 5.0m = "050",
7.5m = "075", 10m = "100", etc.)

| 8pin Overmolded Single Ended Assemblies | | HARTING Part Number | |
|---|--------------------------------|---------------------|--|
| Description | PVC Gray | PUR Black | |
| 8pin, straight, male, xx.xm | 21348400882xxx | 21348400870xxx** | |
| 8pin, straight, female, xx.xm | 21348500882xxx | | |
| 8pin, angled, female, xx.xm | 21348700882xxx** | | |
| 8pin Overmolded Double Ended Assemblies | | | |
| 8pin, straight male to straight female, xx.xm | 21348485882xxx | 21348485870xxx | |
| 8pin, straight male to straight male, xx.xm | 21348484882xxx | 21348484870xxx** | |

M12 A-Code 12pin Assemblies



M12 12-pole Double Ended Overmolded
Angled Male to Angled Female



M12 12-pole Single Ended
Overmolded Straight PVC Gray

**Standard Lengths for Cable Assemblies are 0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 2.0m = "020", 5.0m = "050",
7.5m = "075", 10m = "100", etc.)

| 12pin Overmolded Single Ended Assemblies | HARTING Part Number | |
|--|--------------------------------|--------------------------------|
| Description | PVC Gray | PUR Black |
| 12pin, straight, male, xx.xm | 21348400C79xxx | |
| 12pin, straight, female, xx.xm | 21348500C79xxx | 21348500C78xxx |
| 12pin, angled, male, xx.xm | 21348600C79xxx | |
| 12pin, angled, female, xx.xm | 21348700C79xxx | 21348700C78xxx |
| 12pin Overmolded Double Ended Assemblies | | |
| 12pin, straight male to straight female, xx.xm | 21348485C79xxx | 21348485C78xxx |
| 12pin, straight male to angled female, xx.xm | | 21348487C78xxx |
| 12pin, angled male to angled female, xx.xm | 21348687C78xxx | |

**Lengths for EtherRail® Cable Assemblies are
0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0, 15.0, 20.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 5.0m = "050", 10m = "100",
15m = "150", 20m = "200", etc.)

| 4pin Overmolded Single Ended | HARTING Part Number |
|---|----------------------------|
| 4pin, straight female, Nexans Flamex MAZ PUR (4x0.5mm ²), xx.xm | 210351224yy |
| 5pin, Press and Go, straight male, Tronic-CY (LiY-CY) PVC (4xAWG20), xx.xm | 21331000502xxx |
| 4pin Double Ended | |
| Slim Design, 4pin, straight male to straight male, EtherRail Flex (4xAWG22/7), xx.xm | 21330202401xxx |

M12 B-Code Connectors



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CONTENTS**

M12 B-Code Connectors



M12 HARAX®
2-pole Male Shielded



M12 Screw 5-pole
Male Shielded



M12 Crimp
5-pole Female Shielded

| HARAX® / IDC Termination | HARTING Part Number | |
|---|-----------------------------|-----------------------------|
| Description | Male | Female |
| 2pin, shielded, AWG 24-22, for cable 5-8.8mm (L) | 21032411301 | 21032412301 |
| Screw Termination | | |
| 5pin, straight, shielded, max. AWG16, for cable 4-8mm | 21033491501 | 21033492501 |
| Crimp Termination | | |
| 5pin, shielded | 21038411505 | 21038412505 |

Click [here](#) for Crimp Contacts and Tooling

M12 B-Code Connectors – Panel Feed Through



M12 PFT
Flying Leads 5-pole Male



M12 HARAX®
2-pole Male Shielded



M12 PFT
5-pole Male / Female

| HARAX® / IDC Termination | HARTING Part Number | |
|--|-----------------------------|-----------------------------|
| Description | Male | Female |
| 2pin, shielded, AWG 24-22, for cable 7-8.8mm | 21033411425 | 21033412425 |
| Crimp Termination | | |
| 5pin, shielded, crimp | 21038411525 | 21038412525 |
| Flying Leads | | |
| 4pin, PFT, to 0.5m AWG24 flying leads, PVC* | | 21033386405 |
| 5pin, PFT to 0.25m AWG20 flying leads* | 21033391301 | 21033392301 |
| Male to Female | | |
| 5pin male/female PFT | 21033301300 | |

*This PFT does not come with a lock nut – if needed, please use [21010000018](#)

Click [here](#) for Crimp Contacts and Tooling

M12 B-Code Connectors – PCB Mounts and Other



M12 Male moving load
4-pole Connector



M12 Male 5-pole Straight
PFT PCB mount IP67

| IP67 Degree of Protection | HARTING Part Number | |
|--|-----------------------------|-----------------------------|
| Description | Male | Female |
| 5pin straight panel feed through PCB mount, IP67 | 21033411505 | 21033412505 |
| Screened Version | | |
| 5pin, straight PCB mount (w/o housing), screened version** | 21033411518 | 21033412518 |
| Other | | |
| Male moving load 4pin connector | 21030301300 | |
| 5pin T-Coupler Profibus | 21033416401 | |

**Need housing? Click [here](#) to see housing options

M12 B-Code Cable Assemblies



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CONTENTS**

M12 B-Code Standard Assemblies



M12 2-pole Male Single Ended Straight



M12 2-pole Male Single Ended Angled

Standard Lengths for Cable Assemblies are 0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0 meters (Other lengths available upon request)

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 2.0m = "020", 5.0m = "050", 7.5m = "075", 10m = "100", etc.)

| 2pin Overmolded Single Ended Assemblies | | HARTING Part Number | |
|---|--------------------------------|--------------------------------|--|
| Description | PVC Violet | PUR Violet | |
| 2pin, straight, male, xx.xm | 21348800486xxx | | |
| 2pin, angled, male, xx.xm | 21349000486xxx | | |
| 2pin, straight, female, xx.xm | 21348900486xxx | 21348900487xxx | |
| 2pin, angled, female, xx.xm | 21349100486xxx | 21349100487xxx | |
| 2pin Overmolded Double Ended Assemblies | | | |
| 2pin, straight male to straight female, xx.xm | 21348889486xxx | 21348889487xxx | |
| 2pin, angled male to angled female, xx.xm | | 21349091487xxx | |

M12 D-Code Connectors



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CONTENTS**

M12 D-Code Connectors



M12 Screw Male 4-pole
straight shielded



M12 Crimp Male 4-pin
Slim Design Straight



M12 HARAX® Female
4-pole straight shielded

| Description | HARTING Part Number | |
|--|-----------------------------|-----------------------------|
| | Male | Female |
| <u>HARAX® / IDC Termination</u> | | |
| 4pin, shielded, slim design, AWG 22, for cable 5.7-8.8mm | 21033821400 | 21033822400 |
| 4pin, shielded, M12-L, AWG 26-22, for cable 4.5-8.8mm (L) | 21032811405 | 21032812405 |
| 4pin, shielded, M12-L, AWG 22-18, for cable 4.5-8.8mm (L) | 21032821405 | 21032822405 |
| <u>Screw Termination</u> | | |
| 4pin straight, shielded, max. AWG16, for cable 4-8mm | 21033891402 | 21033892402 |
| <u>Crimp Termination</u> | | |
| 4pin, shielded, slim design, straight, for cable 5.7-8.8mm | 21038811405 | 21038812405 |
| 4pin, shielded, slim design, angled, for cable 5.7-8.8mm | 21038813405 | 21038814405 |
| 4pin male shielded, crimp, for conduit M17 | 21038821411 | 21038822411 |

Click [here](#) for PushPull options

Click [here](#) for preLink® options

Click [here](#) for Crimp Contacts and Tooling

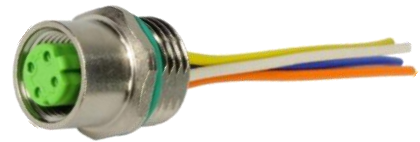
M12 D-Code Connectors – Panel Feed Through



M12 Crimp Female 4-pole
Shielded Slim Design



M12 HARAX® Male 4-
pole Shielded



M12 Flying Leads
Female 4-pole

| HARAX® / IDC Termination | HARTING Part Number | |
|--|-----------------------------|-----------------------------|
| Description | Male | Female |
| 4pin, shielded, AWG 26-22 | 21033811425 | 21033812425 |
| Crimp Termination | | |
| 4pin shielded, slim design, straight, for cable 5.5-8.8mm ** | | 21038812425 |
| Flying Leads | | |
| 4pin, panel feed through to 0.5m AWG22 flying leads, PVC* | | 21033752400 |
| 4pin panel feed through (M16) to 0.5m AWG22 flying leads (comes with Lock Nut) | 21033711403 | 21033712403 |

*This PFT does not come with a lock nut – if needed, please use [21010000018](#)

**Compatible with PushPull

Click [here](#) for Crimp Contacts and Tooling

M12 D-Code Connectors – Panel Feed Through



M12 4-pole to RJ45
Cable Assembly



M12 4-pole Gender
Changer



M12 4-pole Female
to RJ45 Straight

| Cables coming out of the back | HARTING Part Number |
|---|-----------------------------|
| 4pin female PFT (M16) to 360mm flex cable 2x2xAWG26/7 | 21033836407 |
| Single Ended Cable Assembly, female panel mount, EtherRail Flex (4xAWG22/7), 0.7m | 21332100401007 |
| 4pin female PFT (PG9) to 700mm flex cable 2x2xAWG26/7 | 21033836405 |
| Other | |
| 4pin female to RJ45 panel feed through angled, 4poles | 21033814401 |
| 4pin female to RJ45 panel feed through straight, 4poles | 21033812401 |
| 4pin gender changer female/female** | 21033816403 |
| M12 Wall Mount Bracket | 21010000036 |

**Compatible with PushPull

M12 D-Code Connectors – PCB Mounts



M12 4-pole Male
Straight PFT IP67



M12 4-pole Female Angled
w/o fixing hole IP67

| IP67 Degree of Protection | HARTING Part Number |
|---|-----------------------------|
| 4pin male, straight panel feed through (PFT) PCB mount | 21033711400 |
| 4pin female, straight panel feed through (PFT) PCB mount | 21033712415 |
| 4pin female, straight panel feed through (PFT) PCB mount | 21033816420 |
| 4pin female, angled PCB mount w/o fixing hole (exit right) | 21033814430 |
| 4pin female, angled PCB mount w/o fixing hole (exit down) | 21033814431 |
| 4pin female, angled PCB mount with fixing hole (exit right) | 21033814432 |
| 4pin female, angled PCB mount with fixing hole (exit down) | 21033814433 |
| 4pin female, angled PCB mount w/o fixing hole** | 21033814436 |
| 4pin female, angled PCB mount with fixing hole** | 21033814437 |

**Compatible with PushPull

M12 D-Code Connectors – PCB Mounts



M12 4-pole Female Angled
w/o fixing hole IP20



M12 4-pole Female
Straight PFT IP20

| IP20 Degree of Protection | HARTING Part Number |
|---|-----------------------------|
| 4pin female straight panel feed through (PFT) PCB mount | 21033816410 |
| 4pin female, angled PCB mount w/o fixing hole (exit right) | 21033814410 |
| 4pin female, angled PCB mount w/o fixing hole (exit down) | 21033814411 |
| 4pin female, angled PCB mount with fixing hole (exit right) | 21033814412 |
| 4pin female, angled PCB mount with fixing hole (exit down) | 21033814413 |
| 4pin female, angled PCB mount w/o fixing hole** | 21033814434 |
| 4pin female, angled PCB mount with fixing hole** | 21033814435 |

**Compatible with PushPull

M12 D-Code Connectors – PCB Mounts



M12 4-pole Male Straight
with rear mount housing



M12 4-pole Female Angled
THR rear-mounting

| Through-Hole Reflow Termination (THR) | HARTING Part Number |
|---|-----------------------------|
| 4pin female angled PCB mount, shielded, rear-mounting, THR termination | 21033814440 |
| PCB Mounts | |
| 4pin male straight PCB mount (w/o housing), shielded version | 21033811418 |
| 4pin female straight PCB mount (w/o housing), shielded version | 21033812418 |
| 4pin male straight PCB mount, shielded version, with rear mount housing (individual piece) | 21033811430 |
| 4pin male straight PCB mount, shielded version, with front mount housing (individual piece) | 21033811431 |
| 4pin female straight PCB mount, shielded version, with rear mount housing (individual piece) | 21033812430 |
| 4pin female straight PCB mount, shielded version, with front mount housing (individual piece) | 21033812431 |
| Other | |
| 4pin female straight, SMT (surface mount technology) PCB mount, shielded* | 21033812404 |
| 4pin female straight, SMT PCB mount, shielded, reel of 75pieces* | 21033812405 |

M12 D-Code Connectors – PCB Mounts



M12 4-pole Female Angled
SMT with transformer



M12 4-pole Female Straight SMT
with transformer, PoE enabled

| SMT PCB Mounts with transformers, shielded | HARTING Part Number |
|---|-----------------------------|
| 4pin female straight, (w/o housing) | 21033812410 |
| 4pin female straight, PoE (Power over Ethernet) enabled (w/o housing) | 21033812411 |
| 4pin female straight, PoE enabled, (w/ housing 21033012006) | 21033812421 |
| 4pin female angled, (w/o housing) | 21033814420 |
| 4pin female angled, PoE enabled, (w/o housing) | 21033814421 |
| 4pin female angled, PoE enabled, (w/ housing 21033012006) | 21033814422 |

*For housing, please use [21410000010](#) or [21410000013](#)

To learn more about M12 PCB Mounts with transformers, click [here](#)

M12 D-Code Cable Assemblies



M12 D-Code Standard Assemblies



M12 4-pole Single Ended
Overmolded Straight



M12 4-pole Single Ended
Overmolded Angled

**Standard Lengths for Cable Assemblies are 0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0 meters
(Other lengths available upon request)**

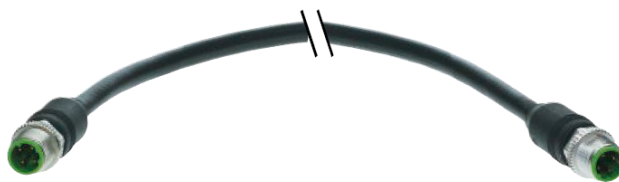
(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 2.0m = "020", 5.0m = "050",
7.5m = "075", 10m = "100", etc.)

| 4pin Overmolded Single Ended Assemblies | | HARTING Part Number | |
|--|--------------------------------|--------------------------------|--|
| Description | PVC Green | PUR Green | |
| 4pin, straight, male, xx.xm | 21349200405xxx | 21349200477xxx | |
| 4pin, straight, female, xx.xm | 21349300405xxx | 21349300477xxx | |
| 4pin, angled, male, xx.xm | 21349400405xxx | 21349400477xxx | |
| 4pin, angled, female, xx.xm | 21349500405xxx | 21349500477xxx | |
| 4pin Overmolded Double Ended Assemblies | | | |
| 4pin, straight male to straight female, green, xx.xm | 21349293405xxx | 21349293477xxx | |
| 4pin, straight male to straight male, green, xx.xm | 21349292405xxx | 21349292477xxx | |
| 4pin, angled male to angled male, green, xx.xm | 21349494405xxx | 21349494477xxx | |

M12 D-Code Outdoor Assemblies



M12 4-pole Single Ended
Outdoor Overmolded Straight



M12 4-pole Double Ended
Outdoor Overmolded Straight

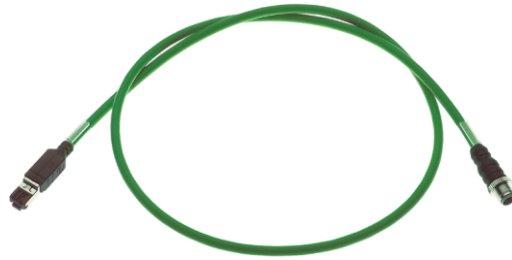
| 4pin Overmolded Single Ended – PVC Black | | HARTING Part Number | |
|--|-----------------------------|-----------------------------|--|
| Description | Straight | Angled | |
| Male to flying leads 4xAWG22/7, 1.0m | 09472200002 | 09478000002 | |
| Male to flying leads 4xAWG22/7, 1.5m | 09472200003 | 09478000003 | |
| Male to flying leads 4xAWG22/7, 3.0m | 09472200005 | 09478000005 | |
| Male to flying leads 4xAWG22/7, 5.0m | 09472200006 | 09478000006 | |
| Male to flying leads 4xAWG22/7, 7.5m | 09472200022 | 09478000022 | |
| Male to flying leads 4xAWG22/7, 10.0m | 09472200011 | 09478000011 | |
| Male to flying leads 4xAWG22/7, 20.0m | 09472200013 | 09478000013 | |
| 4pin Overmolded Double Ended – PVC Black | | | |
| Description | Straight (both males) | Angled (both males) | |
| Male to male, 4xAWG22/7, 1.0m | 09472222002 | 09478080002 | |
| Male to male, 4xAWG22/7, 1.5m | 09472222003 | 09478080003 | |
| Male to male, 4xAWG22/7, 3.0m | 09472222005 | 09478080005 | |
| Male to male, 4xAWG22/7, 5.0m | 09472222006 | 09478080006 | |
| Male to male, 4xAWG22/7, 7.5m | 09472222022 | 09478080022 | |
| Male to male, 4xAWG22/7, 10.0m | 09472222011 | 09478080011 | |
| Male to male, 4xAWG22/7, 20.0m | 09472222013 | 09478080013 | |

M12 D-Code Outdoor Assemblies



| 4pin Overmolded Single Ended – SERCOS Red | | HARTING Part Number |
|--|--|----------------------------|
| Description | | Straight |
| Male to flying leads 4xAWG22/7, 1.0m | | 09472200002018 |
| Male to flying leads 4xAWG22/7, 1.5m | | 09472200003018 |
| Male to flying leads 4xAWG22/7, 3.0m | | 09472200005018 |
| Male to flying leads 4xAWG22/7, 5.0m | | 09472200007018 |
| Male to flying leads 4xAWG22/7, 7.5m | | 09472200018018 |
| Male to flying leads 4xAWG22/7, 10.0m | | 09472200012018 |
| Male to flying leads 4xAWG22/7, 20.0m | | 09472200014018 |
| 4pin Overmolded Double Ended – SERCOS Red | | |
| Description | | Straight (both males) |
| Male to male, 4xAWG22/7, 1.0m | | 09472222002018 |
| Male to male, 4xAWG22/7, 1.5m | | 09472222003018 |
| Male to male, 4xAWG22/7, 3.0m | | 09472222005018 |
| Male to male, 4xAWG22/7, 5.0m | | 09472222007018 |
| Male to male, 4xAWG22/7, 7.5m | | 09472222018018 |
| Male to male, 4xAWG22/7, 10.0m | | 09472222012018 |
| Male to male, 4xAWG22/7, 20.0m | | 09472222014018 |

M12 D-Code RJ45 Assemblies



M12 4-pole Straight Male to RJ45
PUR Green

| 4pin Overmolded Double Ended – M12 to RJ45 | HARTING Part Number | |
|---|-----------------------------|-----------------------------|
| Description | PVC Black Outdoor Cable | PUR Green Trailing Cable |
| Straight male to RJ45 Cat5, 4xAWG22/7, 1.0m | 09457005063 | 09457005022 |
| Straight male to RJ45 Cat5, 4xAWG22/7, 1.5m | | 09457005023 |
| Straight male to RJ45 Cat5, 4xAWG22/7, 3.0m | 09457005066 | 09457005025 |
| Straight male to RJ45 Cat5, 4xAWG22/7, 5.0m | 09457005068 | 09457005027 |
| Straight male to RJ45 Cat5, 4xAWG22/7, 10m | 09457005073 | 09457005051 |
| Straight male to RJ45 Cat5, 4xAWG22/7, 20m | 09457005075 | 09457005053 |

M12 D-Code Ha-VIS EtherRail® Assemblies



M12 4-pole Single Ended
Straight EtherRail Cat 5 Black



M12 4-pole Single Ended
Straight EtherRail Cat 5 Blue

**Lengths for EtherRail® Cable Assemblies are
0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0, 15.0, 20.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 5.0m = "050", 10m = "100",
15m = "150", 20m = "200", etc.)

| Overmolded Single Ended | HARTING Part Number |
|--|---------------------|
| Straight male, EtherRail® Flex (4xAWG22/7), Cat5 Black xx.xm | 09482200011xxx |
| Straight male, EtherRail® Flex (4xAWG22/7), Cat5 Blue xx.xm | 21333900413xxx |
| Straight male, EtherRail® UltraFlex (4xAWG22/19), xx.xm | 09482200012xxx |
| Angled male, EtherRail® Flex (4xAWG22/7), xx.xm | 09488000011xxx |
| Angled male, EtherRail® Ultra Flex (4xAWG22/19), xx.xm | 09488000012xxx |
| Single Ended Press & Go | |
| Straight male, EtherRail® Flex (4xAWG22/7), xx.xm | 21330900401xxx |
| Straight male, EtherRail® UltraFlex (4xAWG22/19), xx.xm | 21330900400xxx |
| Straight female, EtherRail® Flex (4xAWG22/7), xx.xm | 21331600401xxx |

**Lengths for EtherRail® Cable Assemblies are
0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0, 15.0, 20.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 5.0m = "050", 10m = "100",
15m = "150", 20m = "200", etc.)

| Overmolded Double Ended | HARTING Part Number |
|--|----------------------------|
| Straight male to straight male, EtherRail® Flex (4xAWG22/7), xx.xm | 09482222011xxx |
| Straight male to straight male, EtherRail® UltraFlex (4xAWG22/19), xx.xm | 09482222012xxx |
| Angled male to angled male, EtherRail® Flex (4xAWG22/7), xx.xm | 09488080011xxx |
| Angled male to angled male, EtherRail® Ultra Flex (4xAWG22/19), xx.xm | 09488080012xxx |
| Double Ended Press & Go | |
| Press&Go, straight male to straight male, EtherRail® Flex (4xAWG22/7), xx.xm | 21330909401xxx |
| PushPull Press&Go, straight male to straight male, EtherRail® Flex (4xAWG22/7), xx.xm** | 21332323401xxx |

**Compatible with PushPull

M12 D-Code Ha-VIS EtherRail® Assemblies



M12 4pin Straight Male to RJ45

**Lengths for EtherRail® Cable Assemblies are
0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0, 15.0, 20.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 5.0m = "050", 10m = "100",
15m = "150", 20m = "200", etc.)

| Panel Feed Through (PFT) | HARTING Part Number |
|--|---------------------|
| Single Ended, female panel mount, EtherRail® Flex (4xAWG22/7), xx.xm | 21332100401xxx |
| PushPull Single Ended, female panel mount, EtherRail® Flex (4xAWG22/7), xx.xm** | 21332200401xxx |
| Double Ended, female crimp panel mount to male crimp, EtherRail® Flex (4xAWG22/7), xx.xm | 21331211401xxx |
| RJ45 Assemblies | |
| Overmolded, straight male M12 to RJ45, EtherRail® Flex (4xAWG22/7), xx.xm | 09480222011xxx |
| Straight female Press and Go M12 to Overmolded RJ45, EtherRail® Flex (4xAWG22/7), xx.xm | 09482402711xxx |

**Compatible with PushPull

M12 L-Code Connectors



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CONTENTS**

M12 L-Code Connectors, PFTs, PCB Mounts



M12 PFT 5-pole
Male AWG16



M12 HARAX®
5-pole Male



M12 PCB Mount 5-pole
Female front mounting

| HARAX® / IDC Termination | HARTING Part Number | |
|--|-----------------------------|-----------------------------|
| Description | Male | Female |
| 4+PE pin, shielded | 21032961505 | 21032962505 |
| Crimp Termination | | |
| 4+PE pin, shielded | 21038961505 | 21038962505 |
| Panel Feed Throughs (Flying Leads) | | |
| 4+PE pin PFT to 0.3m 1.5mm ² (AWG16) flying leads | 21035961505 | 21035962505 |
| 4+PE pin PFT to 0.3m 2.5mm ² (AWG14) flying leads | 21035991505 | 21035992505 |
| PCB Mounts | | |
| 4+PE pin female PCB mount for rear mounting | | 21033962530 |
| 4+PE pin female PCB mount for front mounting | | 21033962531 |
| 4+PE pin male straight PCB mount (w/o housing)** | 21033961505 | |

Click [here](#) for Crimp Contacts and Tooling

**Need housing? Click [here](#) to see housing options



M12 L-Code Standard Assemblies



M12 5-pole Double
Ended Female to Male

**Standard Lengths for All Cable Assemblies are 1.0, 2.0, 5.0, 10.0, 15.0, 20.0 meters
(Other lengths available upon request)**

(xxx extension is 1.0m = "010", 2.0m = "020", 5.0m = "050", 10m = "100", 15m = "150",
20m = "200")

| 5pin Single Ended Assemblies | | HARTING Part Number | |
|--|--------------------------------|--------------------------------|--|
| Description | Unshielded | Shielded | |
| 4+PE, Female, 16AWG. PVC grey, xx.xm | 2133A700523xxx | 2133A700518xxx | |
| 4+PE, Female, 14AWG. PVC grey, xx.xm | 2133A700524xxx | 2133A700519xxx | |
| 5pin Double Ended Assemblies | | | |
| 4+PE, Female to Male, 16AWG. PVC grey, xx.xm | 2133A7A8523xxx | 2133A7A8518xxx | |
| 4+PE, Female to Male, 14AWG. PVC grey, xx.xm | 2133A7A8524xxx | 2133A7A8519xxx | |

M12 X-Code Connectors



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CONTENTS**

M12 X-Code Connectors



M12 Crimp Male 8-pole
Slim Design Angled



M12 Crimp Female 8-pole
Slim Design Straight

| Crimp Termination | HARTING Part Number | |
|---|-----------------------------|-----------------------------|
| | Male | Female |
| Description | | |
| 8pin, slim design, straight, for cable diameter 4.4-8.8mm | 21038811805 | |
| 8pin, slim design, angled, for cable diameter 5.7-8.8mm | 21038813805 | 21038814805 |
| 8pin, slim design, straight, for cable diameter 5.7-8.8mm | | 21038812805 |

Click [here](#) for PushPull options

Click [here](#) for preLink® options

Click [here](#) for Crimp Contacts and Tooling

M12 X-Code Connectors – Panel Feed Through



M12 PFT Female to RJ45 8-pole Straight



M12 PFT Crimp Female 8-pole Slim Design

| <u>Crimp Termination</u> | HARTING Part Number |
|---|-----------------------------|
| 8pin female connector, PFT, slim design, straight, for cable diameter 5.5-8.8mm** | 21038812825 |
| 8pin female connector, PFT, slim design, straight, for cable diameter 4.5-8.8mm** | 21038812835 |
| Other | |
| 8pin female to RJ45 panel feed through straight, Cat6A | 21033812800 |
| 8pin female to RJ45 panel feed through angled, Cat6A | 21033814800 |
| 8pin female/female gender changer, Cat6A** | 21033816816 |
| M12 D-code (4pin) female to PushPull X-code (8pin) female gender changer** | 21033816404 |

**Compatible with PushPull

Click [here](#) for PushPull options

Click [here](#) for preLink® options

Click [here](#) for Crimp Contacts and Tooling

M12 X-Code Connectors – PCB Mounts



M12 Cat6A Female
8-pole PCB w/o housing



M12 Cat 5 Female 8-pole
PCB with rear panel mounting



M12 Cat 6A Female
8-pole PCB with rear
panel mounting

| Cat 6A Versions | HARTING Part Number | |
|---|-----------------------------|-----------------------------|
| | Straight | Angled |
| Description | | |
| 8pin female PCB without housing, Cat6A** | 21033812806 | 21033814806 |
| 8pin female PCB with rear panel mounting, Cat6A (w/ housing 21033012000) | 21033812810 | 21033814807 |
| 8pin female PCB with rear panel mounting, Cat6A (w/ housing 21033012000) (individual piece) | 21033812811 | 21033814809 |
| 8pin female PCB with rear panel mounting, Cat6A (w/ housing 21033012002) | 21033812804 | 21033814804 |
| 8pin female PCB with front panel mounting, Cat6A (w/ housing 21033012003)** | 21033812802 | 21033814802 |
| 8pin female PCB with front panel mounting, Cat6A (w/ housing 21033012003) (individual piece)** | 21033812813 | 21033814810 |
| Cat 5 Versions | | |
| 8pin female PCB without housing, straight, Cat5** | 21033812807 | |
| 8pin female PCB with rear panel mounting, straight, Cat5 (w/ housing 21033012002) | 21033812805 | |
| 8pin female PCB with rear panel mounting, straight, Cat5 (w/ housing 21033012000) | 21033812809 | |
| 8pin female PCB with rear panel mounting, straight, Cat5 (w/ housing 21033012000) (individual piece) | 21033812812 | |
| 8pin female PCB with front panel mounting, straight, Cat5 (w/ housing 21033012003)** | 21033812803 | |
| 8pin female PCB with front panel mounting, straight, Cat5 (w/ housing 21033012003) (individual piece)** | 21033812814 | |

**Compatible with PushPull

M12 X-Code Connectors – PCB Mounts



M12 Female 8-pole
Straight SMT PCB Mount



M12 Female 8-pole Straight SMT
with transformer PCB Mount

| SMT PCB Mounts with transformers, shielded | HARTING Part Number | |
|---|-----------------------------|-----------------------------|
| Description | 1 Gbit | 10 Gbit |
| 8pin female straight* | 21033812820 | |
| 8pin female straight, reel of 75pieces* | 21033812821 | |
| 8pin female straight, shielded, (w/o housing) | 21033812815 | 21033812818 |
| 8pin female straight, PoE (Power over Ethernet) enabled (w/o housing) | 21033812817 | 21033812823 |
| 8pin female straight, PoE enabled (w/ housing 21033012006) | 21033812824 | 21033812825 |
| 8pin female straight, (w/o housing) | 21033814820 | 21033814823 |
| 8pin female straight, PoE enabled (w/o housing) | 21033814822 | 21033814825 |
| 8pin female angled, PoE enabled (w/ housing 21033012006) | 21033814826 | 21033814827 |

*For housing, please use [2141000010](#) or [2141000013](#)

To learn more about M12 PCB Mounts with transformers, click [here](#)

M12 X-Code Cable Assemblies



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M12 X-Code Standard Assemblies



M12 8-pole PFT Single Ended Female

| 8pin Single Ended Press & Go | HARTING Part Number |
|--|--------------------------------|
| Straight male, 4x2xAWG26/7 Cat6a, PVC yellow, xx.xm | 21330500855xxx |
| Straight male, 4x2xAWG26/7 Cat7a, PUR yellow, xx.xm | 21330500854xxx |
| 8pin Double Ended Press & Go | |
| Straight male to straight male, 4x2xAWG26/7 Cat6a, PVC yellow, xx.xm | 21330505855xxx |
| Straight male to straight male, 4x2xAWG26/7 Cat7a, PUR yellow, xx.xm | 21330505850xxx |
| 8pin Single Ended - Panel Feed Through | |
| Female Panel Feed Through, (4x2xAWG26/7) Cat7a, PUR yellow xx.xm | 21330800850003 |

M12 X-Code Standard Assemblies



M12 8-pole PushPull Press & Go
Straight Male to RJ45



M12 8-pole Press & Go
Straight Male to RJ45

| 8pin to RJ45 Press & Go | HARTING Part Number |
|---|--------------------------------|
| Male to Cat6 RJ45, 4x2xAWG26/7, PVC, 1m | 09478411001 |
| Male to Cat6 RJ45, 4x2xAWG26/7, PVC, 2m | 09478411002 |
| Straight male to RJ45, 4x2xAWG26/7 Cat6a, PVC yellow, xx.xm | 09489323757xxx |
| Straight male to RJ45, 4x2xAWG26/7 Cat6a, PUR yellow, xx.xm | 09489323756xxx |
| Straight male to RJ45, 4x2xAWG26/7 Cat5e, PVC Outdoor black, xx.xm | 09489323754xxx |
| 8pin Panel Feed Through to RJ45 | |
| Double Ended, female PFT to RJ45, (4x2xAWG26/7) Cat5e, PVC outdoor black, xx.xm | 09482369754xxx |
| Har-port RJ45 to M12 female PFT, 4x2xAWG26/7 Cat5e, PVC outdoor black, xx.xm | 09481369754xxx |
| 8pin PushPull Press & Go to RJ45 | |
| PushPull Press&Go, straight male to RJ45, 4x2xAWG26/7 Cat6a, PVC yellow, xx.xm** | 09488223757xxx |
| PushPull Press&Go, straight male to RJ45, 4x2xAWG26/7 Cat6a, PUR yellow, xx.xm** | 09488223756xxx |
| Profinet Options | |
| Press&Go, straight female, Profinet PVC (4x2xAWG23/7) Cat6a green, xx.xm | 21331500857xxx |
| Straight female to straight female, Profinet PVC (4x2xAWG23/7) Cat6a green, xx.xm | 21331515857xxx |

**Compatible with PushPull, for PushPull Press & Go standard lengths are 1m, 2m, 3m, 5m, 10m

M12 X-Code Ha-VIS EtherRail® Assemblies



M12 8-pole PushPull Press & Go
Straight Male EtherRail Flex

**Lengths for EtherRail® Cable Assemblies are
0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0, 15.0, 20.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 5.0m = "050", 10m = "100",
15m = "150", 20m = "200", etc.)

| 8pin Single Ended Press & Go | HARTING Part Number |
|--|--------------------------------|
| Press&Go, straight male, EtherRail® Flex (4x2xAWG24/7) Cat7 black, xx.xm | 21330500853xxx |
| Press&Go, straight female, EtherRail® Flex (4x2xAWG24/7) Cat7 black, xx.xm | 21331500853xxx |
| 8pin Single Ended Panel Feed Through | |
| Female Panel Feed Through to Flying Leads, EtherRail® Flex (4x2xAWG24/7) Cat7 black, xx.xm | 21330700853xxx |
| Press&Go, straight male to female panel feed through, EtherRail® Flex (4x2xAWG24/7) Cat7 black, PVC, xx.xm | 21330705853xxx |
| 8pin Single Ended PushPull Press & Go | |
| PushPull Press&Go, straight male, EtherRail® Flex (4x2xAWG24/7) Cat7 black, xx.xm** | 21332900853xxx |

**Compatible with PushPull, for PushPull Press & Go standard lengths are
1m, 2m, 3m, 5m, 10m

**Lengths for EtherRail® Cable Assemblies are
0.5, 1.0, 1.5, 2.0, 5.0, 7.5, 10.0, 15.0, 20.0 meters
(Other lengths available upon request)**

(xxx extension is 0.5m = "005", 1.0m = "010", 1.5m = "015", 5.0m = "050", 10m = "100",
15m = "150", 20m = "200", etc.)

| 8pin Double Ended – Slim Design, Press & Go | HARTING Part Number |
|---|----------------------------|
| Straight male to straight male, EtherRail® Flex (4x2xAWG24/7) Cat7 black, xx.xm | 21330505853xxx |
| Straight male to straight female, EtherRail® Flex (4x2xAWG24/7) Cat7 black, xx.xm | 21331505853xxx |
| Straight female to straight female, EtherRail® Flex (4x2xAWG24/7) Cat7 black, xx.xm | 21331515853xxx |
| Straight male to Slim Design angled male, EtherRail® Flex (4x2xAWG24/7) Cat7 black, xx.xm | 213305B8853xxx |
| 8pin Double Ended – PushPull Press & Go | |
| PushPull Press&Go, straight male to straight male, EtherRail® Flex (4x2xAWG24/7) Cat7 black, xx.xm** | 21332929853xxx |
| 8pin Double Ended – RJ45 | |
| Female panel feed through to RJ45, EtherRail® Flex (4x2xAWG24/7) Cat7 black, xx.xm | 09484463751xxx |
| Male slim design to RJ45, EtherRail® Flex (4x2xAWG24/7) Cat7 black, xx.xm | 09487063751xxx |

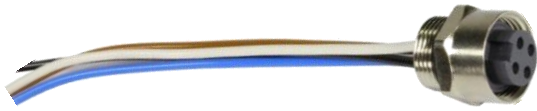
**Compatible with PushPull, for PushPull Press & Go standard lengths are
1m, 2m, 3m, 5m, 10m

7/8" Connectors

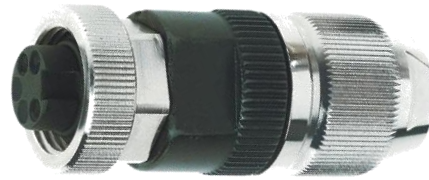


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7/8" Connectors and Panel Receptacles



7/8" 4-pole Female PFT to
0.5 AWG18 flying leads



7/8" 4+PE Female
HARAX®

| Connectors | HARTING Part Number |
|---|--------------------------------|
| <u>HARAX® / IDC Termination</u> | |
| 7/8" circular 5pin male | 21041161505 |
| 7/8" circular 4+PE female | 21041162505 |
| Panel Receptacles | |
| 7/8" circular 2+PE pin male panel feed through to 20cm AWG18 flying leads | 21043161305 |
| 7/8" circular 2+PE pin female panel feed through to 0.5m AWG18 flying leads | 21043162301 |
| 7/8" circular 4pin female panel feed through to 20cm AWG18 flying leads | 21043162400 |
| 7/8" circular 4pin female panel feed through to 0.5m AWG18 flying leads | 21043162401 |
| 7/8" circular 4+PE pin male panel feed through to 0.5m AWG18 flying leads | 21347400571005 |
| 7/8" circular 4+PE pin female panel feed through to 0.5m AWG18 flying leads | 21043162501 |

7/8" Cable Assemblies



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7/8" Standard Assemblies



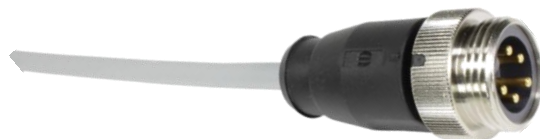
7/8" 4-pole Female
Single Ended Angled

**Standard Lengths for 7/8" Single Ended Cable Assemblies are
1.5, 3.0, 5.0, 7.5, 10.0 meters
(Other lengths available upon request)**

(xxx extension is 1.5m = "015", 3.0m = "030", 5.0m = "050", 7.5m = "075", 10m = "100")

| 2pin+GND Single Ended | HARTING Part Number | |
|-------------------------------------|--------------------------------|--------------------------------|
| Description | PVC Gray | PUR Black |
| 2pin+PE, straight female, xx.xm | 21349700393xxx | 21349700394xxx |
| 4pin Single Ended | | |
| 4pin, straight female, xx.xm | 21349700495xxx | 21349700496xxx |
| 4pin, angled female, xx.xm | 21349900495xxx | 21349900496xxx |
| 4pin+PE Single Ended | | |
| 4pin+PE, straight female, xx.xm | 21349700597xxx | 21349700598xxx |
| 4pin+PE, angled female, xx.xm | 21349900597xxx | 21349900598xxx |
| Other | | |
| 2pin+PE, straight female, TPU, 2.0m | 21045162302** | |
| 4pin, straight male, TPU, 2.0m | 21045161402** | |

7/8" Standard Assemblies



7/8" 4-pole Double Ended Straight



7/8" 4-pole Double Ended Angled

**Standard Lengths for 7/8" Double Ended Cable Assemblies are
0.3, 0.6, 1.0, 1.5 and 2.0 meters
(Other lengths available upon request)**

(xxx extension is 0.3m = "003", 0.6m = "006", 0.1m = "010", 1.5m = "015", 2.0m = "020")

4pin Double Ended

| Description | PVC Gray | PUR Black |
|---|--------------------------------|--------------------------------|
| 4pin, straight male/ straight female, xx.xm | 21349697495xxx | 21349697496xxx |
| 4pin, angled male/ angled female, xx.xm | 21349899495xxx | 21349899496xxx |

4pin + PE Double Ended

| | | |
|--|--------------------------------|--------------------------------|
| 4pin+PE, straight male/ straight female, xx.xm | 21349697597xxx | 21349697598xxx |
| 4pin+PE, angled male/ angled female, xx.xm | 21349899597xxx | 21349899598xxx |



Ha-VIS preLink®: M12 D-Code Connectors



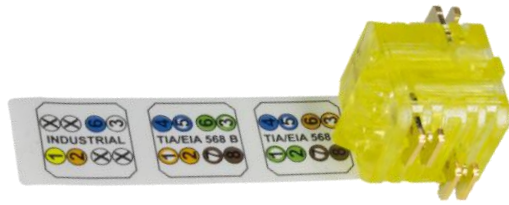
Assembly Tool



M12 preLink® Housing and Insert Connector Set

| Ha-VIS preLink® | HARTING Part Number |
|--|-------------------------------|
| Housing - shielded, straight | 20820001210 |
| Male Insert – 4pin | 20820051214 |
| Connector Set (housing and insert) – Male (buy cube separate) | 20820050001 |
| Connector Set (housing and insert) – Female (buy cube separate) | 20820052001 |
| RJ45 terminal block, AWG 22/23 (yellow) – 10 pieces | 20820000001 |
| RJ45 terminal block, AWG 26/27 (white) – 10 pieces | 20820000003 |
| RJ45 terminal block (4pin), AIDA compliant, AWG 23-22 (10 pieces) – Black | 20820000005 |
| RJ45 terminal block (4pin), AIDA compliant, AWG 23-22 (100 pieces) – Black | 20820000005XL |
| Assembly Tool | 20820009901 |

Ha-VIS preLink®: M12 X-Code Connectors



Terminal Block



M12 preLink® Housing and
Insert Connector Set

| Ha-VIS preLink® | HARTING Part Number |
|---|-----------------------------|
| Housing - shielded, straight | 20820001210 |
| Male Insert – 8pin | 20820061218 |
| Connector Set (housing and insert) – Male (buy cube separate) | 20820050002 |
| Connector Set (housing and insert) – Female (buy cube separate) | 20820062001 |
| RJ45 terminal block, AWG 22/23 (yellow) – 10 pieces | 20820000001 |
| RJ45 terminal block, AWG 26/27 (white) – 10 pieces | 20820000003 |
| Assembly Tool | 20820009901 |

Ha-VIS preLink®: Cable Assemblies



Ha-VIS preLink® preLink
terminal to RJ45



Ha-VIS preLink® preLink
terminal double sided

| Ha-VIS preLink® | HARTING Part Number |
|--|-----------------------------|
| Cat5 Type C 2x2xAWG22/7, preLink terminal to RJ45, PUR green, xx.xm | 20826311xxx |
| Cat5 Type C 2x2xAWG22/7, preLink terminal double sided, PUR green, xx.xm | 20826302xxx |
| Cat6a 4x2AWG27/7, preLink terminal with protection cap to flying leads, PUR yellow, xx.xm | 20826001xxx |
| Cat6a 4x2AWG27/7, preLink terminal with protection cap - double ended, PUR yellow, xx.xm | 20826002xxx |
| Cat6a 4x2AWG27/7, preLink terminal with protection cap to overmolded RJ45, PUR yellow, xx.xm | 20826011xxx |



PushPull: M12 A-Code and Compatible Parts



M12 Crimp Female 8-pole Shielded Straight



M12 Crimp Male 4/5-pole slim design straight shielded

| <u>PushPull</u> Connectors | |
|--|---|
| <u>HARAX® / IDC Termination</u> | HARTING Part Number |
| 4pin, shielded, slim design, AWG 22, for cable 5.7-8.8mm | 21033221401 21033222401 |
| <u>Crimp Termination</u> | |
| 4/5pin male shielded, crimp, straight, for cable 5.7-8.8mm | 21038211530 |
| 4/5pin male shielded, crimp, angled, for cable 5.7-8.8mm | 21038213530 |
| 8pin male shielded, crimp, straight, for cable 5.7-8.8mm | 21038211830 |
| 8pin female shielded, crimp, straight, for cable 5.7-8.8mm | 21038212830 |
| 8pin male shielded, crimp, angled, for cable 5.7-8.8mm | 21038213830 |
| Crimp Termination - Panel Feed Through | |
| 4/5pin female shielded, PFT, for cable 5.7-8.8mm | 21038212525 |
| 8pin female shielded, PFT, straight, for cable 5.7-8.8mm | 21038212825 |
| 8pin female shielded, PFT, straight, for cable 4.5-8.8mm | 21038212835 |
| Through-Hole PCB Mounts | |
| | Male |
| 4pin straight PCB mount (w/o housing), screened version | 21033211418 |
| 5pin straight PCB mount (w/o housing), screened version | 21033211518 |
| 8pin straight PCB mount (w/o housing), screened version | 21033211818 |

Click [here](#) for Crimp Contacts and Tooling

PushPull: M12 D-Code and Compatible Parts



M12 PushPull Crimp 4-pole Female Adapter



M12 PushPull Crimp 4-pole Male Shielded

| PushPull Connectors | |
|--|-----------------------------|
| HARAX® / IDC Termination | HARTING Part Number |
| 4pin male shielded, HARAX/IDC, AWG 22, for cable 5.7-8.8mm | 21033821401 |
| 4pin female shielded, HARAX/IDC, AWG 22, for cable 5.7-8.8mm | 21033822401 |
| Crimp Termination | |
| 4pin male shielded, crimp, straight, for cable 5.7-8.8mm | 21038811430 |
| 4pin male shielded, crimp, angled, for cable 5.7-8.8mm | 21038813430 |
| 4pin female shielded, crimp, straight, for cable 5.7-8.8mm | 21038812430 |
| Female adapter to PushPull female (to convert standard female M12 to PushPull M12) | 21033812403 |
| Crimp Termination - Panel Feed Through version | |
| 4pin shielded, PFT, straight, female, for cable 5.7-8.8mm ** | 21038812425 |
| PCB Mounts | |
| 4pin female, angled PCB mount w/o fixing hole** | 21033814436 |
| 4pin female, angled PCB mount with fixing hole** | 21033814437 |
| Other | |
| 4pin gender changer female/female** | 21033816403 |

Click [here](#) for Crimp Contacts and Tooling

PushPull: M12 X-Code and Compatible Parts



M12 PushPull Crimp Male
8-pole Slim Design Straight



M12 PushPull Crimp Male
8-pole Slim Design Angled

| PushPull Connectors | | |
|---|-----------------------------|-----------------------------|
| Crimp Termination | HARTING Part Number | |
| 8pin male connector, straight, for cable 5.7-8.8mm | 21038811830 | |
| 8pin male connector, angled, for cable 5.7-8.8mm | 21038813830 | |
| Crimp Termination – Panel Feed Through | | |
| 8pin female connector, PFT, straight, for cable 5.5-8.8mm | 21038812825 | |
| Cat 6A PCB Mount Versions | Straight | Angled |
| 8pin female PCB without housing | 21033812806 | 21033814806 |
| 8pin female PCB with front panel mounting, (w/ housing 21033012003) | 21033812802 | 21033814802 |
| 8pin female PCB with front panel mounting, (w/ housing 21033012003) (individual piece) | 21033812813 | 21033814810 |
| Cat 5 PCB Mount Versions | | |
| 8pin female PCB without housing, straight, | 21033812807 | |
| 8pin female PCB with front panel mounting, straight, (w/ housing 21033012003) | 21033812803 | |
| 8pin female PCB with front panel mounting, straight, (w/ housing 21033012003) (individual piece) | 21033812814 | |
| Other | | |
| 8pin female/female gender changer, Cat6A | 21033816816 | |
| M12 D-code (4pin) female to PushPull X-code (8pin) female gender changer | 21033816404 | |

Click [here](#) for Crimp Contacts and Tooling

Stainless Steel (INOX) Options



Stainless Steel (INOX) Options



M12 B-Code INOX
Female 5-pole straight



M12 D-Code INOX
Male 4-pole straight

| M12 A-Code | HARTING Part Number | |
|---|-----------------------------|-----------------------------|
| Description | Male | Female |
| 4pin female, HARAX® (IDC) | | 21032222435 |
| 4/5pin, crimp, for cable 4.5-8.8mm | 21038222535 | 21038221535 |
| M12 B-Code | | |
| 5pin, shielded, crimp, for cable diameter 4.5-8.8mm | 21038411535 | 21038412535 |
| M12 D-Code | | |
| 4pin, shielded, crimp, for cable diameter 4.5-8.8mm | 21038821435 | |

Crimp Flange Options



Crimp Flange Connectors



- Innovative solutions from HARTING are always in development, and the latest circular product to come out is the M12 Crimp provides near-perfect shielding for the connector and cable. Crimp flange improves mechanical resistance and shielding by incorporating the crimp flange piece that crimps the cable and connector together for a solid connection. These have been specifically designed for rail application where higher shielding is required.
- Please contact HARTING's Tech Support for more information on this new product [here](#).



Crimp Flange Options



M12 D-Code 4pin Male
Straight, for cable 6.6mm



M12 A-Code 4/5pin Male
Angled, for cable 6.0mm

| Cable | Crimp Flange | Diameter |
|---|-----------------------------|-----------------------------|
| BETAtrans GKW C-flex R 600/1000V 2x0.75mm ² | 21010100017 | 5.3mm |
| BETAtrans GKW C-FLEX R 600/1000V 4x0.75mm ² | 21010100018 | 6.0mm |
| BETAtrans Data C-FLEX Cat5 1x4xAWG 22/7 | 21010100019 | 6.6mm |
| RADOX DATABUS 120 OHM 2x0.5mm ² +0.5mm ² | 21010100020 | 7.8mm |
| BETAtrans Data C-FLEX 4x2xAWG24/7 | 21010100021 | 8.1mm |
| RADOX DATABUS 100 OHM Cat5 COM 4XAWG22 | 21010100022 | 7.3mm |
| DTREN150002-300V-4x0,5mm ² , Qadrox 100 Ohms-Filotex | 21010100024 | 8.5mm |
| Connectors with Crimp Flange Set Included | | |
| Using Crimp Flange Set 21010100017 (5.3mm) | Male | Female |
| M12 A-Code 4/5pin shielded, crimp, straight | 21038211511 | 21038212511 |
| M12 A-Code 4/5pin shielded, crimp, angled | 21038213511 | 21038214511 |
| Using Crimp Flange Set 21010100018 (6.0mm) | | |
| M12 A-code 4/5pin shielded, crimp, straight | 21038211512 | 21038212512 |
| M12 A-code 4/5pin shielded, crimp, angled | 21038213512 | 21038214512 |
| Using Crimp Flange Set 21010100019 (6.6mm) | | |
| M12 D-code 4pin shielded, crimp, straight | 21038211512 | 21038212512 |
| M12 D-code 4pin shielded, crimp, angled | 21038213512 | 21038214512 |
| Using Crimp Flange Set 21010100020 (7.8mm) | | |
| M12 D-code 4pin shielded, crimp, straight | 21038811412 | 21038812412 |

There are more crimp flange options available for specific cables, please contact HARTING's Tech Support for more information [here](#).

Please use the links to see the datasheets that provide information on the corresponding tools and crimp inserts for each set.

Sensor Actuator Boxes

- Power strips – they're everywhere and commonly used when there are many devices that need power. Sensor actuator boxes are the same concept, except for M8/M12 connectors
- This allows easy and fast installation that can be close to the sensors / devices
- They can be applied in various industries including robotics, food + beverage, automation, and many more
- Click [here](#) to learn more about sensor actuator boxes
- See HARTING's selection on sensor actuator boxes [here](#)



M8 A-Code Snap-In Assemblies



M8 Snap-In A Code
to M8 A Code



M8 Snap-In A Code
to M12 A Code

| M8 Snap-In A Code to M8 A-Code | | HARTING Part Number | |
|--|--------------------------------|--------------------------------|--|
| Description | 3pin | 4pin | |
| Male angled to female straight 0.5m, PUR black | 2136D3D5328005 | 2136D3D5428005 | |
| Male angled to female straight 1m, PUR black | 2136D3D5328010 | 2136D3D5428010 | |
| Male angled to female straight 2m, PUR black | 2136D3D5328020 | 2136D3D5428020 | |
| M8 Snap-In A Code to M12 A-Code | | | |
| Male angled to female straight 0.5m, PUR black | 2136D3D4328005 | 2136D3D4428005 | |
| Male angled to female straight 1m, PUR black | 2136D3D4328010 | 2136D3D4428010 | |
| Male angled to female straight 2m, PUR black | 2136D3D4328020 | 2136D3D4428020 | |

These cord sets are especially designed to work with HARTING Sensor Actuator Boxes.

The male angled M8 side of the connector allows for fast easy snap in connection.

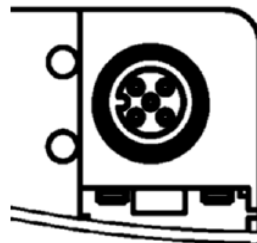
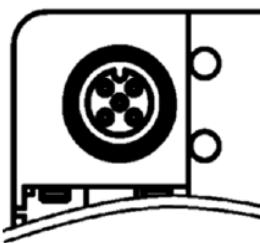
M12 A-Code 4pin Assemblies for har-SAB



| 4pin Orange Overmolded Single Ended Assemblies (for SAB) | PUR Black |
|--|--------------------------------|
| 120degree angled male with black mating face for left side, 4xAWG22, xx.xm | 2137B600430xxx |
| 120degree angled male with orange mating face for right side, 4xAWG22, xx.xm | 2137B700430xxx |

For the M12 connection to sensor actuator boxes, straight circular connectors are normally used. However, they will result in an increased space requirement because of the bending radius. HARTING has set up M12 A-code overmolded cord sets which have a 120° angled cable entry to allow for a more efficient use of space. There are two different versions of the mating face in order to simplify orientation - the mating face for the left side is black while the right side is orange.

The articles can be ordered by following P/N:



| Mating Face Left, 0°, black | Mating Face Right, 90°, orange | Length |
|-----------------------------|--------------------------------|--------|
| 2137B600430010 | 2137B700430010 | 1,0m |
| 2137B600430020 | 2137B700430020 | 2,0m |
| 2137B600430030 | 2137B700430030 | 3,0m |
| 2137B600430050 | 2137B700430050 | 5,0m |



Han® M23 Connectors

- The combination of signal, data, and power pins allows M23 circular connectors to have a variety of applications
- Robust hoods and housings allow them to withstand harsh environments
- See HARTING's selection on M23 connectors [here](#)



- Ethernet switches are needed for networks in production facilities, and HARTING has a wide variety of switches available – including the Ha-VIS eCon 4000 and 9000 families with an M12 interface.
- Click [here](#) to see HARTING’s selection on Ethernet switches
- Follow this [link](#) to see a flyer for Ethernet switches



Housings and Lock Nuts



M12 Housing Rear Mount
for Male PCB Mount



Metal Lock Nut PG 13.5

| Housings | HARTING Part Number | |
|---|-----------------------------|-----------------------------|
| | Male | Female |
| Description | | |
| M12 Housing, rear mount, for PCB mount | 21033011000 | 21033012000 |
| M12 Housing, front mount, for PCB mount** | 21033011003 | 21033012003 |
| M12 SMT Housing M14x1, 9mm height | 21410000012 | 21410000010 |
| M12 SMT Housing M14x1, 13mm height | | 21410000013 |
| SMT Counter Nut M14x1 | 21410000011 | |
| Lock Nuts | | |
| Metal Lock Nut M16 (SW18) | 21010000018 | |
| Metal Lock Nut PG13.5 (SW23) | 21010000020 | |
| Lock Nut - PG13.5 (SW24) | 21010000039 | |

Caps and Covers



Plastic Dust Cap for M12 (Viton)



Plastic Cover for M12 Female w/ lanyard for cable

| Caps and Covers | HARTING Part Number | |
|---|----------------------------|----------------------------|
| | Male | Female |
| Description | | |
| Metal Cover for M12 w/ lanyard for cable | 2101000033 | 2101000030 |
| Metal Cover for M12 w/ lanyard with small eyelet (lanyard screwed to cap) | 2101000038 | 2101000031 |
| Plastic Dust Cap for M12 (Viton) | 2101000003 | |
| Plastic Cover for M12 w/ lanyard for cable | 2141000001 | 2141000002 |
| Plastic Cover for M8 w/ lanyard for cable | 2141000003 | 2141000004 |

Crimp Contacts and Tooling for A, B, D, X, Coding



D-Sub Crimp Tool
(Turned Contacts)



D-Sub Crimp Tool
Locator for M12 A-Code

| A, B, D Code Tools and Crimp Contacts | | HARTING Part Number | |
|---|-----------------------------|-----------------------------|--|
| Description | Male | Female | |
| D-Sub Turned Contact for AWG 22-18 PL1 | 09670003576 | 09670003476 | |
| D-Sub Turned Contact for AWG 24-20 PL1 | 09670008576 | 09670008476 | |
| D-Sub Turned Contact for AWG 26-22 PL1 | 09670005576 | 09670005476 | |
| D-Sub Crimp Tool (Turned Contacts) | 09990000501 | | |
| D-Sub Crimp Tool Locator for D-Sub turned contacts | 09990000531 | | |
| 8-pin Crimp Contacts and Tools | | | |
| M12 A-code 8pin contact AWG26-22 (0.13-0.33mm ²), PL1 | 21011009020 | 21011009025 | |
| D-Sub Crimp Tool Locator for M12 A-code 8pin contacts | 61036000023 | 09990000637 | |
| X-Code Tools and Crimp Contacts | | | |
| M12 X-code contact AWG28-24 (0.08-0.22mm ²), PL1 | 21011009014 | 21011009023 | |
| M12 X-code contact AWG26-23 (0.13-0.25mm ²), PL1 | 21011009019 | 21011009021 | |
| D-Sub Crimp Tool (Turned Contacts) | 09990000501 | | |
| D-Sub Crimp Tool Locator for X-code male contacts | 09990000525 | | |
| D-Sub Crimp Tool Locator for X-code female contacts | 09990000635 | | |

M12 L-Code Crimp Contacts and Tooling



M12 Power Contact
Male AWG16



M12 Power Contact
Female AWG14



M12 D-Sub Crimp Tool
for Power Contacts

| Crimp Contacts and Tooling | HARTING Part Number | |
|---|-----------------------------|-----------------------------|
| | Male | Female |
| D-Sub Crimp Tool for Power Contacts | | 09990000509 |
| D-Sub Crimp Tool Locator for M12 L-Code Power Contacts | | 09990000638 |
| M12 Power Contact, 23.2mm, AWG21 / 0.5mm ² | 21011009923 | 21011009931 |
| M12 Power Contact, 23.2mm, AWG20 / 0.75mm ² | 21011009924 | 21011009932 |
| M12 Power Contact, 23.2mm, AWG16 / 1.5mm ² | 21011009925 | 21011009933 |
| M12 Power Contact, 23.2mm, AWG14 / 2.5mm ² | 21011009926 | 21011009934 |
| M12 Power PE Contact, male, 24.8mm, AWG21 / 0.5mm ² | 21011009927 | |
| M12 Power PE Contact, male, 24.8mm, AWG20 / 0.75mm ² | 21011009928 | |
| M12 Power PE Contact, male, 24.8mm, AWG16 / 1.5mm ² | 21011009929 | |
| M12 Power PE Contact, male, 24.8mm, AWG14 / 2.5mm ² | 21011009930 | |

M8 / M12 / 7/8" Dynamometric Screwdrivers



M8 Dynamometric
Screwdriver



M12 - L Dynamometric
Screwdriver

| Description | HARTING Part Number |
|---|-----------------------------|
| M8 Dynamometric Torque Screwdriver, SW9 (0.4Nm) | 09990000380 |
| M12 Dynamometric Torque Screwdriver, SW13 (0.6Nm) for M12-S | 09990000382 |
| M12 Dynamometric Torque Screwdriver, SW15 (0.6Nm) for M12 Slim Design | 09990000646 |
| M12 Dynamometric Torque Screwdriver, SW17 (0.6Nm) for M12-L | 09990000384 |
| 7/8" Dynamometric Torque Screwdriver, SW22 (1.5Nm) | 09990000395 |