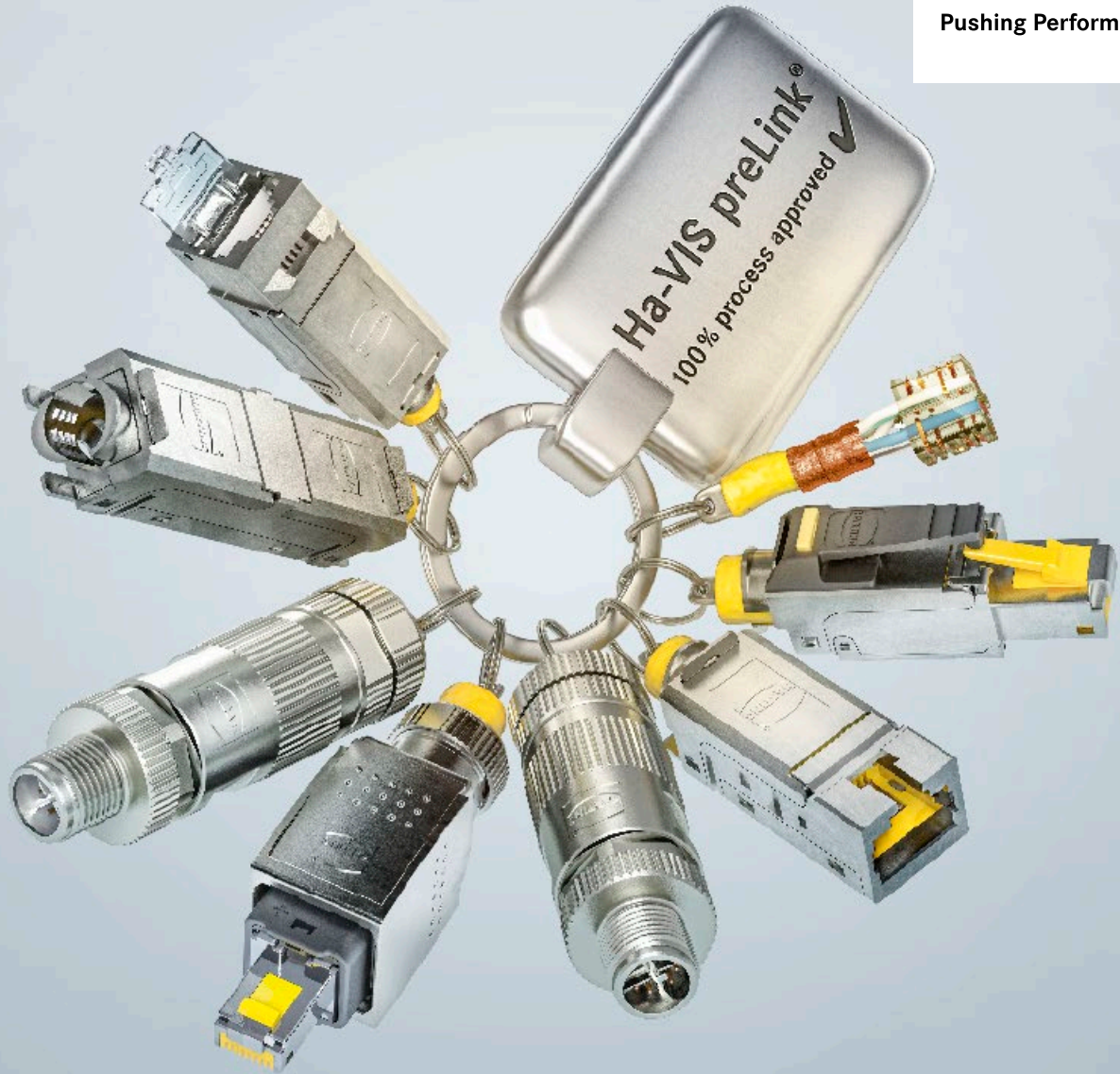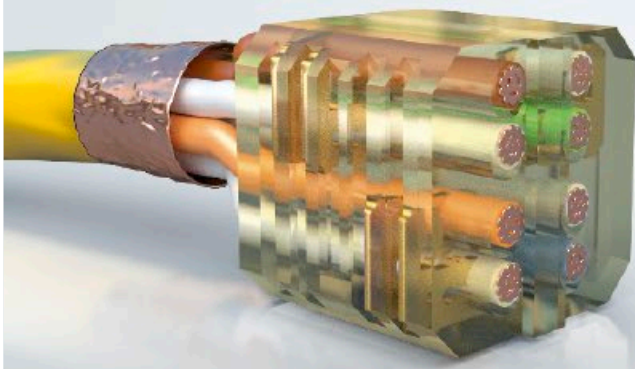People | Power | Partnership

The key technology for Ethernet cabling.
Ha-VIS preLink®

A superior combination of speed and reliability:
the Ha-VIS preLink®

Ha-VIS preLink® now available across the full product range

HARTING's Ha-VIS preLink® is a complete solution for implementing Ethernet cabling. This system solution is a comprehensive product range that offers versatile swappable mating profiles, device interfaces and corresponding junction boxes.

The Ha-VIS preLink® termination block is at the heart of the system: it can be wired with total safety in one step using our preLink® crimping tool. This ensures that your cabling remains versatile and sustainable into the future – with 100% **process reliability**!

The same three simple steps are required for each installation:
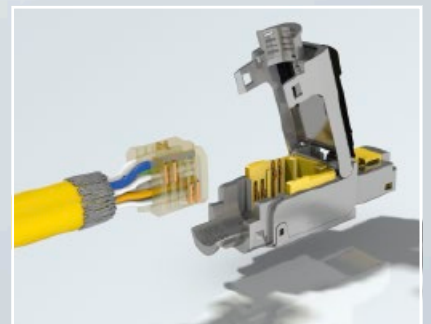
1
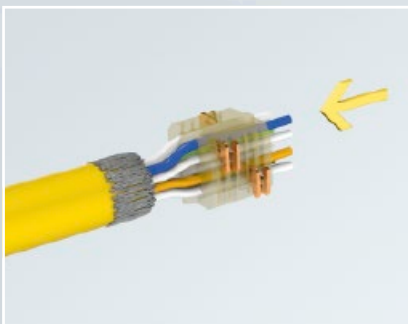
The cable wires are inserted into the Ha-VIS preLink® termination block according to their colour codes.

2

The Ha-VIS preLink® crimping tool ensures that the wires are always assembled precisely and correctly.

3

The wired Ha-VIS preLink® termination block can then easily be snapped onto a variety of different Ha-VIS preLink® mating profiles.

The Ha-VIS preLink®
RJ45 connector
For PROFINET connections

The Han® PushPull V14 preLink®
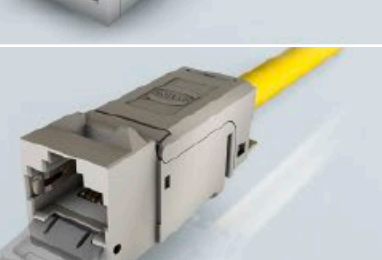**RJ45 connector**
For AIDA interfaces

The Ha-VIS preLink®
M12 D-coded connector
For sensor interfaces

The Ha-VIS preLink®
M12 X-coded connector
For railway applications

The Ha-VIS preLink®
RJ45 jack HIFF-format
For panel feed throughs and
service interfaces

The Ha-VIS preLink®
RJ45 Keystone jack
For electrical cabinet patch panels and outlets

The Ha-VIS preLink® Extender
For cable extensions and
cable transitions: solid-stranded

The Ha-VIS preLink®
An overview of the advantages:

- Swappable mating profiles: for versatile and sustainable Ethernet cabling

- Our Ha-VIS preLink® assembly tool ensures a reliable installation process

- Easy, quick installation in cramped spaces

- Pre-assembled cable segments can be swapped out quickly during maintenance and upgrades

- Comprehensive system-based product portfolio for automation, railway and energy applications

RJ45 connector
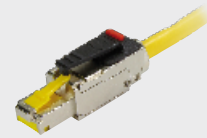
- Robust and compact

- For safe installation – even in difficult situations

- Optimised external dimensions provide exceptional plugging reliability for industrial switches

IP20 CAT. 6ₐ PROFINET

har-port service interfaces

- Attractive service interfaces for initial commissioning and servicing

- Fits into any housing opening with a standardised M22.5 panel cut-out – thanks to our compact HIFF (HARTING industrial form factor) RJ45 jack

IP20 CAT. 6ₐ

DIN rail outlet
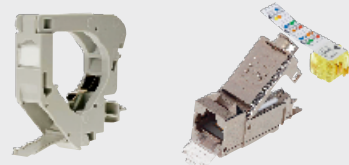
- Easy to install on the DIN rail

- Integrated shield connection to DIN rails in the electrical cabinet

- Small space saving design

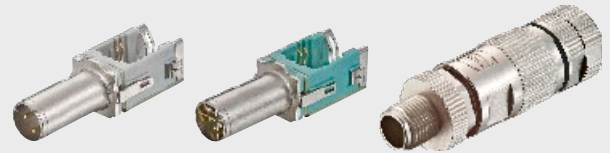- Compatible with standardised Keystone-format

IP20 CAT. 6ₐ
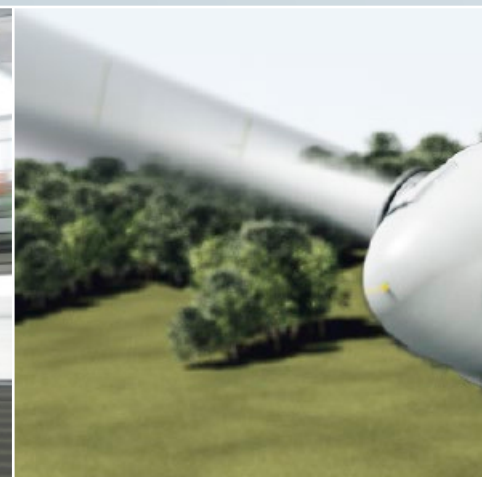
Han® PushPull connector
Electrical cabinet interface and device interface

- ■ Standardised and easy-to-operate PushPull interface

- ■ PROFINET-compliant

- ■ Quick and reliable installation – also for IP65 / IP67 degree of protection

| IP65 IP67 | CAT. 6ₐ | PROFI NET | ⏱ | ⚒ |

M12 connector

- ■ Proven M12 robustness

- ■ PROFINET-compliant

- ■ Quick and reliable installation – also for IP65 / IP67 degree of protection

- ■ Quick upgrades from Fast Ethernet to Gigabit Ethernet are possible – thanks to the uniform housings for 4-pole D-coded and 8-pole X-coded
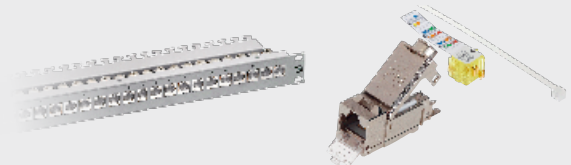
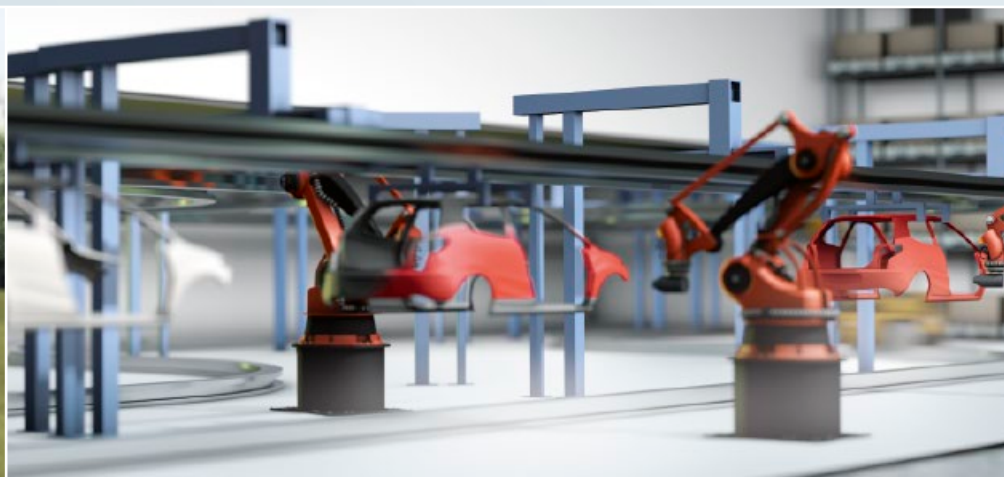| IP65 IP67 | CAT. 5 CAT. 6ₐ | PROFI NET | ⏱ | ⚒ | 🚄 |

Industrial junction boxes

- ■ Robust, indestructible junction boxes for Han® 3 A und PushPull interfaces

- ■ With optimised cable clamp – so that the cable can be conveniently assembled outside the junction box.

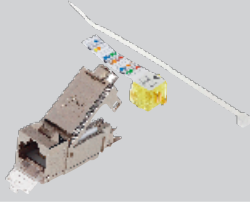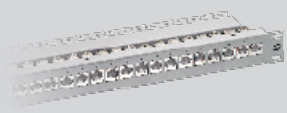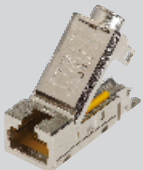- ■ Quick and reliable installation – also for IP65 / IP67 degree of protection

| IP65 IP67 | CAT. 6ₐ | PROFI NET | ⏱ | ⚒ |
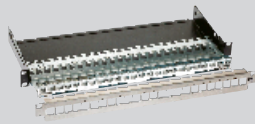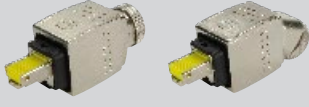
Patch panels and RJ45 jacks

- ■ Industrial 19"-format termination technique

- ■ Compatible to the standardised Keystone-format

- ■ Assembled with 24 Keystone jacks: available as ready-to-use system

| IP20 | CAT. 6ₐ | ⏱ |

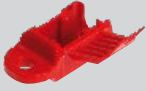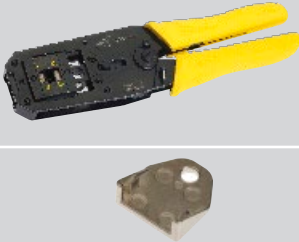|			Advantages	Description	Part number
Components in Keystone-format	**Jacks**		■ Standardised Keystone-format fits for 19" patch panels and outlets ■ Built-in protective cover	preLink® RJ45 jack with Cat. 6, Keystone-format incl. cable termination block AWG 24 – AWG 22	20 82 501 0001
				preLink® RJ45 jack with Cat. 6, Keystone-format (without cable termination block) Angled version (without cable termination block)	20 82 500 0001 20 82 500 0002 (Package quantity: 24 pieces)
	19" patch panel		■ Fits with all Keystone-format jacks ■ Inexpensive because of simple set up ■ Additional strain relief mechanism	19" patch panel, Keystone-format, empty	20 82 400 0002
				19" patch panel, Keystone-format assembled with 24 preLink® jacks for AWG 22 / 23	20 82 405 0001
	DIN rail outlet		■ Fits with all Keystone-format jacks ■ Built-in cover protects against dust ■ Labelling field	DIN rail outlet, single Keystone-format, empty	09 45 851 0000
				Cover plate set (with 2 covers)	09 45 851 0001
HIFF-format components	**Jacks**		■ HIFF-format: for use in Han® 3 A, HARTING PushPull (V4), Han® PushPull (V14) and *har*-port	preLink® RJ45 jack with Cat. 6, HIFF-format incl. cable termination block AWG 24 – AWG 22 AWG 27 – AWG 26	20 82 001 0001 20 82 001 0002
				preLink® RJ45 jack with Cat. 6, HIFF-format without cable termination block	20 82 000 0002
	19" patch panel		■ Fits with HIFF-format jacks ■ Movable jack carrier – helps to save time and money during the assembly process ■ Additional strain relief mechanism	19" patch panel, HIFF-format, empty	20 82 400 0001
	Junction boxes		■ Suitable for surface mount or installation in electrical cabinet	Junction box assembled with 2 preLink® RJ45 HIFF-format jacks, for AWG 22 / 23	20 82 101 0220
				Accessories for mounting on DIN rail	20 80 000 0003
			■ Robust aluminium die cast housing ■ Easy to assemble ■ External attachment and earth connections ■ Degree of protection: IP65 / IP67	Han® 3 A metal outlet, with 2 Han® 3 A RJ45 ports, assembled with 2 preLink® HIFF-format jacks, for AWG 22 / 23	20 82 102 0101
				Han® PushPull (V14) metal outlet, with 2 Han® PushPull RJ45 ports, assembled with 2 preLink® HIFF-format jacks, for AWG 22 / 23	20 82 104 0101
	Device interfaces		■ Fits with HIFF-format jacks ■ Standardised interfaces can be easily implemented in devices as well as electrical cabinets ■ Degree of protection: IP65 / IP67	Han® 3 A bulkhead mounted housing Black plastic Grey plastic	09 20 003 0327 09 20 003 0301
				Han® 3 A HIFF adapter for assembling the HIFF modules	09 45 515 0024
				Han® PushPull (V14) bulkhead mounted housing for HIFF modules Black plastic Rectangular metal Round metal	09 35 012 0331 09 35 012 0311 09 35 012 0312
	Service interfaces		■ Easy to assemble ■ Compact design	*har*-port RJ45 service interface, incl. HIFF coupling	09 45 452 1560
				har-port panel feed through, suitable for holding HIFF modules	09 45 452 0000
			■ Available as standard in lengths from 0.20 m to 10.00 m	*har*-port RJ45 service interface with cable (RJ45 jack to RJ45 plug)	09 45 452 1501 – 09 45 452 1518

			Advantages	Description	Part number
Connector	RJ45		■ Industry-proven	preLink® RJ45 connector	20 82 101 0010
	Han® PushPull		■ Compliant with PROFINET and AIDA ■ Proven PushPull locking mechanism	Han® PushPull (V14) preLink® RJ45 connector Plastic	20 82 204 0001
				Han® PushPull (V14) preLink® RJ45 connector Straight metal 45° angled metal	20 82 104 0001 20 82 104 0045
	Han® 3 A	Available starting in Q 1 / 2015	■ Standardised PROFINET connector	Han® 3 A RJ45 preLink® insert	20 82 002 0001
	M12		■ Extremely robust For industrial and railway usage	preLink® M12 D-coded connector, 4 poles	20 82 005 0001
				preLink® M12 X-coded connector, 8 poles	20 82 005 0002
				preLink® male insert, M12 D-coded, 4 poles	20 82 005 1214
				preLink® male insert, M12 X-coded, 8 poles	20 82 006 1218
				preLink® M12 housing, empty	20 82 000 1210
Accessories	Coupling		■ The simplest cable transition	preLink® Extender Cat. 6A	20 82 101 0001
	Termination blocks		■ The cable termination is easy to assemble and ensures process reliability ■ Can be combined flexibly with all jacks and plugs	preLink® cable termination block (AWG 24 – 22) for installation cable	20 82 000 0001 (Package quantity: 10 pieces)
				preLink® cable termination block (AWG 27 – 26) for flexible cable	20 82 000 0003 (Package quantity: 10 pieces)
			■ Protects pre-assembled preLink® cables during feeding and routing	preLink® protective cover	20 82 000 9915 (Package quantity: 10 pieces)
	Tool		■ Simultaneously crimps all IDC contacts safely while cutting off all individual wires properly ■ The assembly is completed in one step ■ Cycling ratchet mechanism	preLink® assembly tool	20 82 000 9901
			■ For opening all RJ45 jacks quickly and easily	preLink® release tool	20 82 000 9916 (Package quantity: 10 pieces)

The Ha-VIS preLink® in action:
Check out our Youtube clip.

Find out more about the
Ha-VIS preLink® now at

www.HARTING.com/preLink

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