Pushing Performance

HARTING Han® ES Press
Simple Connection with a Click

The connector for rapid multiplication of potentials

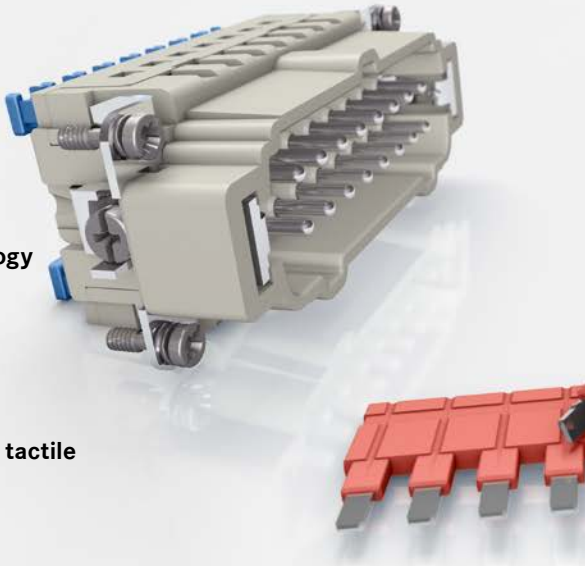
Use its full Potential: **HARTING** Han® ES Press

HARTING has expanded its Han E® series, the international standard, to include a real multi-talent: the Han® ES Press. Its conductor termination technology requires no tools and can be installed in the field, so that, compared with other termination technologies, conductors can be connected with up to 50% less time and effort.

The Han® ES Press plug-in jumpers also enable multiple contacts to be bridged directly at the connector. This terminal block functionality now has a space saving implementation on the connector.

Safe and quick assembly up to 50 % quicker

Rapid termination technology without tools



Audible and tactile snap-in

Easy to bridge contacts for multiplication of potentials

Reliability in a Click:
Han® ES Press **Termination Technology**

The innovative cage-clamp termination used in the Han® ES Press allows conductors to be installed without any tools, in a quick and vibration-resistant manner.

- Press-buttons and plug-in jumpers have an audible and tactile snap-in: for optimal process reliability.
- Conductors can be connected with or without ferrules, with conductor cross-sections from 0.14 mm^2 to 2.5 mm^2.
- No force needed to insert the conductor in the contact chamber (Zero Insertion Force).
- Can be assembled in the field.

Integrated opening for measuring probe

Compatible with Han E®, Han® ES and Han® ESS – the international standards

Technical Characteristics
Han® ES Press Inserts

Inserts / Electrical data acc. to DIN EN 60 664-1 and DIN EN 61 984

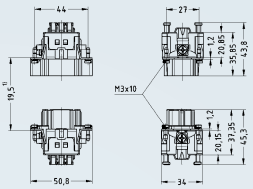
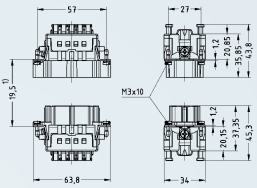
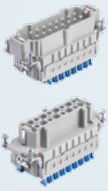
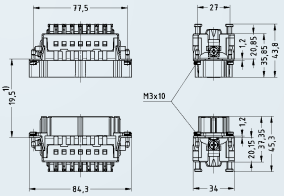
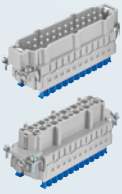
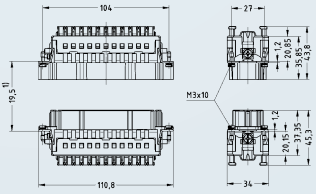
Contacts	6, 10, 16, 24
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mating cycles	≥ 500

Contacts

Material power contacts	copper alloy
Surface	silver plated
Contact resistance	≤ 3.0 mΩ
Cage-clamp termination	0.14 ... 2.5 mm^2
Max. insulation diameter	5.0 mm
Stripping length	9 ... 11 mm

For more information see data sheet:
www.HARTING.com/hanespress

Technical Characteristics
Han® ES Press Inserts

	Identification	Figure	Drawings
Han® 6 ES Press	Male insert (M) Part No.:09 33 006 2648 Female insert (F) Part No.: 09 33 006 2748		
Han® 10 ES Press	Male insert (M) Part No.: 09 33 010 2648 Female insert (F) Part No.: 09 33 010 2748		
Han® 16 ES Press	Male insert 1-16 (M) Part No.: 09 33 016 2648 Male insert 17-32 (M) Part No.: 09 33 016 2688 Female insert 1-16 (F) Part No.: 09 33 016 2748 Female insert 17-32 (F) Part No.: 09 33 016 2788		
Han® 24 ES Press	Male insert 1-24 (M) Part No.: 09 33 024 2648 Male insert 25-48 (M) Part No.: 09 33 024 2688 Female insert 1-24 (F) Part No.: 09 33 024 2748 Female insert 25-48 (F) Part No.: 09 33 024 2788		

For more information see data sheet:
www.HARTING.com/hanespress

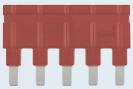
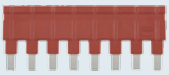
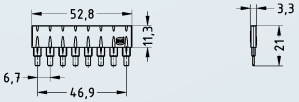
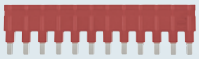
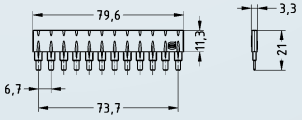
Technical Characteristics
Han® ES Press Plug-in Jumpers

Plug-in jumpers

Contacts	2, 3, 5, 8, 12
Colour jumpers	 RAL 3018 RAL 5012 RAL 5004
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mating cycles	≥ 5 mating cycles
Material insulation	polyamide
Insulation resistance	≥ 10^{10} Ω
Material power contacts	copper alloy
Surface	tin plated
Contact resistance	≤ 1.0 mΩ

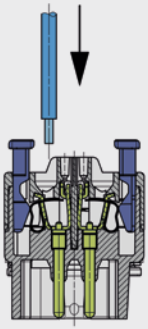
For more information see data sheet:
www.HARTING.com/hanespress

Technical Characteristics
Han® ES Press Plug-in Jumpers

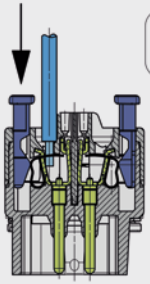
Identificaiton	Figure	Drawings
Plug-in jumper 2 × 1 red Part No.: 09 33 000 9820 Plug-in jumper 2 × 1 blue Part No.: 09 33 000 9821 Plug-in jumper 2 × 1 black Part No.: 09 33 000 9822		
Plug-in jumper 1×2 red Part No.: 09 33 000 9830 Plug-in jumper 1×2 blue Part No.: 09 33 000 9841 Plug-in jumper 1 ×2 black Part No.: 09 33 000 9852		
Plug-in jumper 1 × 3 red Part No.: 09 33 000 9831 Plug-in jumper 1 × 3 blue Part No.: 09 33 000 9842 Plug-in jumper 1 × 3 black Part No.: 09 33 000 9853		
Plug-in jumper 1 × 5 red Part No.: 09 33 000 9833 Plug-in jumper 1 × 5 blue Part No.: 09 33 000 9844 Plug-in jumper 1 × 5 black Part No.: 09 33 000 9855		
Plug-in jumper 1 × 8 red Part No.: 09 33 000 9836 Plug-in jumper 1 × 8 blue Part No.: 09 33 000 9847 Plug-in jumper 1 × 8 black Part No.: 09 33 000 9858		
Plug-in jumper 1 × 12 red Part No.: 09 33 000 9840 Plug-in jumper 1 × 12 blue Part No.: 09 33 000 9851 Plug-in jumper 1 × 12 black Part No.: 09 33 000 9862		

Assembly Instructions
Conductors

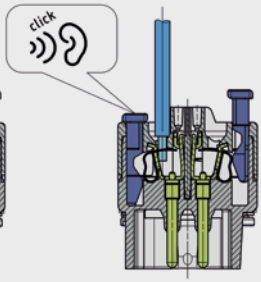
Quick installation: assembly and removal of conductors – with or without ferrules.



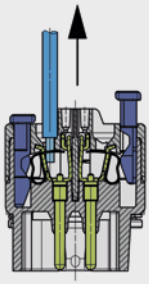
Insert the prepared conductor (with or without ferrule) into the contact chamber, using no extra force.



Press in the actuator using gentle finger pressure.

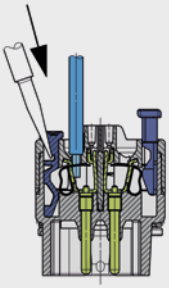


The actuator snaps in with a clearly audible click sound.

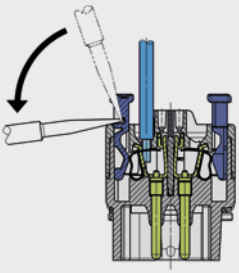


Pull gently on the conductor to ensure that it has been installed securely.

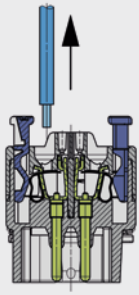
– Before processing further, make sure that all actuators are closed –



A conventional screwdriver (2.5 mm blade width) can be inserted into the actuator diagonally from above.



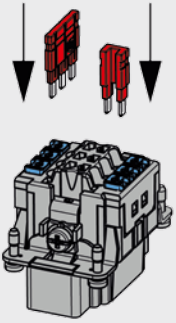
Use a gentle levering motion to lift the actuator out of the contact chamber.



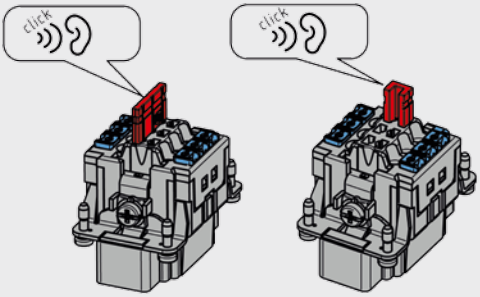
The conductor can be easily pulled out of the unlocked cage-clamp termination.

Assembly Instructions
Plug-in Jumpers

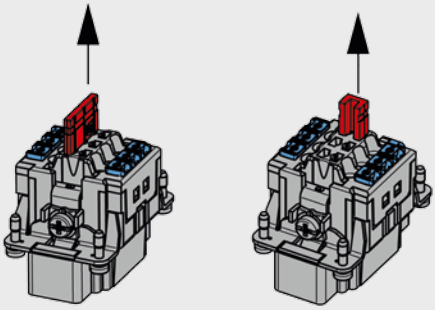
Easy to bridge: assembling the plug-in jumpers.



Gently press the plug-in jumpers into the appropriate jumper openings.



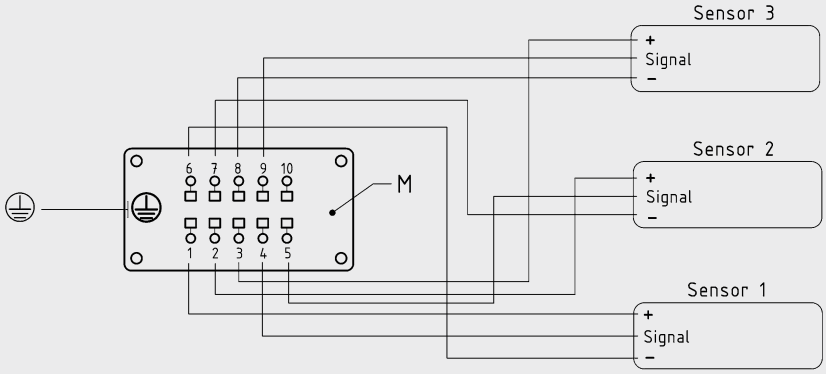
The jumpers snap in with a clearly audible click sound.

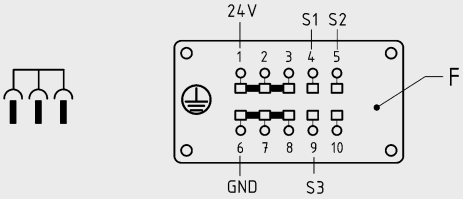


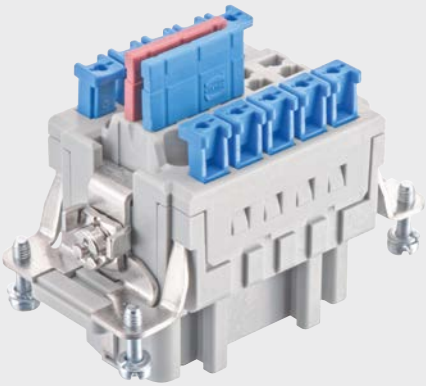
The plug-in jumpers can be removed by hand from the jumper openings. No special tool is required.

A Connection Example
for Multiplication of Potentials

With the Han® ES Press plug-in jumpers, you can quickly and easily bridge contacts directly in the connector.



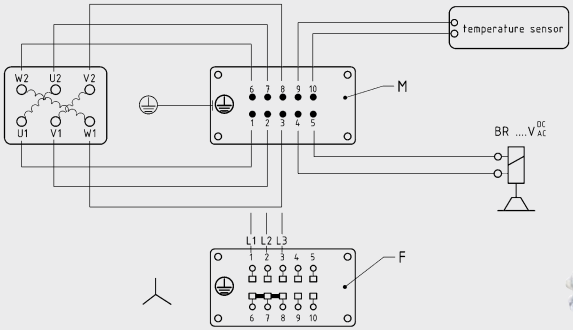


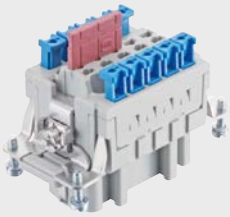


An Application Example
for Motor Connection Circuits

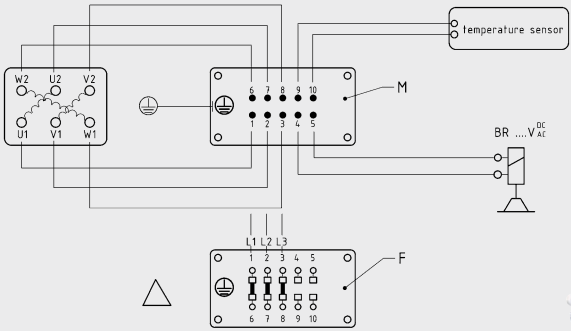
The star and delta connections can be easily implemented using the three-way lengthwise plug-in jumpers and the two-way cross-link plug-in jumpers.

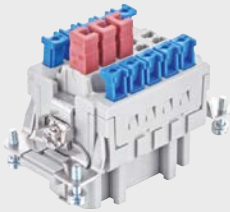
Star connection





Delta connection





Pushing Performance

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