

Description of the Han-Yellock® system

The Han-Yellock® - a special Han® connector

Han-Yellock® is a new product series which retains the core functionality but differs significantly from current size and shape formats. The approach of this series makes many new functions possible, for example:

- ❑ An internal, latched locking mechanism on the hood
- ❑ Multiplies the potentials in the connector with Han-Yellock® modules
- ❑ Usage of Han-Modular® modules with adapter frames
- ❑ Insulators can snap into the front or back walls of the housing
- ❑ Protected Earth contact (PE) in crimp or Quick Lock termination

These new technical features encourage sustained and effective improvements:

When purchasing products –

- ❑ Less article numbers and less inventory,

When planning for the electrical and mechanical layout –

- ❑ Less wiring work within a machine,

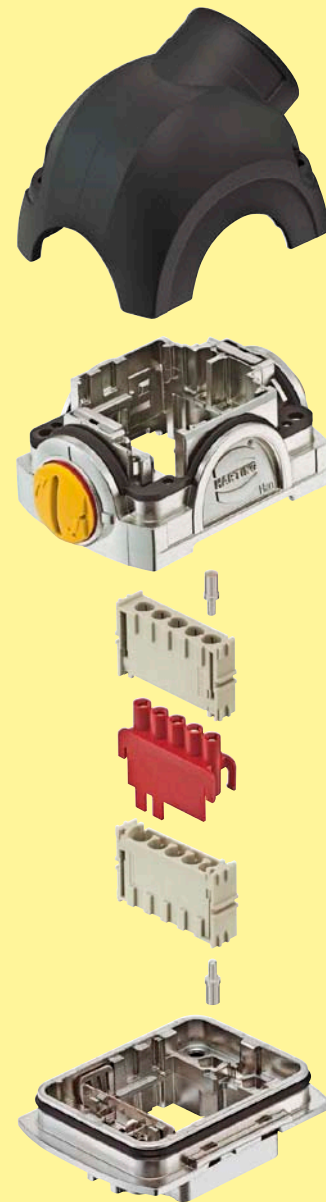
During the work flow –

- ❑ Less steps in the work flow and quicker assembly,

And during the after-sales stage –

- ❑ Reduced down times because of the latched locking mechanism and maintenance-friendly design

Thus, the Han-Yellock® offers improved functionality in the form of increased variability, multiplied potential, simplified handling, reduced incidence of errors and maximized safety.



Assembly details

Design overview

The Han-Yellock® interface consists of a housing, bulkhead mounting, on the housing side and a carrier hood with cover on the cable side.

Han-Yellock® offers the following features when assembling components:

- ❑ Han-Yellock® modules require only male crimp contacts.
- ❑ The PE is contacted on the housing; it can be connected with crimp and/or Quick Lock contacts.
- ❑ The Han-Yellock® hoods/housing are not plug-compatible with all other Han® hood/housing series.

The Han-Yellock® system can be used with a variety of insulators and contact inserts in order to establish an interface.

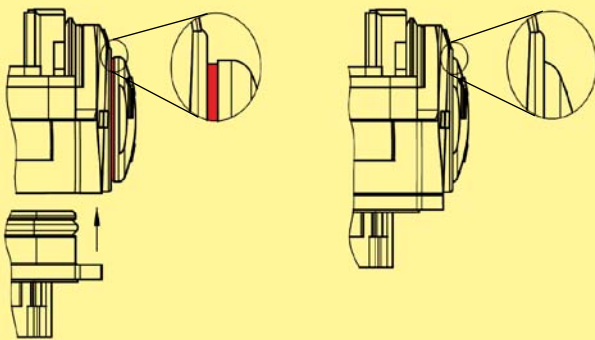
The Locking

The locking ability is a key function of the Han-Yellock®. The function makes connections and disconnections safe, simple and quick – even under harsh industrial conditions.

Main advantages include:

- ❑ Easy handling
- ❑ Resistance to vibrations and shock
- ❑ Protected against accidental opening
- ❑ Compact, space-saving design

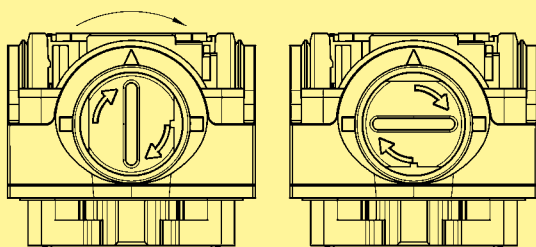
Han-Yellock® features a patented internal locking mechanism. The locking takes place as the cable and device sides are simply joined together. A red ring around the perimeter of the push button will be visible if the housing halves do not snap together properly. This ring disappears as soon as the internally protected stainless steel springs snap into place.



unlocked

locked

This press-button locking also features an integrated blocking function. The locking mechanism can be locked by rotating the button 90°. It is then no longer possible to open the connector.



„open“

„blocked“

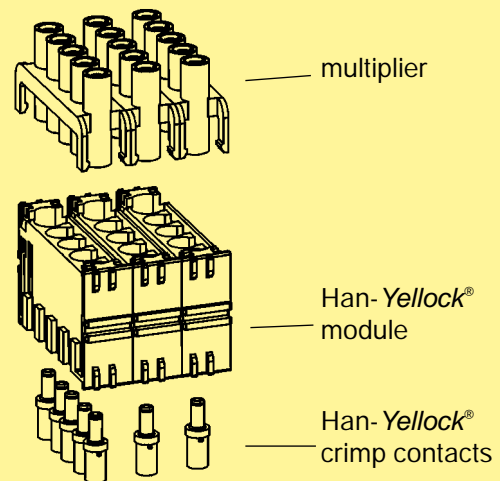
The press button can be set back to its visually open position only after the button is turned back 90°. It is then possible to release the two housing halves by pressing the snap-in button.

This feature provides an elegant mechanism for preventing an accidental opening of the connector – and no additional components are needed for it.

Han-Yellock® modules

This new product series enables an improved approach and strategy for electrical planning and procurement.

For assembling the Han-Yellock® connector only male crimp contacts are needed. The conduct between the two male contacts is made by multipliers.



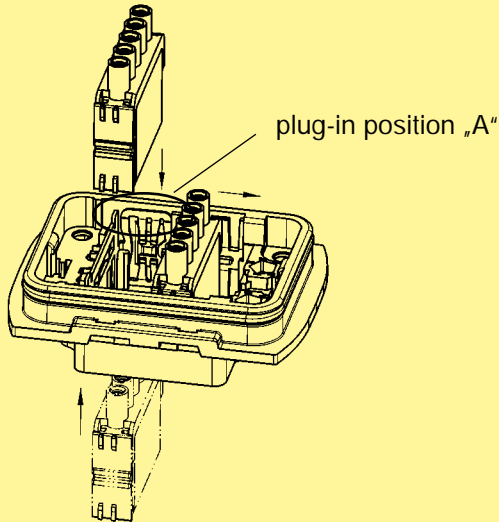
This concept allows a 1:1 wire to wire arrangement and in addition the use of bridges. Two to five contacts can be arranged.

It does not matter if the bridge attachment is inserted on the cable side or the housing side of the connector.

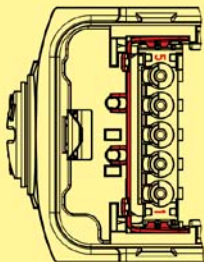
In the past, terminals blocks have been responsible for the function of multiplying potentials. But now this function has been integrated into the connector for a quick, compact and easy-to-service solution.

Inserting the module into the hoods/housing

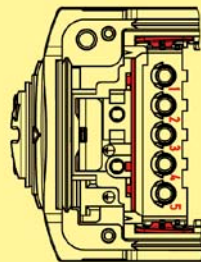
- ❑ The Han-Yellock® module should only be inserted into the „A“ plug-in position in the metal clamp.



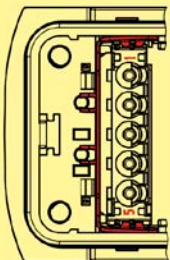
- ❑ The illustration shows the orientation of the module (see arrangement of contacts 1 ... 5).



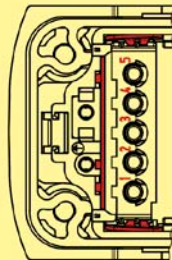
Carrier hood, mating side



Carrier hood, connection side



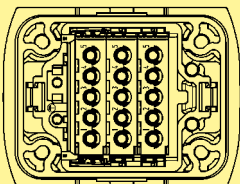
Housing, bulkhead mounting, mating side



Housing, bulkhead mounting, connection side

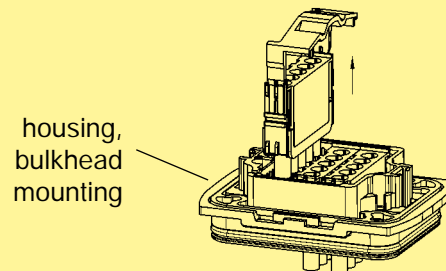
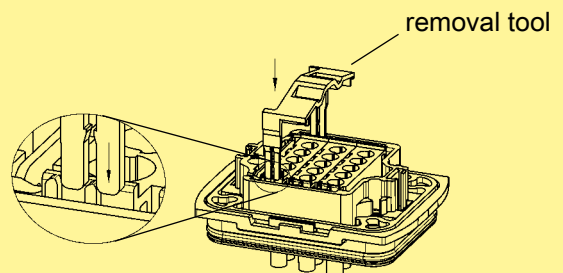
- ❑ A distinct click can be heard when the module snaps into position. It is then pushed along the rail to its final position.

The plug-in slots must always be completely filled.

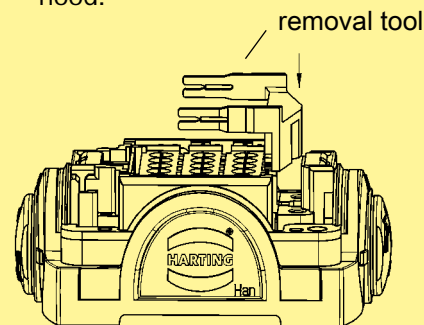


Disassembling the Han-Yellock® module

- ❑ The removal tool (part no. 11 99 000 0001) is required to take out the module.
- ❑ The following illustration shows how to insert the removal tool into the metal clamp. The tool should then be pressed down until it reaches the end stop.
- ❑ The tool is then pulled back and the module comes out of the housing.
- ❑ The removal can be made from the connection side as well as from the mating side.



- ❑ The process is identical for both housings, bulkhead mounting, and carrier hoods.
- ❑ The removal tool can be stored on the carrier hood:



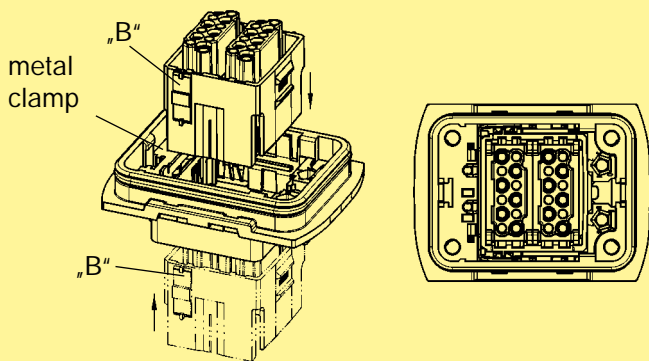
carrier hood

Han-Yellock® adapter frame

Han-Modular® series interfaces can be established using the Han-Yellock® adapter frame. The connection is based on a male/female contact arrangement.

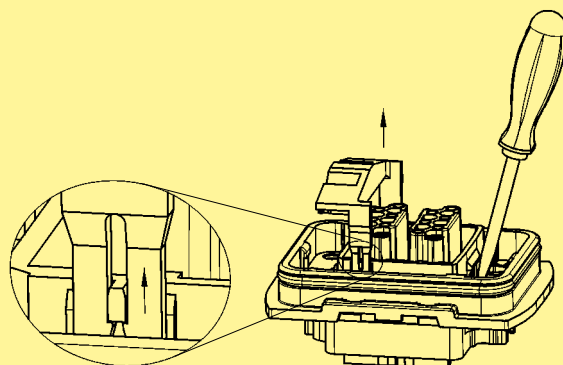
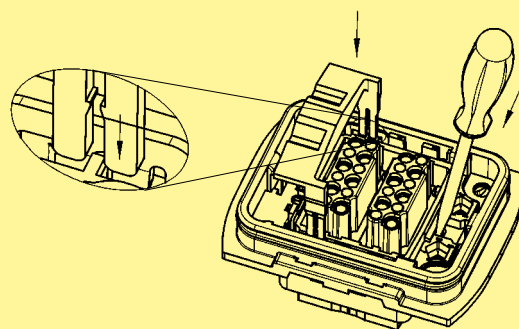
Inserting the adapter frame in the housing:

- ❑ The adapter frame can be snapped into the housing, bulkhead mounting, on the termination side and the mating side (refer to the illustration).
- ❑ The lateral plastic tabs („B“) are pressed into the metal clamps on the housing.
- ❑ The adapter frame then snaps in with a distinctly audible click.



Removal the adapter frame:

- ❑ The removal tool part no. 11 99 000 0001 is required for disassembly.
- ❑ The removal tool is inserted into the metal clamp and pressed down as shown in the following illustration. A screwdriver need also be placed into the notch in the housing.
- ❑ The removal tool should then be pulled outwards to remove the adapter frame from the housing.
- ❑ The removal can be made from the termination side as well as from the mating side.
- ❑ The process is identical for both housings, bulkhead mounting, and carrier hoods.



Han-Yellock® Protection covers

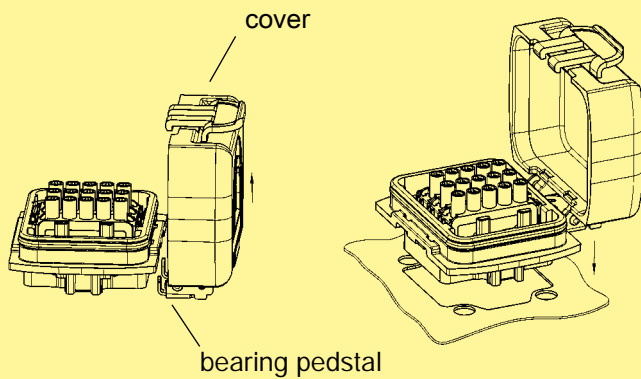
Protection cover function

To protect the insert against dust and water it is possible to use a Han-Yellock® protection cover.

The protection cover comes with a metal bearing pedestal and can be installed during initial or retrofit installation.

The Han-Yellock® design offer the possibility to snap in the pedestal either on the left or on the right side of the housing.

The direction of the cover movement can flip without turning the housing and inserts.



Han-Yellock® Ground terminal

Ground terminal assembly

On the housing side ground terminals can be used.

After placing the frame deeply inside the housing slots the housing will be fixed to the panel leading to solid mounting of the complete set.

