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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 –

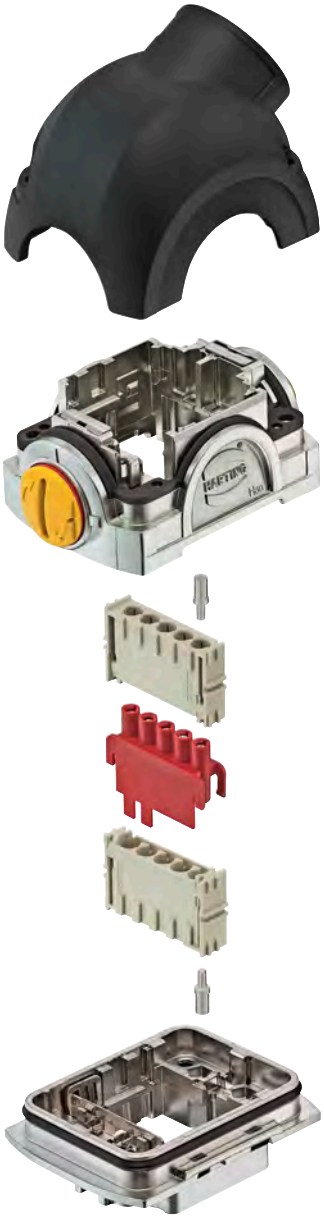
- Less wiring work within a machine,

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



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.

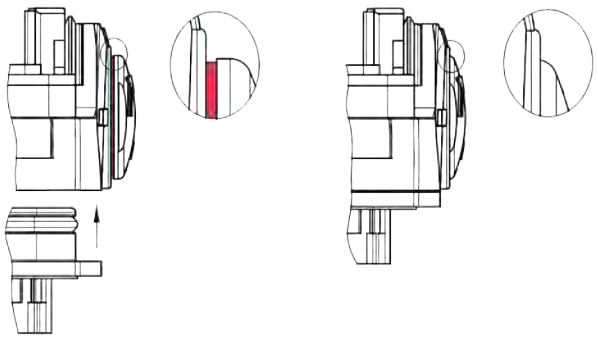
The Locking

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

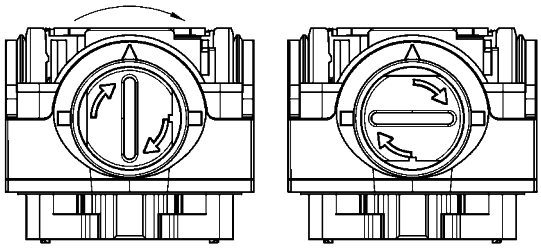
Han-*Yellock*® features a patented internal locking mechanism. The locking takes place as the cable and device sides are simply joined together. A red ring around the perimeter of the push button will be visible if the housing halves do not snap together properly. This ring disappears as soon as the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



① ②

① unlocked
② 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"

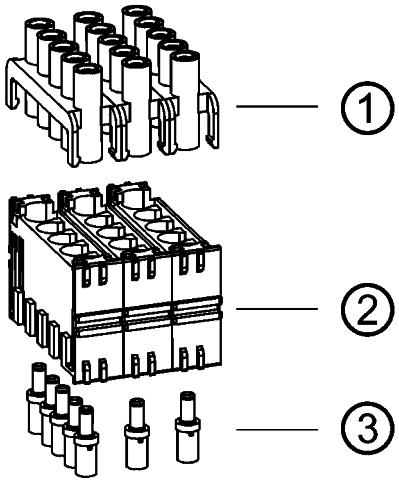
The press button can be set back to its visually open position only after the button is turned back 90°. It is then possible to release the two housing halves by pressing the snap-in button.

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.



① multiplier
② Han-*Yellock*® module
③ Han-*Yellock*® crimp contacts

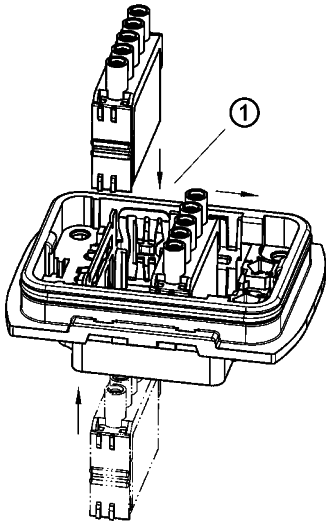
This concept allows a 1:1 wire to wire arrangement and in additon the use of bridges. Two to five contacts can be arranged.

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.

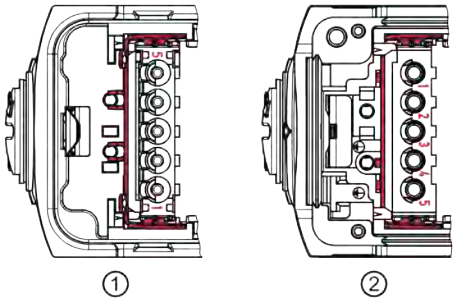
Inserting the module into the hoods/housing

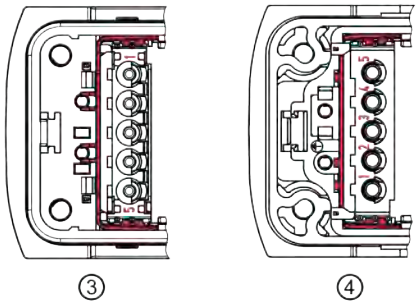
- The Han-*Yellock*® module should only be inserted into the „A“ plug-in position in the metal clamp.



① plug-in position „A“

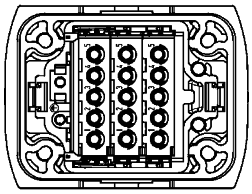
- The illustration shows the orientation of the module (see arrangement of contacts 1 ... 5).





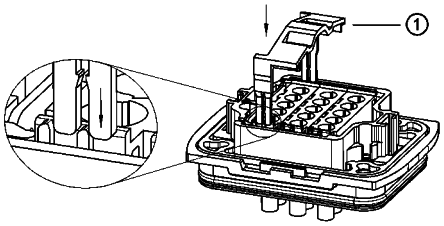
① Carrier hood, mating side
② Carrier hood, connection side
③ Housing, bulkhead mounting, mating side
④ Housing, bulkhead mounting, connection side

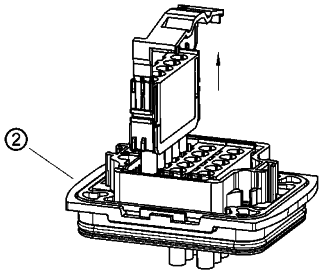
- A distinct click can be heard when the module snaps into position. It is then pushed along the rail to its final position. The plug-in slots must always be completely filled.



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.

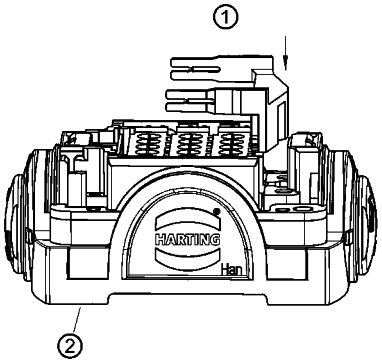




① removal tool
② housing, bulkhead mounting

The process is identical for both housings, bulkhead mounting, and carrier hoods.

The removal tool can be stored on the carrier hood:



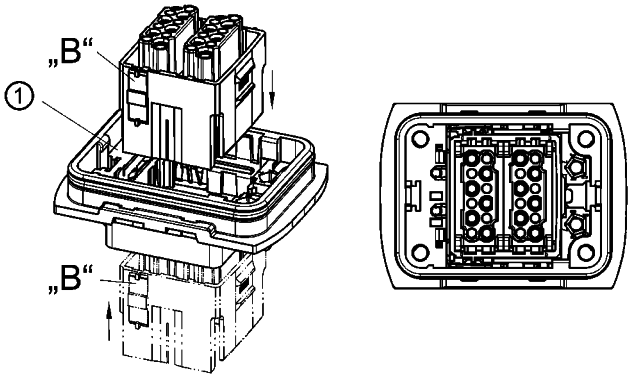
① removal tool
② carrier hood

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:

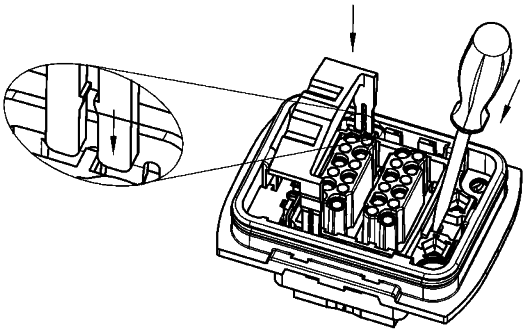
- The adapter frame can be snapped into the housing, bulkhead mounting, on the termination side and the mating side (refer to the illustration).
- The lateral plastic tabs („B“) are pressed into the metal clamps on the housing.
- The adapter frame then snaps in with a distinctly audible click.

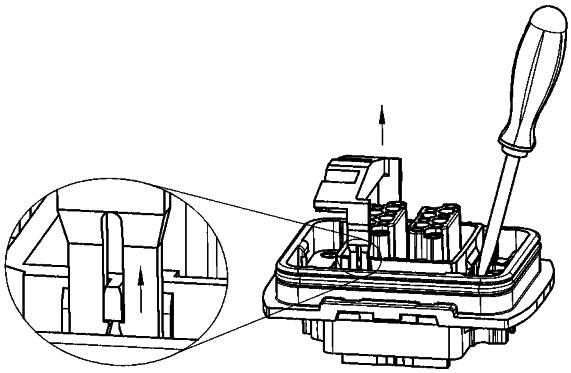


① metal clamp

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

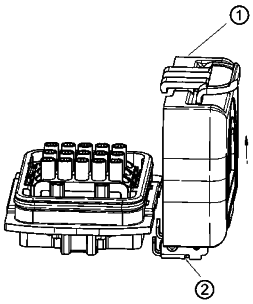
Protection cover function

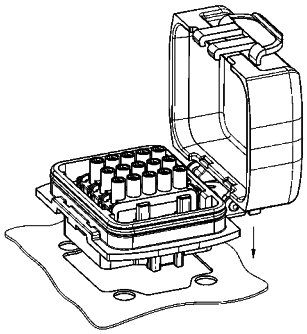
To protect the insert against dust and water it is possible to use a Han-*Yellock*® protection cover.

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.





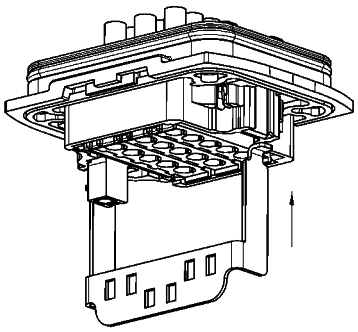
① cover
② bearing pedestal

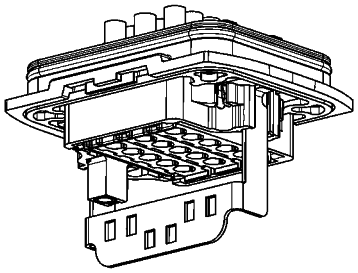
Han-*Yellock*® Ground terminal

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.





Inserts for: Han-*Yellock*® 10

Series	Han® 3 A	Han® 3 A Quick Lock	Han® 3 A Quick Lock	Han® 4 A
Number of contacts	3 + ⏚	3 + ⏚	3 + ⏚	4 + ⏚
Termination	Screw terminal	Quick Lock termination	Quick Lock termination	Screw terminal
				
Rated current	10 A	10 A	10 A	10 A
Rated voltage	230 / 400 V	230 / 400 V	230 / 400 V	230 / 400 V
Wire gauge	1 ... 2.5 mm²	0.5 ... 2.5 mm²	0.25 ... 1.5 mm²	1 ... 2.5 mm²
Male insert (M)	09 20 003 2611	09 20 003 2633	09 20 003 2634	09 20 004 2611
Female insert (F)	09 20 003 2711	09 20 003 2733	09 20 003 2734	09 20 004 2711

Series	Han® 4 A Quick Lock	Han® 4 A Quick Lock	Han® 8 D	Han® 8 D Quick Lock
Number of contacts	4 + ⏚	4 + ⏚	8	8
Termination	Quick Lock termination	Quick Lock termination	Crimp terminal	Quick Lock termination
				
Rated current	10 A	10 A	10 A	10 A
Rated voltage	230 / 400 V	230 / 400 V	~ 50 V / – 120 V	~ 50 V / – 120 V
Wire gauge	0.5 ... 2.5 mm²	0.25 ... 1.5 mm²	0.14 ... 2.5 mm²	0.25 ... 1.5 mm²
Male insert (M)	09 20 004 2633	09 20 004 2634	09 36 008 3001	09 36 008 2632
Female insert (F)	09 20 004 2733	09 20 004 2734	09 36 008 3101	09 36 008 2732

Series	Han® Q 2/0	Han® Q 2/0	Han® Q 2/0	Han® Q 2/0
Number of contacts	2 + ⏚	2 + ⏚	2 + ⏚	2 + ⏚
Termination	Axial screw terminal	Axial screw terminal	Crimp terminal	Axial screw terminal
				
Rated current	40 A	40 A	40 A	40 A
Rated voltage	400 V	400 V	400 V	830 V
Wire gauge	2.5 ... 6 mm²	4 ... 10 mm²	1.5 ... 10 mm²	2.5 ... 6 mm²
Male insert (M)	09 12 002 2653	09 12 002 2651	09 12 002 3051	09 12 002 2654
Female insert (F)	09 12 002 2753	09 12 002 2751	09 12 002 3151	09 12 002 2754

Inserts for: Han-*Yellock*® 10

Series	Han® Q 2/0	Han® Q 2/0	Han® Q 3/0	Han® Q 5/0
Number of contacts	2 + ⏚	2 + ⏚	3 + ⏚	5 + ⏚
Termination	Axial screw terminal 	Crimp terminal 	Crimp terminal	Crimp terminal 
Rated current Rated voltage Wire gauge	40 A 830 V 4 ... 10 mm²	40 A 830 V 1.5 ... 10 mm²	40 A 400 V 1.5 ... 10 mm²	16 A 230 / 400 V 0.14 ... 2.5 mm²
Male insert (M)	09 12 002 2652	09 12 002 3052	09 12 003 3051	09 12 005 3001
Female insert (F)	09 12 002 2752	09 12 002 3152	09 12 003 3151	09 12 005 3101

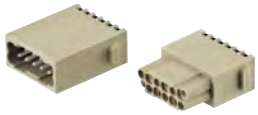
Series	Han® Q 5/0 Quick Lock	Han® Q 7/0	Han® Q 12/0	
Number of contacts	5 + ⏚	7 + ⏚	12 + ⏚	
Termination	Quick Lock termination 	Crimp terminal 	Crimp termination/ Quick Lock termination 	
Rated current Rated voltage Wire gauge	16 A 230 / 400 V 0.5 ... 2.5 mm²	10 A 400 V 0.14 ... 2.5 mm²	10 A 400 V 0.14 ... 2.5 mm²	
Male insert (M)	09 12 005 2633	09 12 007 3001	09 12 012 3001	
Female insert (F)	09 12 005 2733	09 12 007 3101	09 12 012 3101	

Series	Han-Brid® RJ45 C	Han-Brid® RJ45 C	Han-Brid® RJ45 C	Han-Brid® RJ45 C
Number of contacts	2 / 8	2 / 8	2 / 8	2 / 8
Termination	Crimp terminal / RJ45 	Crimp terminal / RJ45 	Crimp terminal / RJ45 	Crimp terminal / RJ45 
Rated current Rated voltage Wire gauge	10 A 24 V 0.14 ... 2.5 mm²	10 A 24 V 0.14 ... 2.5 mm²	10 A 24 V 0.14 ... 2.5 mm²	10 A 24 V 0.14 ... 2.5 mm²
Male insert (M)	09 12 003 3021	09 12 003 3031		
Female insert (F)			09 12 003 2774	09 12 003 2776

Inserts for: Adapter frames

Series	Han® CC Protected module	Han® CD module	Han E® module	Han® E Quick Lock module
Number of contacts	4	3	6	6
Modules	Crimp terminal	Crimp terminal	Crimp terminal	Quick Lock termination
				
Rated current	40 A	40 A	16 A	16 A
Rated voltage	830 V	830 V	500 V	500 V
Wire gauge	1.5 ... 6 mm²	1.5 ... 6 mm²	0.14 ... 4 mm²	0.5 ... 2.5 mm²

Series	Han® EE module	Han® EE Quick Lock module	Han E® Protected module	Han® EEE module
Number of contacts	8	8	6	20
Modules	Crimp terminal	Quick Lock termination	Crimp terminal	Crimp terminal
				
Rated current	16 A	16 A	16 A	16 A
Rated voltage	400 V	400 V	830 V	500 V
Wire gauge	0.14 ... 4 mm²	0.5 ... 2.5 mm²	0.14 ... 4 mm²	0.14 ... 4 mm²

Series	Han® ES module	Han DD® module	Han DD® Quick Lock module	Han® DDD module
Number of contacts	5	12	12	17
Modules	Cage-clamp terminal	Crimp terminal	Quick Lock termination	Crimp terminal
				
Rated current	16 A	10 A	10 A	10 A
Rated voltage	400 V	250 V	250 V	160 V
Wire gauge	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²	0.25 ... 1.5 mm²	0.14 ... 2.5 mm²

Series	Han® High Density module	Han® D-Sub module		
Number of contacts	25	9		
Modules	Crimp terminal	Crimp terminal		
				
Rated current	4 A	5 A		
Rated voltage	50 V	50 V		
Wire gauge	0.08 ... 0.52 mm²	0.08 ... 0.52 mm²		

for more technical details see chapter 06

Inserts for: Adapter frames

Series	Han® USB module	Han® GigaBit module		
Number of contacts	4	8		
Modules	USB 2.0 	Ethernet Cat. 6 		

Series	Han-Quintax® module				Han® Multi module
Number of contacts	2				
Modules					
Contacts	Han-Quintax® contact 4 + shielding 	High Density Quintax contact 8 + shielding 	Han D® Coax contact 75 Ω 1 + shielding  75 Ω	Han E® Coax contact 50 Ω 1 + shielding  50 Ω	Coaxial contact  50 Ω RG 174 75 Ω RG 179 50 Ω RG 58

for more technical details see chapter 06

Features

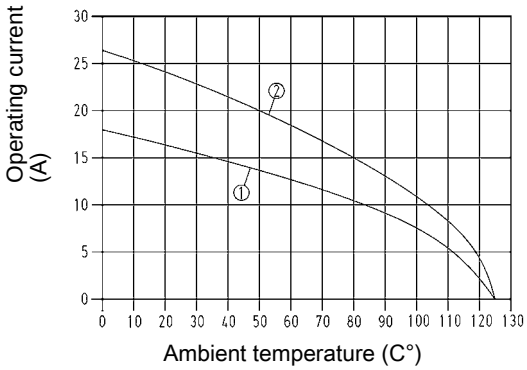
- Snap-in assembly from mating side and from termination side
- Bus bar within bridge attachements
- Finger safe design
- Fast and tool-less assembly
- Mating compatible to the crimp version

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



① Wire cross section 1.5 mm²
② Wire cross section 2.5 mm²
for connector with 3 Han-*Yellock*® modules, fully loaded (multiplier 1:1)

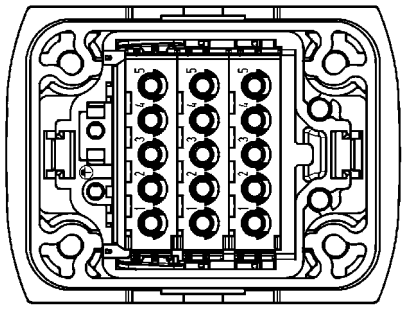
Technical characteristics

Contacts	5
Electrical data acc. to IEC 61984	**blue slide** **20 A 500 V 6 kV 3** **black slide** **10 A 500 V 6 kV 3**
Rated current	20 A, 10 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Insulation resistance	≥10^{10} Ohm
Limiting temperatures	-40 °C ... 125 °C
Flammability (insert) acc. to UL 94	V 0
Mating cycles	≥500
Material (insert)	polycarbonate
Colour (insert)	RAL 7032 (light grey)
Material (contact)	copper alloy

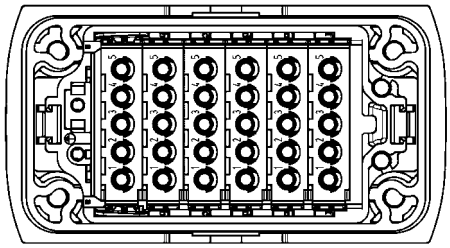
Specifications and approvals

IEC 60664-1
IEC 61984

Details



Placement for Han-*Yellock*® 30 with 3 Han-*Yellock*® modules



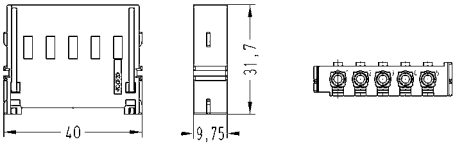
Placement for Han-*Yellock*® 60 with 6 Han-*Yellock*® modules

Quick Lock module

Number of contacts

5

500 V
20 A

Identification	Wire cross section (mm²)	Part number	Drawing Dimensions in mm
Han-Quick Lock® Han-*Yellock*®, Han-Quick Lock® termination, blue slide, silver plated contacts, contact resistance ≤2 mOhm 	0.5 – 2.5	11 05 105 2633	 Stripping length 10 mm
Han-Quick Lock® Han-*Yellock*®, Han-Quick Lock® termination, black slide, silver plated contacts, contact resistance ≤2 mOhm 	0.25 – 1.5	11 05 105 2634	

Features

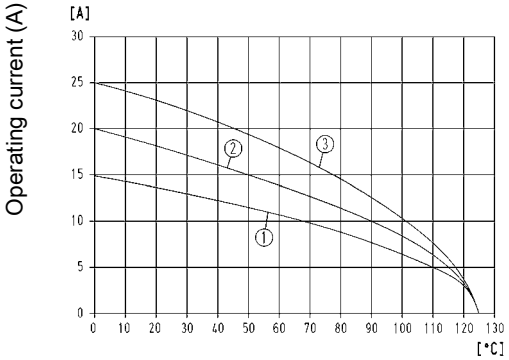
- Snap-in assembly from mating side and from termination side
- Wiring with male contacts only
- Bus bar within bridge attachements
- Finger safe design
- Fast and tool-less assembly

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



Ambient temperature (C°)

① Wire cross section 1.5 mm²
② Wire cross section 2.5 mm²
③ Wire cross section 4 mm²
for connector with 3 Han-*Yellock*® modules, fully loaded (multiplier 1:1)

Technical characteristics

Contacts	5
Electrical data acc. to IEC 61984	**20 A 500 V 6 kV 3**
Rated current	20 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Insulation resistance	$<10^{10}$ Ohm
Limiting temperatures	-40 °C ... 125 °C
Flammability (insert) acc. to UL 94	V 0
Mating cycles	<500
Material (insert)	PC, polycarbonate
Colour (insert)	RAL 7032 (light grey), RAL 5015 (blue), RAL 3000 (red)
Material (contact)	copper alloy

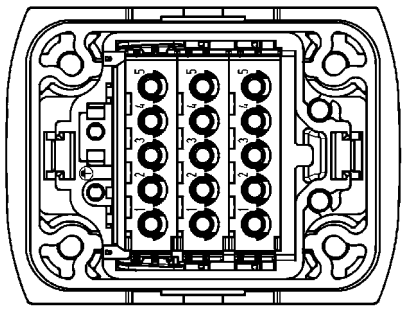
Specifications and approvals

IEC 60664-1
IEC 61984

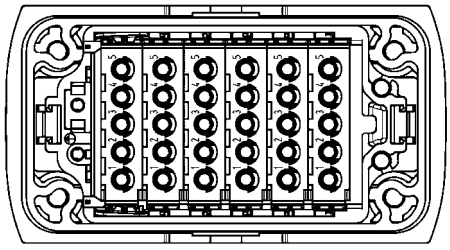
Details

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.



Placement for Han-*Yellock*® 30 with 3 Han-*Yellock*® modules



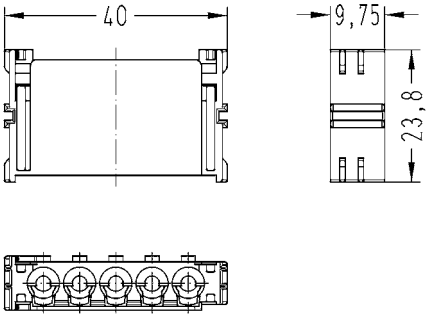
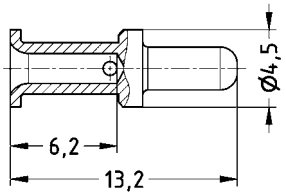
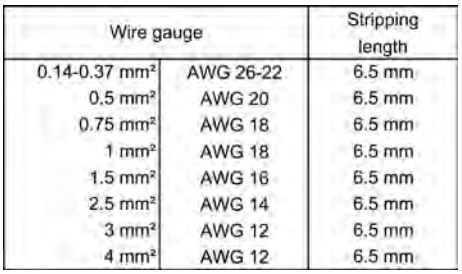
Placement for Han-*Yellock*® 60 with 6 Han-*Yellock*® modules

Crimp module

Number of contacts

5

500 V
20 A

Identification	Wire cross section (mm²)	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Crimp terminal, silver plated contacts, contact resistance ≤2 mOhm 		11 05 105 3001 11 05 105 3011 11 05 105 3012	 11 05 105 3001 grey 11 05 105 3011 blue 11 05 105 3012 red
Han-*Yellock*®, Crimp contact, gold plated contacts, contact resistance ≤2 mOhm 	0.14 – 0.37 0.5 0.75 1 1.5 2.5 3 4	11 05 000 6121 11 05 000 6122 11 05 000 6123 11 05 000 6124 11 05 000 6125 11 05 000 6126 11 05 000 6127 11 05 000 6128	
Han-*Yellock*®, Crimp contact, silver plated contacts, contact resistance ≤2 mOhm 	0.14 – 0.37 0.5 0.75 1 1.5 2.5 3 4	11 05 000 6101 11 05 000 6102 11 05 000 6103 11 05 000 6104 11 05 000 6105 11 05 000 6106 11 05 000 6107 11 05 000 6108	 Removal tool 09 99 000 0319 see chapter 90

Multiplier

Features

- Snap-in assembly from mating side and from termination side
- Bus bar within bridge attachements
- Visible bridge position from mating side and from termination side
- Fast and easy exchange

Technical characteristics

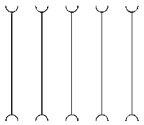
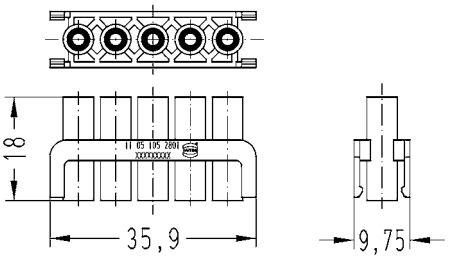
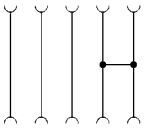
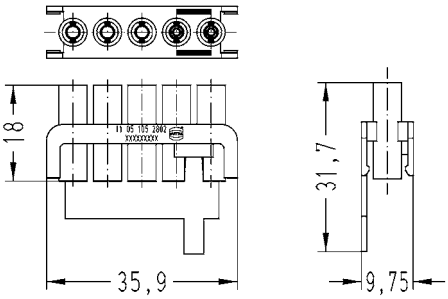
Contacts	5
Flammability (insert) acc. to UL 94	V 0
Mating cycles	≥500
Material (insert)	polycarbonate
Colour (insert)	RAL 7032 (light grey), RAL 3000 (red), RAL 5015 (blue)

Specifications and approvals

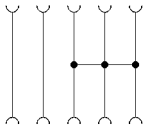
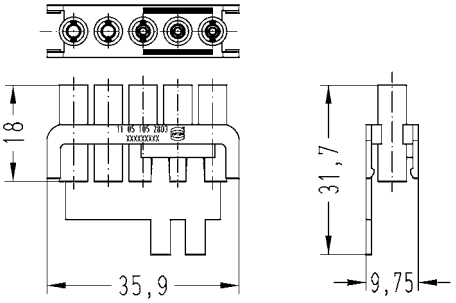
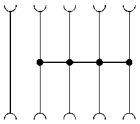
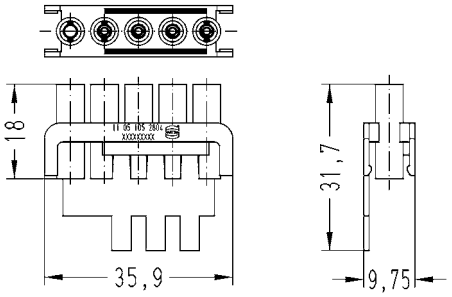
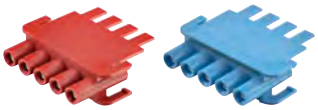
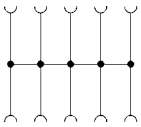
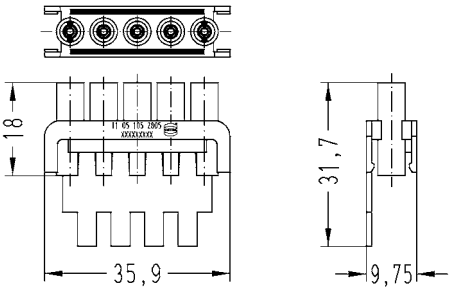
IEC 60664-1
IEC 61984

Number of contacts

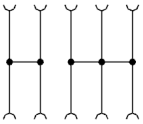
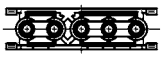
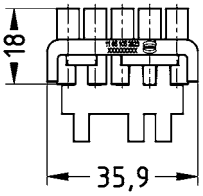
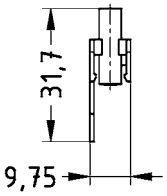
5

Identification	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Multiplier, 1:1 	11 05 105 2801	Circuit diagram  0 bridged contacts 5 unbridged contacts 
Han-*Yellock*®, Multiplier, 2:3 	11 05 105 2802	Circuit diagram  2 bridged contacts 3 unbridged contacts 

Multiplier

Identification	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Multiplier, 3:2 	11 05 105 2803	Circuit diagram  3 bridged contacts 2 unbridged contacts 
Han-*Yellock*®, Multiplier, 4:1 	11 05 105 2804	Circuit diagram  4 bridged contacts 1 unbridged contacts 
Han-*Yellock*®, Multiplier, 5:0 	11 05 105 2805 11 05 105 2815	Circuit diagram  5 bridged contacts 0 unbridged contacts  11 05 105 2805 red 11 05 105 2815 blue

Multiplier

Identification	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Multiplier, 2;3:0 	11 05 105 2823	Circuit diagram  2 bridged contacts 3 bridged contacts   

Features

- Suitable for Han-Modular® modules
- Fast and tool-less assembly
- Snap-in assembly from mating side and from termination side
- Removal from mating side and from termination side possible

Technical characteristics

Flammability (insert) acc. to UL 94	V 0
Material (insert)	PC
Colour (insert)	RAL 7032 (light grey)

Specifications and approvals

IEC 60664-1
IEC 61984
GL

Details

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.

① metal clamp

Removal of the adapter frame:

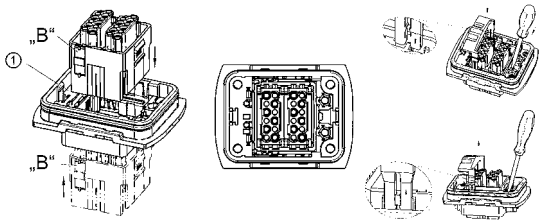
The removal tool part no. 11 99 000 0001 is required for disassembly. (see chapter 90)

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.

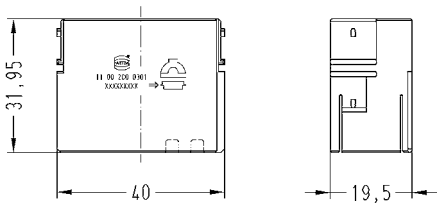
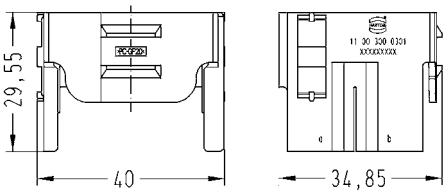
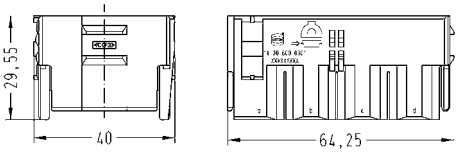
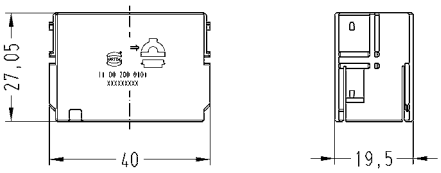
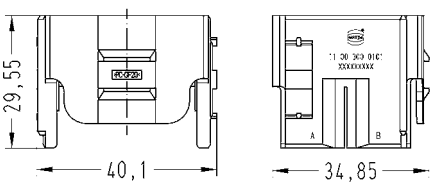
The removal tool should then be pulled outwards to remove the adapter frame from the housing.

The removal can be made from the termination side as well as from the mating side.

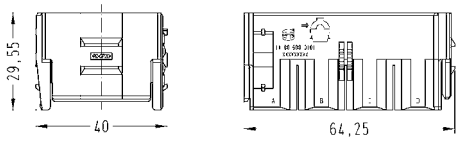
The process is identical for both housings, bulkhead mounting, and carrier hoods.



Adapter frames

Identification	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Adapter frames, for Han-*Yellock*® 30 +60, for housings bulkhead mounting  Mounting/removal from termination side only!	11 00 200 0301	
Han-*Yellock*®, Adapter frames, for Han-*Yellock*® 30, for housings bulkhead mounting 	11 00 300 0301	
Han-*Yellock*®, Adapter frames, for Han-*Yellock*® 60, for housings bulkhead mounting 	11 00 600 0301	
Han-*Yellock*®, Adapter frames, for Han-*Yellock*® 30 +60, for carrier hoods  Mounting/removal from termination side only!	11 00 200 0101	
Han-*Yellock*®, Adapter frames, for Han-*Yellock*® 30, for carrier hoods 	11 00 300 0101	

Adapter frames

Identification	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Adapter frames, for Han-*Yellock*® 60, for carrier hoods 	11 00 600 0101	

Combinations	Han-Yellock® Hood/Housing				
	30	30	60	60	60
Han-Yellock® 20 Adapter frame (for Han-Yellock® 30 und 60)	1		2	1	
Han-Yellock® 30 Adapter frame		1			
Han-Yellock® 60 Adapter frame					1
Han-Yellock® Module	1		2	4	

Features

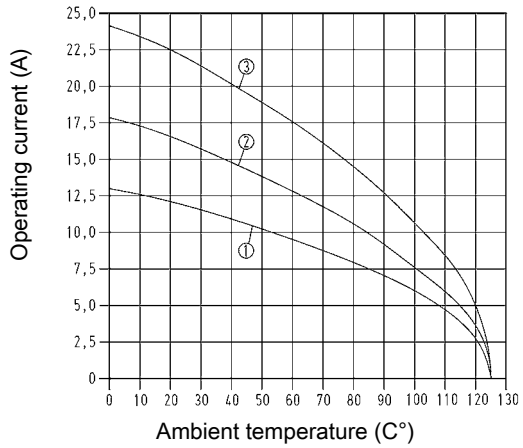
- Snap-in assembly from mating side and from termination side
- Finger safe design
- Fast and tool-less assembly

Derating

Current carrying capacity

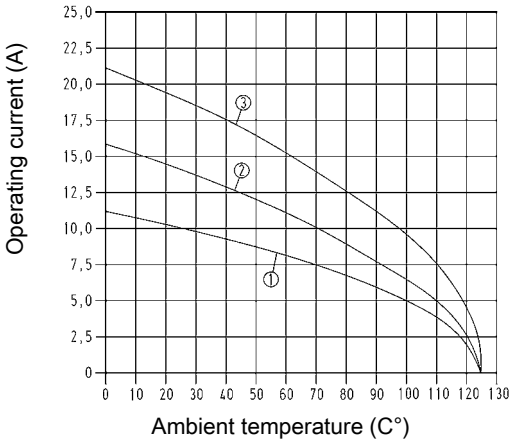
The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



① Wire cross section 1.5 mm²
② Wire cross section 2.5 mm²
③ Wire cross section 4 mm²

Derating



① Wire cross section 1.5 mm²
② Wire cross section 2.5 mm²
③ Wire cross section 4 mm²

Technical characteristics

Contacts	25, 48
Electrical data acc. to IEC 61984	**16 A 500 V 6 kV 3**
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Insulation resistance	≥10^{10} Ohm
Limiting temperatures	-40 °C ... 125 °C
Flammability (insert) acc. to UL 94	V 0
Mating cycles	≥500
Material (insert)	polycarbonate
Colour (insert)	RAL 7032 (light grey)
Material (contact)	copper alloy

Specifications and approvals

IEC 60664-1
IEC 61984

Details

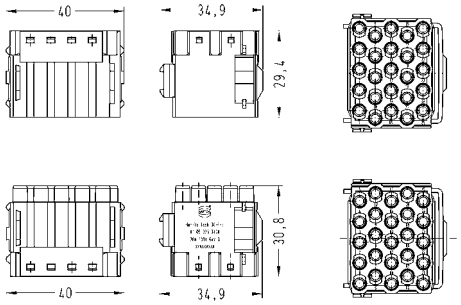
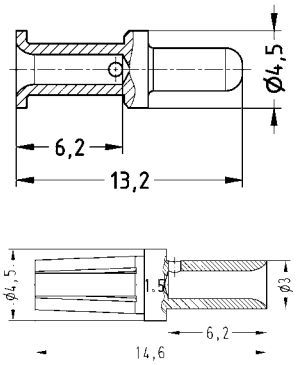
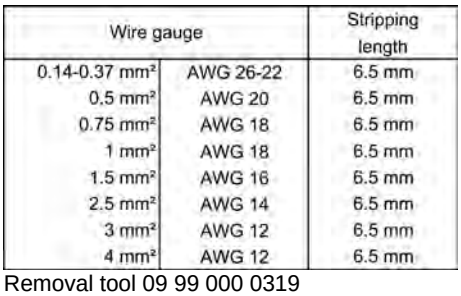
Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

25

500 V
16 A

Identification	Wire cross section (mm²)	Part number male	Part number female	Drawing Dimensions in mm
Han-*Yellock*®, Crimp terminal  Please order crimp contacts separately. ATTENTION! It is not possible to use 2 monoblocks 30 in the Han-*Yellock*® 60 series!		11 05 325 3001	11 05 325 3101	
Han-*Yellock*®, Crimp contact, gold plated contacts, contact resistance ≤2 mOhm 	0.14 – 0.37 0.5 0.75 1 1.5 2.5 3 4	11 05 000 6121 11 05 000 6122 11 05 000 6123 11 05 000 6124 11 05 000 6125 11 05 000 6126 11 05 000 6127 11 05 000 6128	11 05 000 6221 11 05 000 6222 11 05 000 6223 11 05 000 6224 11 05 000 6225 11 05 000 6226 11 05 000 6227 11 05 000 6228	
Han-*Yellock*®, Crimp contact, silver plated contacts, contact resistance ≤2 mOhm 	0.14 – 0.37 0.5 0.75 1 1.5 2.5 3 4	11 05 000 6101 11 05 000 6102 11 05 000 6103 11 05 000 6104 11 05 000 6105 11 05 000 6106 11 05 000 6107 11 05 000 6108	11 05 000 6201 11 05 000 6202 11 05 000 6203 11 05 000 6204 11 05 000 6205 11 05 000 6206 11 05 000 6207 11 05 000 6208	

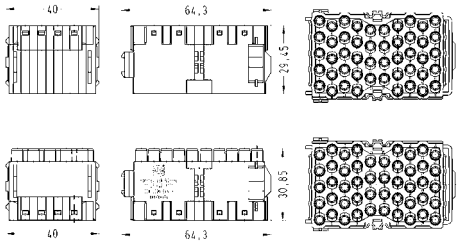
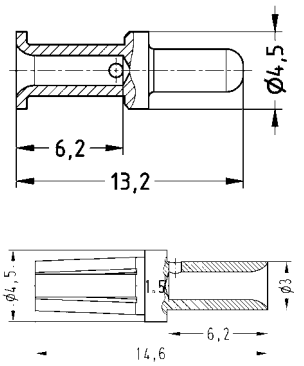
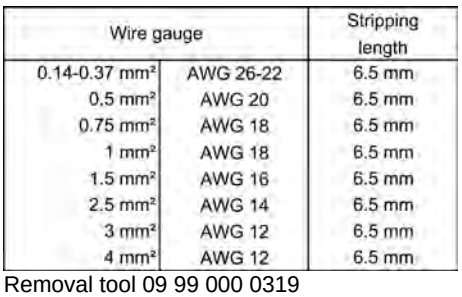
Wire gauge		Stripping length
0.14-0.37 mm²	AWG 26-22	6.5 mm
0.5 mm²	AWG 20	6.5 mm
0.75 mm²	AWG 18	6.5 mm
1 mm²	AWG 18	6.5 mm
1.5 mm²	AWG 16	6.5 mm
2.5 mm²	AWG 14	6.5 mm
3 mm²	AWG 12	6.5 mm
4 mm²	AWG 12	6.5 mm

Removal tool 09 99 000 0319
see chapter 90

Number of contacts

48

500 V
16 A

Identification	Wire cross section (mm²)	Part number male	Part number female	Drawing Dimensions in mm
Han-*Yellock*®, Crimp terminal  Please order crimp contacts separately.		11 05 648 3001	11 05 648 3101	
Han-*Yellock*®, Crimp contact, gold plated contacts, contact resistance ≤2 mOhm 	0.14 – 0.37 0.5 0.75 1 1.5 2.5 3 4	11 05 000 6121 11 05 000 6122 11 05 000 6123 11 05 000 6124 11 05 000 6125 11 05 000 6126 11 05 000 6127 11 05 000 6128	11 05 000 6221 11 05 000 6222 11 05 000 6223 11 05 000 6224 11 05 000 6225 11 05 000 6226 11 05 000 6227 11 05 000 6228	
Han-*Yellock*®, Crimp contact, silver plated contacts, contact resistance ≤2 mOhm 	0.14 – 0.37 0.5 0.75 1 1.5 2.5 3 4	11 05 000 6101 11 05 000 6102 11 05 000 6103 11 05 000 6104 11 05 000 6105 11 05 000 6106 11 05 000 6107 11 05 000 6108	11 05 000 6201 11 05 000 6202 11 05 000 6203 11 05 000 6204 11 05 000 6205 11 05 000 6206 11 05 000 6207 11 05 000 6208	

Wire gauge		Stripping length
0.14-0.37 mm²	AWG 26-22	6.5 mm
0,5 mm²	AWG 20	6.5 mm
0.75 mm²	AWG 18	6.5 mm
1 mm²	AWG 18	6.5 mm
1.5 mm²	AWG 16	6.5 mm
2.5 mm²	AWG 14	6.5 mm
3 mm²	AWG 12	6.5 mm
4 mm²	AWG 12	6.5 mm

Removal tool 09 99 000 0319
see chapter 90

Han-*Yellock*® 10 hoods/housings

Features

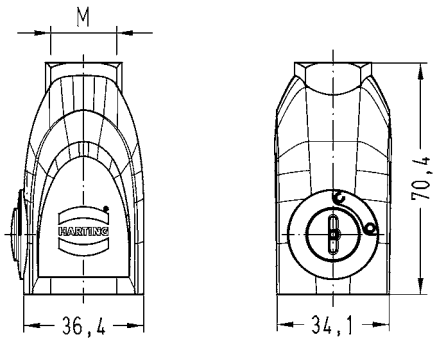
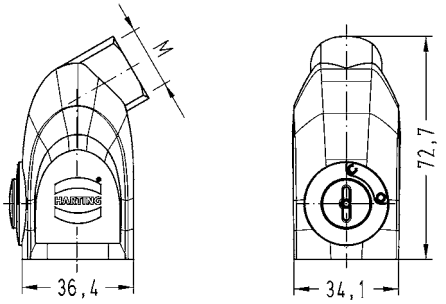
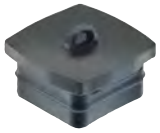
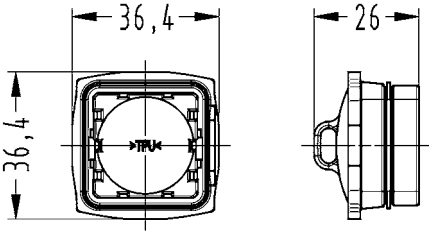
- Metal hoods/housings for industrial applications
- Highly EMC resistant
- High robustness due to internal locking mechanism
- Compatible with inserts size Han® 3 A

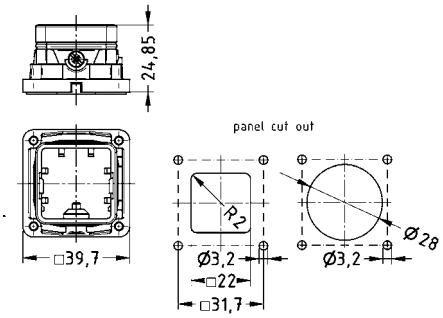
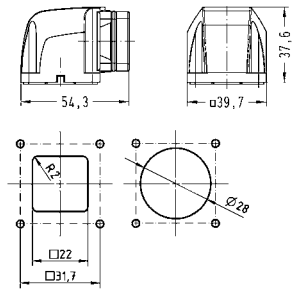
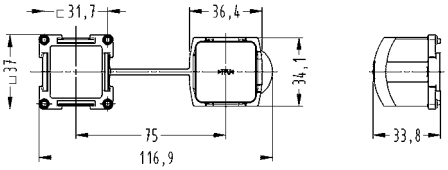
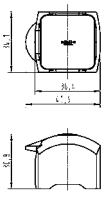
Technical characteristics

Un-/Locking temperatures	-10 °C ... 85 °C
Limiting temperatures	-40 °C ... 125 °C
Flammability (hoods/housings) acc. to UL 94	V 0
Mating cycles	<500
Flammability (seal) acc. to UL 94	V 0
Degree of protection acc. to IEC 60529	IP65 / IP67, IP44
Material (hoods/housings)	zinc die-cast
Surface (hoods/housings)	powder-coated
Colour (hoods/housings)	RAL 7021 black/grey, black, RAL 7037 (grey)
Material (locking lever)	polyamide + stainless steel
Colour (locking lever)	melon yellow
Material (seal)	NBR

Specifications and approvals

Metal hoods/housings for industrial applications

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Hoods, top entry, push button 	1xM20 1xM25	11 20 003 1400 11 20 003 1401	
Han-*Yellock*®, Hoods, angled entry, push button 	1xM20 1xM25	11 20 003 1600 11 20 003 1601	
Han-*Yellock*®, Protection cover for hoods, plastic 		11 20 003 5456	

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Bulkhead mounted housings, straight 		11 20 003 0300	
Han-*Yellock*®, Bulkhead mounted housings, angled 		11 20 003 0800	
Han-*Yellock*®, Protection cover for bulkhead mounted housings, with sealing, plastic 		11 20 003 5406	
Han-*Yellock*®, Protection cover for bulkhead mounted housings, without sealing, plastic 		11 20 003 5407	

Features

- For three Han-*Yellock*® modules
- High robustness due to internal locking mechanism
- Two-part housing
- Earthed contacts PE in crimped or Han-Quick Lock® termination
- Protection cover retrofit on housing side

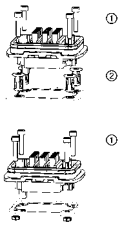
Technical characteristics

Un-/Locking temperatures	-10 °C ... 85 °C
Limiting temperatures	-40 °C ... 125 °C
Mating cycles	<500
Flammability (seal) acc. to UL 94	V 0
Degree of protection acc. to IEC 60529	IP65 / IP67
Material (hoods/housings)	zinc die-cast, aluminium
Surface (hoods/housings)	powder-coated
Colour (hoods/housings)	RAL 7037 (grey), black, RAL 7021 black/grey, white, RAL 9005 (black)
Material (locking lever)	polyamide + stainless steel
Colour (locking lever)	melon yellow
Material (seal)	NBR
Material (screwing)	stainless steel

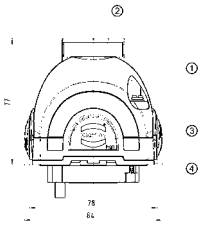
Specifications and approvals

IEC 61984
IEC 60664-1

Details

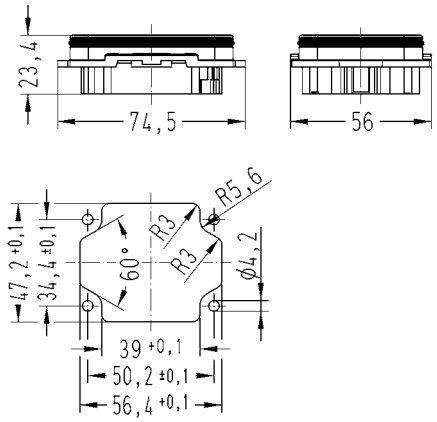
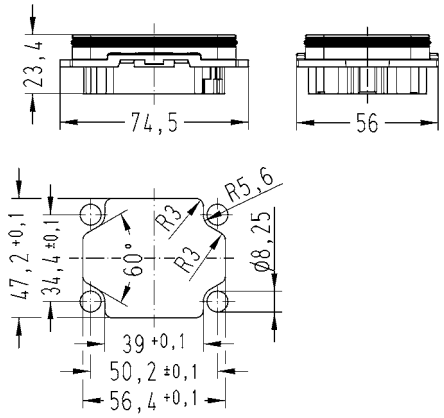
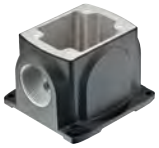
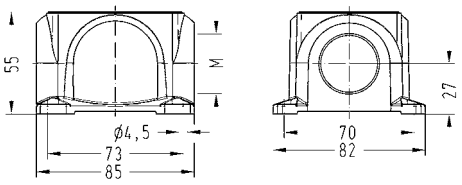


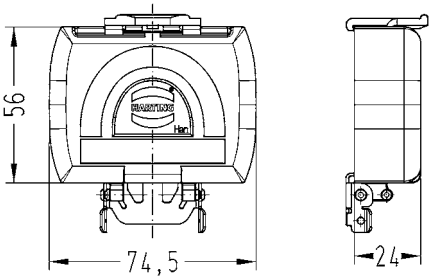
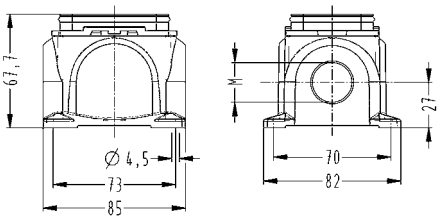
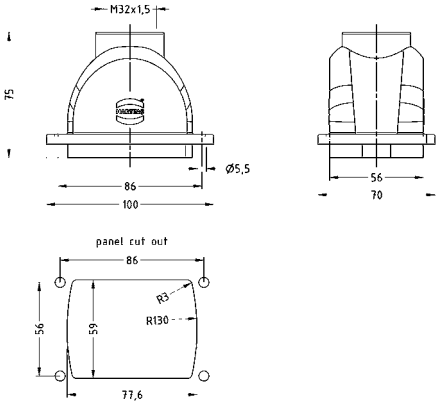
① M4 fixing screw (screw length > 20 mm, tightening torque: 1 Nm)
② panel fastener (tightening torque: 2.3 Nm)



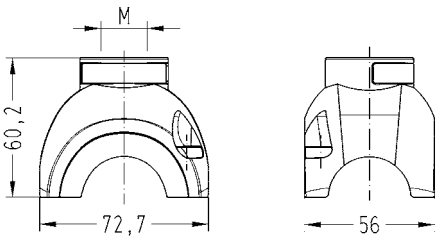
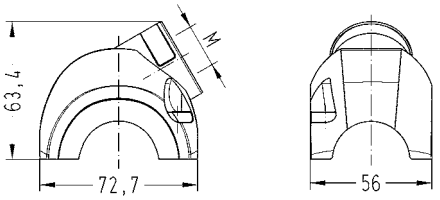
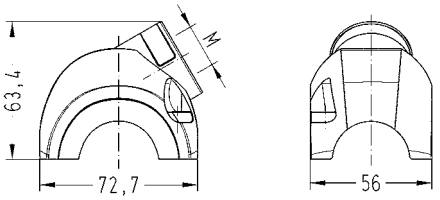
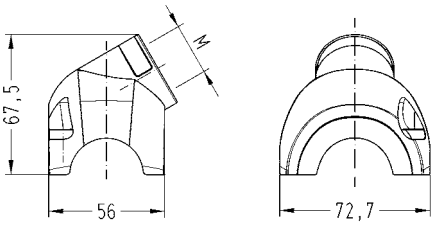
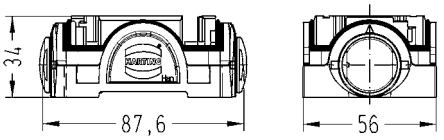
① Shell with top entry
② Cable entry M20 ... M40
③ Carrier hood with push button release
④ Housings bulkhead mounting

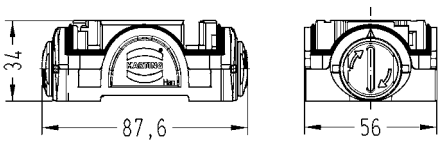
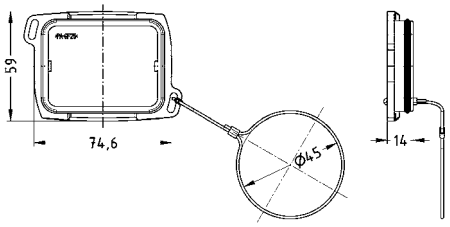
Metal hoods/housings for industrial applications

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Bulkhead mounted housings 		11 12 300 0301	
Han-*Yellock*®, Bulkhead mounted housings Range of delivery: 4 panel fastener included 		11 12 300 0302	
Han-*Yellock*®, Bulkhead and surface mounted housings, top entry, screw locking 	1xM20 1xM25 1xM32 2xM20 2xM25 2xM32	11 12 300 1200 11 12 300 1201 11 12 300 1202 11 12 300 1204 11 12 300 1205 11 12 300 1206	

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Protection cover for bulkhead mounted housings, plastic 		11 12 300 5401	
Han-*Yellock*®, Surface mounted housings, incl. Housings bulkhead mounting, top entry, screw locking 	1xM20 1xM25 1xM32 2xM20 2xM25 2xM32	11 12 300 1210 11 12 300 1211 11 12 300 1212 11 12 300 1214 11 12 300 1215 11 12 300 1216	
Han-*Yellock*®, Panel feed through housings, top entry 	1xM32	11 12 300 1702	

Metal hoods/housings for industrial applications

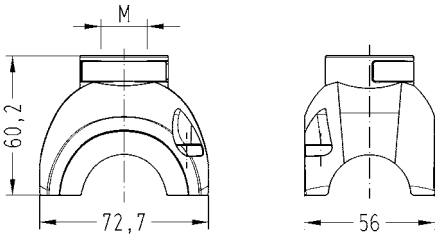
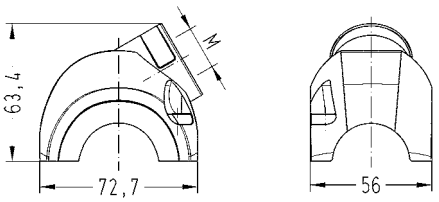
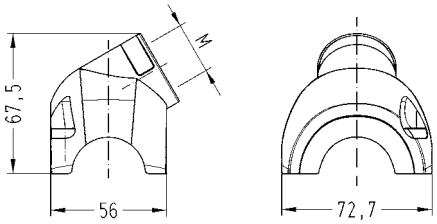
Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Shell, top entry, screw locking 	1xM20 1xM25 1xM32	11 12 300 1400 11 12 300 1401 11 12 300 1402	
Han-*Yellock*®, Shell, side entry, screw locking 	1xM20 1xM25 1xM32	11 12 300 1500 11 12 300 1501 11 12 300 1502	
Han-*Yellock*®, Shell, white, side entry, screw locking 	1xM20	11 12 300 1510	
Han-*Yellock*®, Shell, angled entry, screw locking 	1xM20 1xM25 1xM32	11 12 300 1600 11 12 300 1601 11 12 300 1602	
Han-*Yellock*®, Carrier hood, plain push button 		11 12 300 0100	

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Carrier hood, push button, slot 		11 12 300 0110	
Han-*Yellock*®, Protection covers for carrier hoods 		11 12 300 5451	

Metal hoods/housings for outdoor applications

Identification	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Bulkhead mounted housings 	11 13 300 0301	
Han-*Yellock*®, Bulkhead mounted housings Range of delivery: 4 panel fastener included 	11 13 300 0302	

Metal hoods/housings for outdoor applications

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Shell, top entry, screw locking 	1xM25	11 13 300 1401	
Han-*Yellock*®, Shell, side entry, screw locking 	1xM25	11 13 300 1501	
Han-*Yellock*®, Shell, angled entry, screw locking 	1xM25	11 13 300 1601	
Han-*Yellock*®, Carrier hood, plain push button 		11 13 300 0100	
Han-*Yellock*®, Carrier hood, push button, slot 		11 13 300 0110	

Features

- For six Han-*Yellock*® modules
- High robustness due to internal locking mechanism
- Two-part housing
- Earthed contacts PE in crimped or Han-Quick Lock® termination
- Protection cover retrofit on housing side

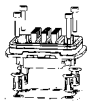
Technical characteristics

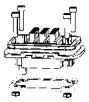
Un-/Locking temperatures	-10 °C ... 85 °C
Limiting temperatures	-40 °C ... 125 °C
Flammability (hoods/housings) acc. to UL 94	V 0
Mating cycles	<500
Flammability (locking lever) acc. to UL 94	V 0
Degree of protection acc. to IEC 60529	IP65 / IP67
Tightening torque (locking)	1 Nm, 2.3 Nm, 1.2 Nm
Material (hoods/housings)	zinc die-cast, aluminium, PA
Surface (hoods/housings)	powder-coated
Colour (hoods/housings)	RAL 7037 (grey), RAL 7021 black/grey, black, RAL 9005 (black)
Material (locking lever)	polyamide + stainless steel
Colour (locking lever)	melon yellow, RAL 9005 (black)
Material (seal)	NBR
Material (screwing)	stainless steel

Specifications and approvals

IEC 60664-1
IEC 61984
GL

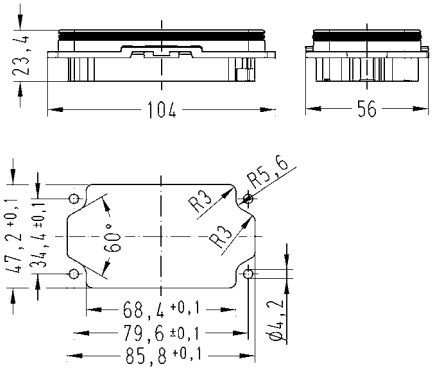
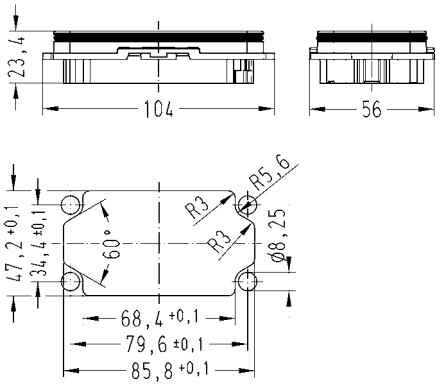
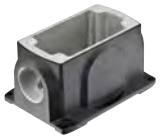
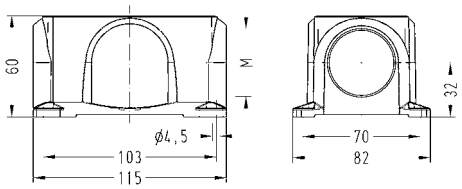
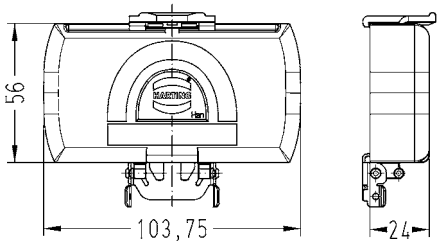
Details

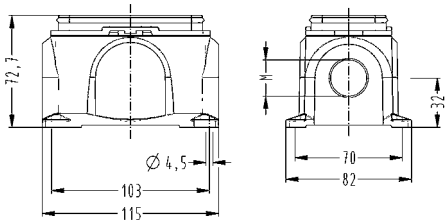
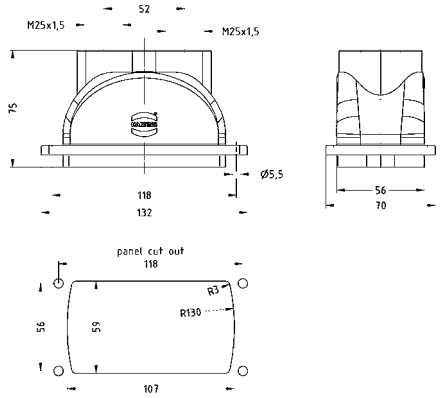




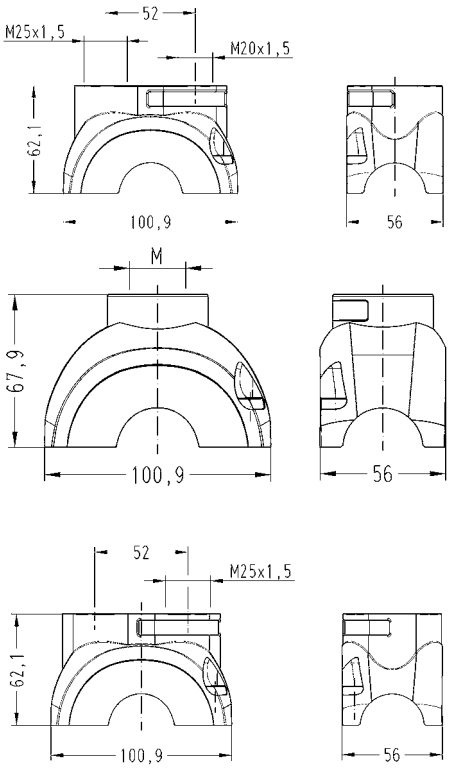
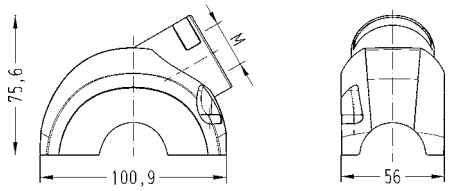
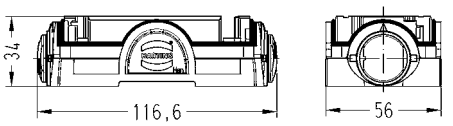
① M4 fixing screw (screw length > 20 mm, tightening torque: 1 Nm)
② panel fastener (tightening torque: 2.3 Nm)

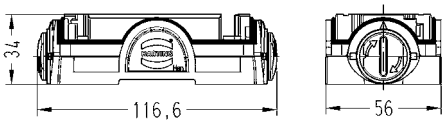
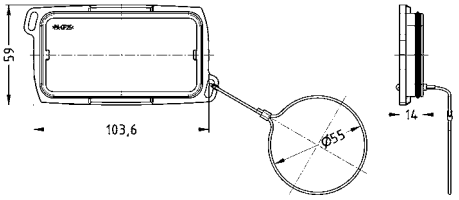
Metal hoods/housings for industrial applications

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Bulkhead mounted housings 		11 12 600 0301	
Han-*Yellock*®, Bulkhead mounted housings Range of delivery: 4 panel fastener included 		11 12 600 0302	
Han-*Yellock*®, Bulkhead and surface mounted housings, side entry, screw locking 	1xM25 1xM32 1xM40 2xM25 2xM32 2xM40	11 12 600 1201 11 12 600 1202 11 12 600 1203 11 12 600 1205 11 12 600 1206 11 12 600 1207	
Han-*Yellock*®, Protection cover for bulkhead mounted housings, plastic 		11 12 600 5401	

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Surface mounted housings, incl. Housings bulkhead mounting, side entry, screw locking 	1xM25 1xM32 1xM40 2xM25 2xM32 2xM40	11 12 600 1211 11 12 600 1212 11 12 600 1213 11 12 600 1215 11 12 600 1216 11 12 600 1217	
Han-*Yellock*®, Panel feed through housings, top entry 	2xM25	11 12 600 1711	

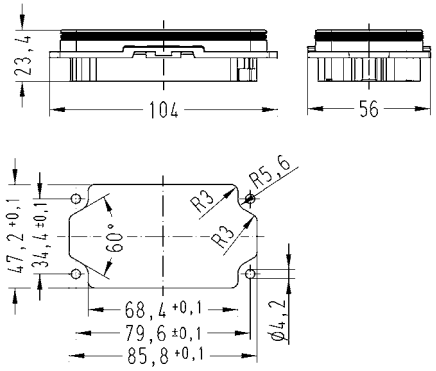
Metal hoods/housings for industrial applications

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Shell, top entry 	1xM20, 1xM25 1xM25 1xM32 1xM40 2xM25	11 12 600 1415 11 12 600 1401 11 12 600 1402 11 12 600 1403 11 12 600 1411	
Han-*Yellock*®, Shell, side entry 	1xM25 1xM32 1xM40	11 12 600 1501 11 12 600 1502 11 12 600 1503	
Han-*Yellock*®, Carrier hood, plain push button 		11 12 600 0100	

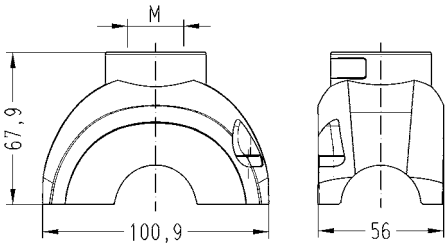
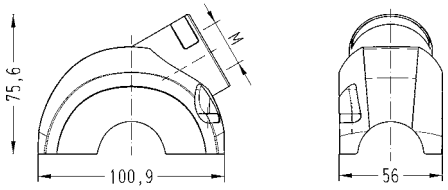
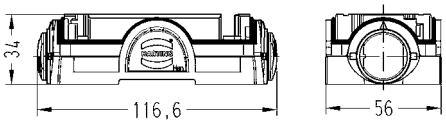
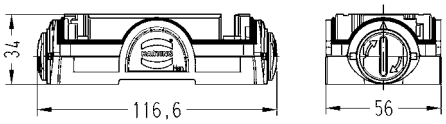
Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Carrier hood, push button, slot 		11 12 600 0110	
Han-*Yellock*®, Protection covers for carrier hoods 		11 12 600 5451	

Metal hoods/housings for outdoor applications

Identification	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Bulkhead mounted housings	11 13 600 0301	
Han-*Yellock*®, Bulkhead mounted housings Range of delivery: 4 panel fastener included	11 13 600 0302	

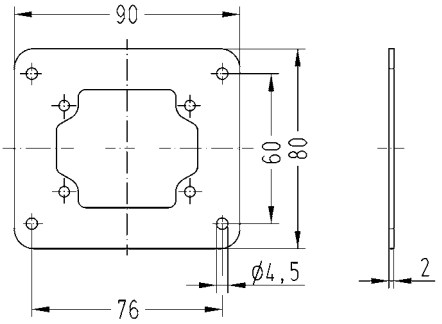
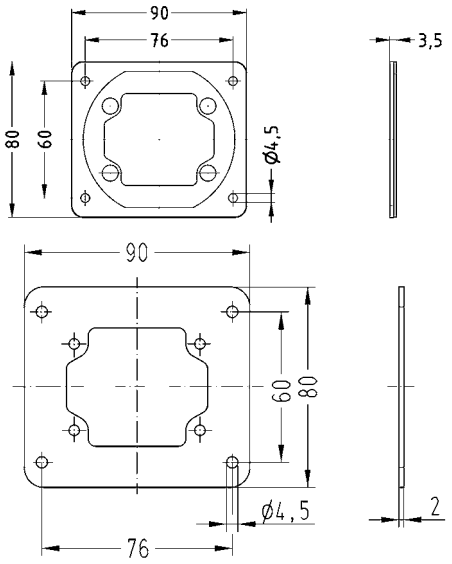


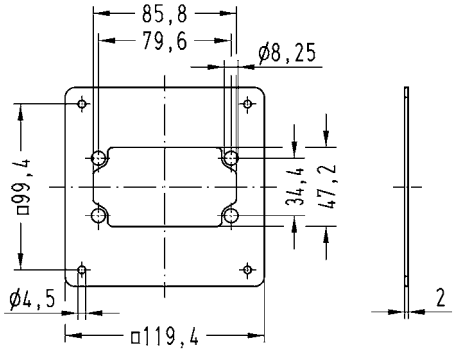
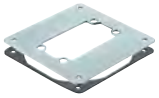
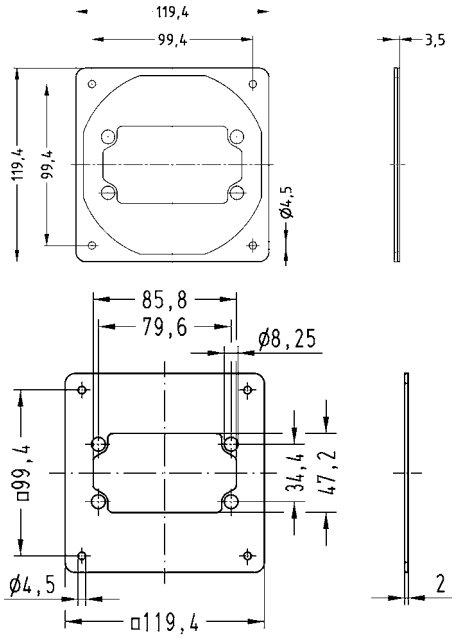
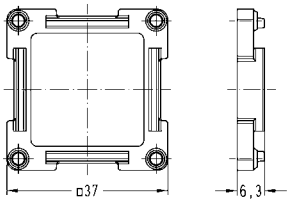
Metal hoods/housings for outdoor applications

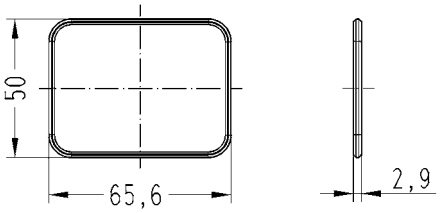
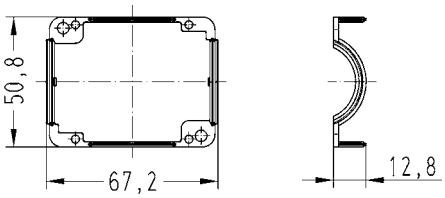
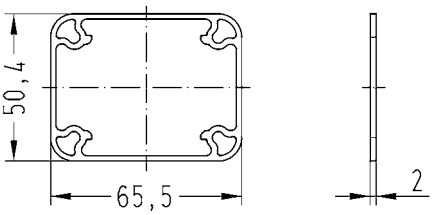
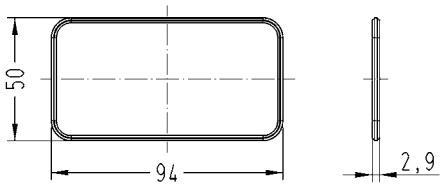
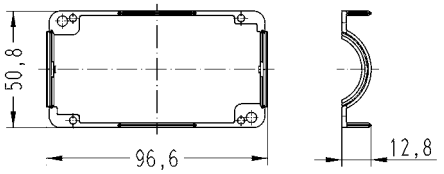
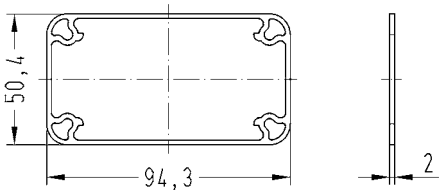
Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-*Yellock*®, Shell, top entry 	1xM32 1xM40	11 13 600 1402 11 13 600 1403	
Han-*Yellock*®, Shell, side entry 	1xM32	11 13 600 1502	
Han-*Yellock*®, Carrier hood, plain push button 		11 13 600 0100	
Han-*Yellock*®, Carrier hood, push button, slot 		11 13 600 0110	

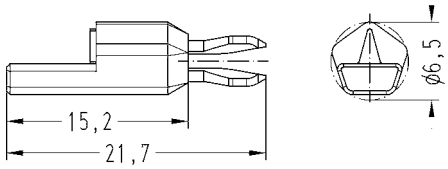
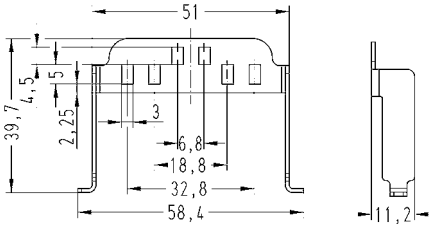
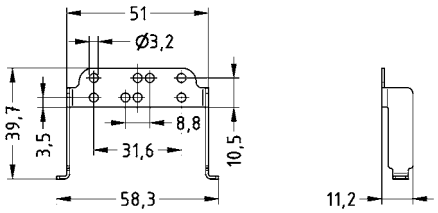
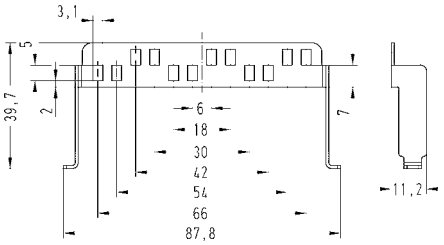
Technical characteristics

Material (seal)	NBR

Identification	Size	Part number	Drawing Dimensions in mm
Adapter plate, for Han-*Yellock*® 30  circular 68 mm punch for Han-*Yellock*® panel cut out		11 00 300 9601	
Adapter plate, for Han-*Yellock*® 30, with gasket 		11 00 300 9603	

Identification	Size	Part number	Drawing Dimensions in mm
Adapter plate, for Han-*Yellock*® 60 		11 00 600 9601	
Adapter plate, for Han-*Yellock*® 60, with gasket 		11 00 600 9603	
Flange gasket, for Han-*Yellock*® 10 		11 20 003 9904	
Profile gasket, for Han-*Yellock*® 10 		11 20 003 9905	

Identification	Size	Part number	Drawing Dimensions in mm
Profile gasket, for Han-*Yellock*® 30 		11 00 300 9501	
Shaped gasket, for Han-*Yellock*® 30 		11 00 300 9502	
Flange gasket, for Han-*Yellock*® 30 		11 00 300 9503	
Profile gasket, for Han-*Yellock*® 60 		11 00 600 9501	
Shaped gasket, for Han-*Yellock*® 60 		11 00 600 9502	
Flange gasket, for Han-*Yellock*® 60 		11 00 600 9503	

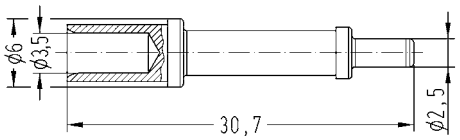
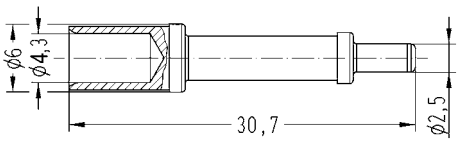
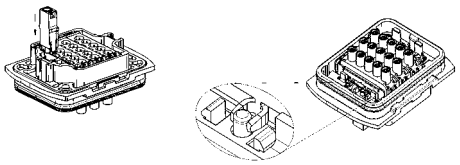
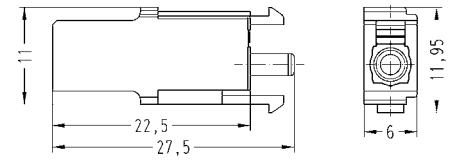
Identification	Size	Part number	Drawing Dimensions in mm
Coding element, plastic Range of delivery: 8 pieces per frame 		11 00 000 9501	
Fixing screws 	M3	11 20 003 9903	
Identification strip Range of delivery: 500 pieces on a reel 		11 00 000 9601	
Shielding frame, for Han-*Yellock*® 30, for cable clamp fitting 		11 12 300 5201	
Shielding frame, for Han-*Yellock*® 30, ground clamp 		11 12 300 5202	
Shielding frame, for Han-*Yellock*® 60, for cable clamp fitting 		11 12 600 5201	

Technical characteristics

Material (contact) copper alloy

Details

Crimping tools see chapter 90

Identification	Wire cross section (mm²)	Part number male	Part number female	Drawing Dimensions in mm
Han-*Yellock*®, Crimp terminal, PE contact 	6 10	11 00 000 9509 11 00 000 9510		 Stripping length 7.5 mm  Stripping length 7.5 mm
Han-Quick Lock® Han-*Yellock*®, PE contact chamber 	0.5 – 2.5	11 05 001 2601	11 05 001 2601	  Stripping length 10 mm

The KR 6 R900 sixx (KR AGILUS) with Han-*Yellock*® combines functional design and high technical requirements.

Photo courtesy: KUKA Roboter GmbH