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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.

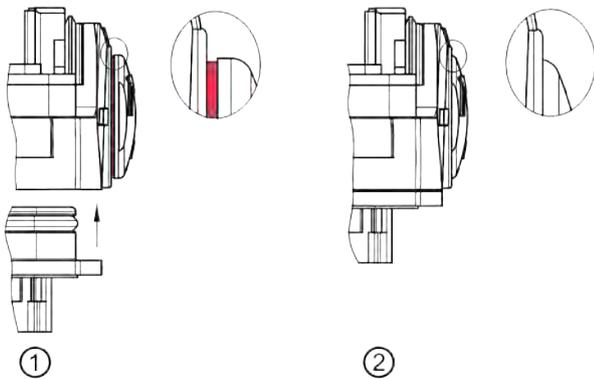
The Locking

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:

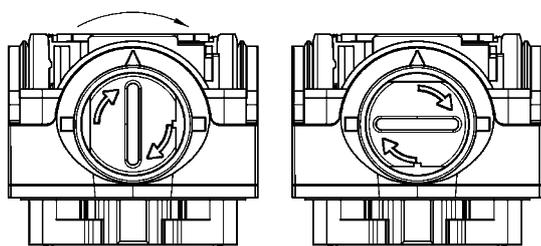
- Easy handling
- Resistance to vibrations and shock
- Protected against accidental opening
- Compact, space-saving design

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 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.



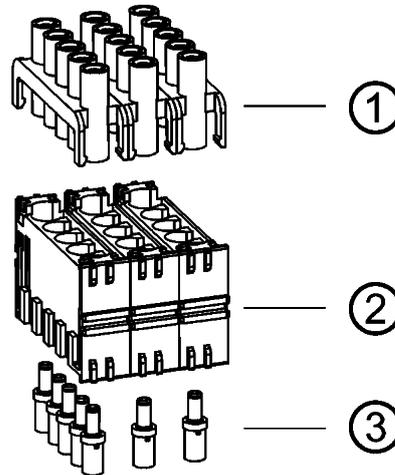
- „open“
- „blocked“

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

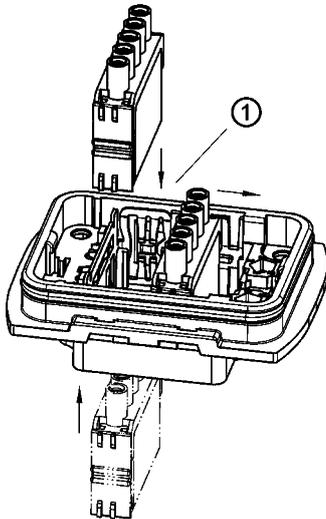
This concept allows a 1:1 wire to wire arrangement and in addition the use of bridges. Two to five contacts can be arranged.

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.

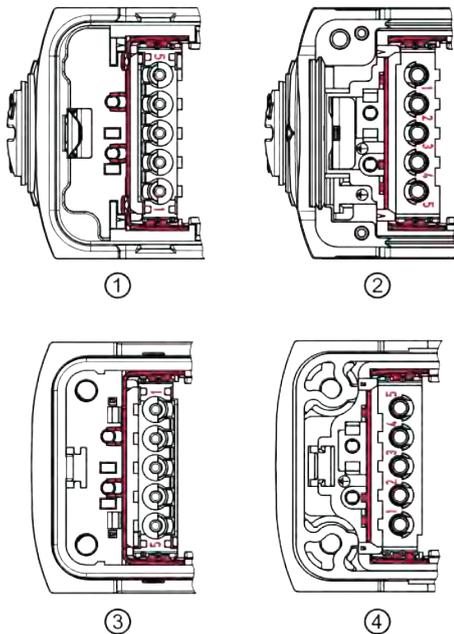
Inserting the module into the hoods/housing

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

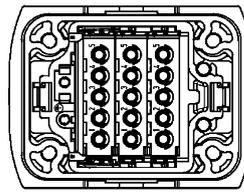


① plug-in position „A“

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

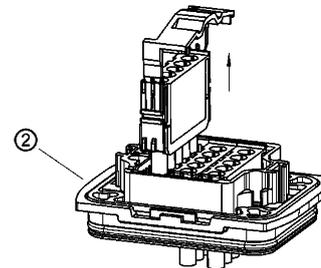
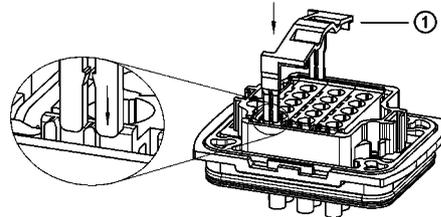


- ① Carrier hood, mating side
- ② Carrier hood, connection side
- ③ Housing, bulkhead mounting, mating side
- ④ Housing, bulkhead mounting, connection side
- A distinct click can be heard when the module snaps into position. It is then pushed along the rail to its final position. The plug-in slots must always be completely filled.



Disassembling the Han-Yellock® module

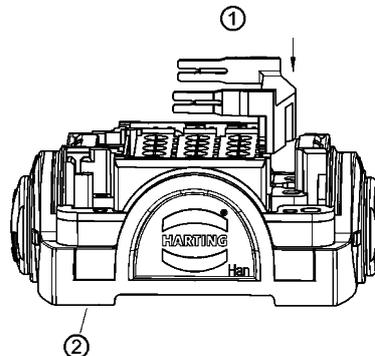
- The removal tool (part no. 11 99 000 0001) is required to take out the module.
- The following illustration shows how to insert the removal tool into the metal clamp. The tool should then be pressed down until it reaches the end stop.
- The tool is then pulled back and the module comes out of the housing.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



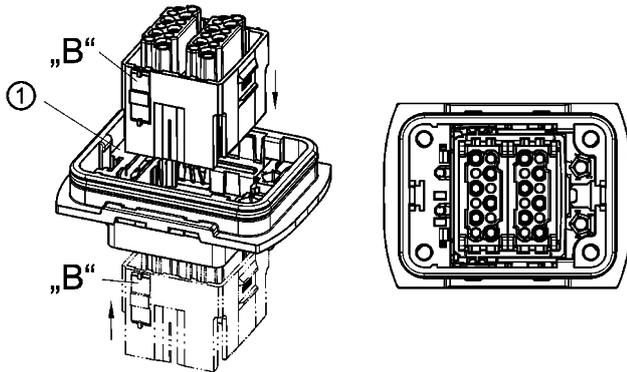
- ① removal tool
- ② carrier hood

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:

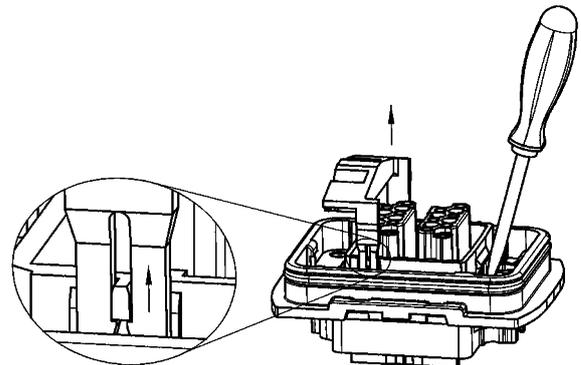
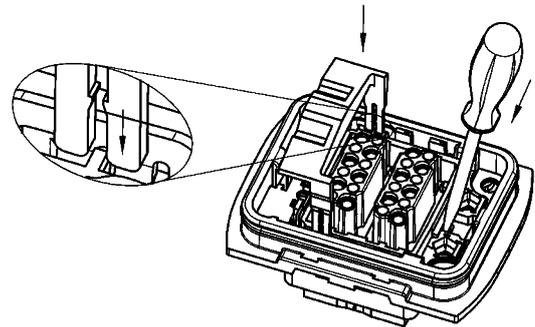
- The adapter frame can be snapped into the housing, bulkhead mounting, on the termination side and the mating side (refer to the illustration).
- The lateral plastic tabs („B“) are pressed into the metal clamps on the housing.
- The adapter frame then snaps in with a distinctly audible click.



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

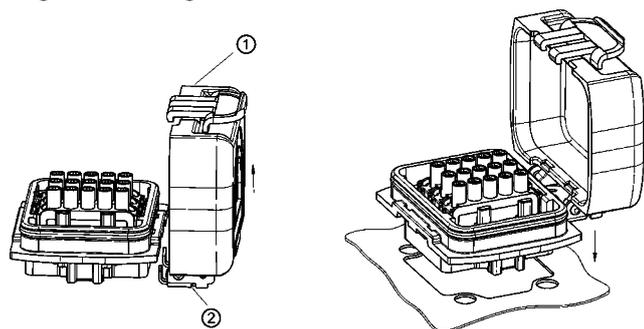
Protection cover function

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.



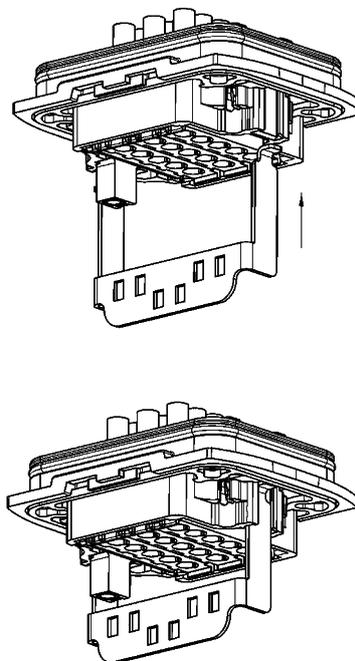
- ① cover
- ② bearing pedestal

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.



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 mm ²	0.5 ... 2.5 mm ²	0.25 ... 1.5 mm ²	1 ... 2.5 mm ²
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 mm ²	0.25 ... 1.5 mm ²	0.14 ... 2.5 mm ²	0.25 ... 1.5 mm ²
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 mm ²	4 ... 10 mm ²	1.5 ... 10 mm ²	2.5 ... 6 mm ²
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	40 A	40 A	40 A	16 A
Rated voltage	830 V	830 V	400 V	230 / 400 V
Wire gauge	4 ... 10 mm ²	1.5 ... 10 mm ²	1.5 ... 10 mm ²	0.14 ... 2.5 mm ²
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	16 A	10 A	10 A	
Rated voltage	230 / 400 V	400 V	400 V	
Wire gauge	0.5 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²	
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	10 A	10 A	10 A	10 A
Rated voltage	24 V	24 V	24 V	24 V
Wire gauge	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²
Male insert (M)	09 12 003 3021	09 12 003 3031		
Female insert (F)			09 12 003 2774	09 12 003 2776

Han-Yellock

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 mm ²	1.5 ... 6 mm ²	0.14 ... 4 mm ²	0.5 ... 2.5 mm ²
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 mm ²	0.5 ... 2.5 mm ²	0.14 ... 4 mm ²	0.14 ... 4 mm ²
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 mm ²	0.14 ... 2.5 mm ²	0.25 ... 1.5 mm ²	0.14 ... 2.5 mm ²
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 mm ²	0.08 ... 0.52 mm ²		

Han-
Yellow

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	<p>Han-Quintax® contact 4 + shielding</p> 	<p>High Density Quintax contact 8 + shielding</p> 	<p>Han D® Coax contact 75 Ω 1 + shielding</p>  75 Ω	<p>Han E® Coax contact 50 Ω 1 + shielding</p>  50 Ω	<p>Coaxial contact</p>  50 Ω RG 174 75 Ω RG 179 50 Ω RG 58

Han-
Yellow

Features

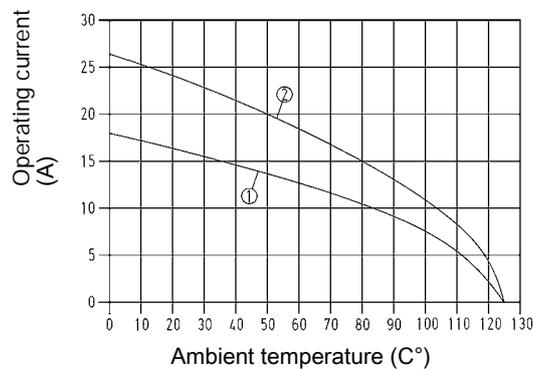
- Snap-in assembly from mating side and from termination side
- Bus bar within bridge attachments
- Finger safe design
- Fast and tool-less assembly
- Mating compatible to the crimp version

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

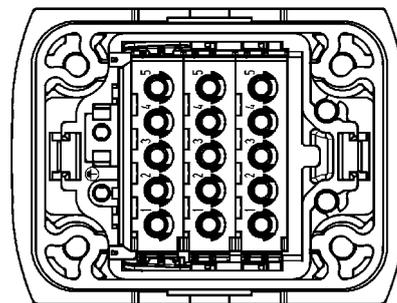
Contacts	5
Electrical data acc. to IEC 61984	blue slide 20 A 500 V 6 kV 3 black slide 10 A 500 V 6 kV 3
Rated current	20 A, 10 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ohm
Limiting temperatures	-40 °C ... 125 °C
Flammability (insert) acc. to UL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

Specifications and approvals

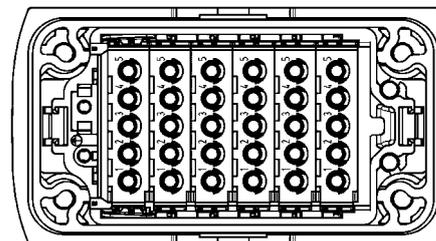
IEC 60664-1
IEC 61984



Details



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

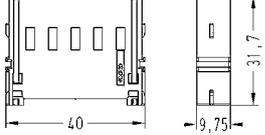


Placement for Han-Yellock® 60 with 6 Han-Yellock® modules

Number of contacts

5

500 V
20 A

Identification	Wire cross section (mm ²)	Part number	Drawing Dimensions in mm
<p> Han-Quick Lock¹ Han-Yello[®], Han-Quick Lock[®] termination, blue slide, silver plated contacts, contact resistance ≤ 2 mOhm</p> 	0.5 – 2.5	11 05 105 2633	 <p>Stripping length 10 mm</p> 
<p> Han-Quick Lock¹ Han-Yello[®], Han-Quick Lock[®] termination, black slide, silver plated contacts, contact resistance ≤ 2 mOhm</p> 	0.25 – 1.5	11 05 105 2634	

Han-Yello

Features

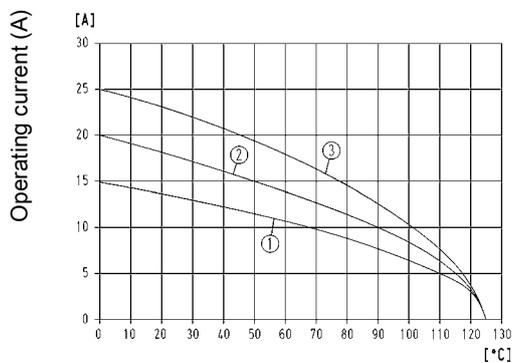
- Snap-in assembly from mating side and from termination side
- Wiring with male contacts only
- Bus bar within bridge attachments
- Finger safe design
- Fast and tool-less assembly

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

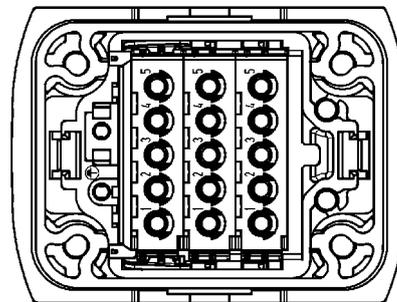
IEC 60664-1
IEC 61984



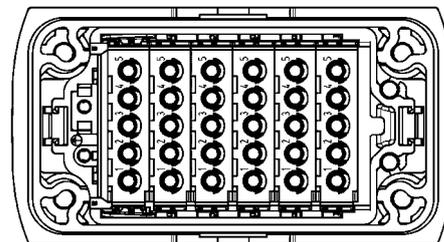
Details

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

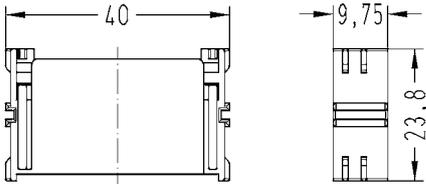
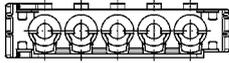
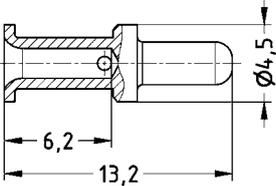


Placement for Han-Yellock® 60 with 6 Han-Yellock® modules

Number of contacts

5

500 V
20 A

Identification	Wire cross section (mm ²)	Part number	Drawing Dimensions in mm																											
<p>Han-Yellock®, Crimp terminal, silver plated contacts, contact resistance ≤2 mOhm</p> 		<p>11 05 105 3001 11 05 105 3011 11 05 105 3012</p>	  <p>11 05 105 3001 grey 11 05 105 3011 blue 11 05 105 3012 red</p>																											
<p>Han-Yellock®, Crimp contact, gold plated contacts, contact resistance ≤2 mOhm</p> 	<p>0.14–0.37 0.5 0.75 1 1.5 2.5 3 4</p>	<p>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</p>																												
<p>Han-Yellock®, Crimp contact, silver plated contacts, contact resistance ≤2 mOhm</p> 	<p>0.14–0.37 0.5 0.75 1 1.5 2.5 3 4</p>	<p>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</p>	<table border="1" data-bbox="1007 1361 1465 1626"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>6.5 mm</td> </tr> <tr> <td>0.5 mm²</td> <td>AWG 20</td> <td>6.5 mm</td> </tr> <tr> <td>0.75 mm²</td> <td>AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1 mm²</td> <td>AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1.5 mm²</td> <td>AWG 16</td> <td>6.5 mm</td> </tr> <tr> <td>2.5 mm²</td> <td>AWG 14</td> <td>6.5 mm</td> </tr> <tr> <td>3 mm²</td> <td>AWG 12</td> <td>6.5 mm</td> </tr> <tr> <td>4 mm²</td> <td>AWG 12</td> <td>6.5 mm</td> </tr> </tbody> </table> <p>Removal tool 09 99 000 0319 see chapter 90</p>	Wire gauge		Stripping length	0.14-0.37 mm ²	AWG 26-22	6.5 mm	0.5 mm ²	AWG 20	6.5 mm	0.75 mm ²	AWG 18	6.5 mm	1 mm ²	AWG 18	6.5 mm	1.5 mm ²	AWG 16	6.5 mm	2.5 mm ²	AWG 14	6.5 mm	3 mm ²	AWG 12	6.5 mm	4 mm ²	AWG 12	6.5 mm
Wire gauge		Stripping length																												
0.14-0.37 mm ²	AWG 26-22	6.5 mm																												
0.5 mm ²	AWG 20	6.5 mm																												
0.75 mm ²	AWG 18	6.5 mm																												
1 mm ²	AWG 18	6.5 mm																												
1.5 mm ²	AWG 16	6.5 mm																												
2.5 mm ²	AWG 14	6.5 mm																												
3 mm ²	AWG 12	6.5 mm																												
4 mm ²	AWG 12	6.5 mm																												

Han-Yellock

Features

- Snap-in assembly from mating side and from termination side
- Bus bar within bridge attachments
- 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)

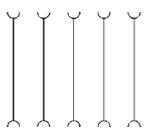
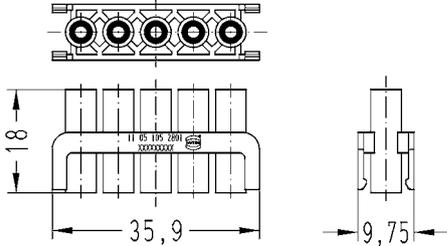
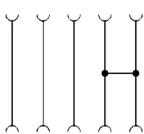
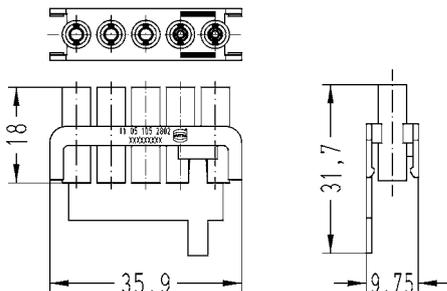
Specifications and approvals

IEC 60664-1
IEC 61984

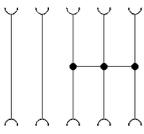
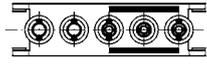
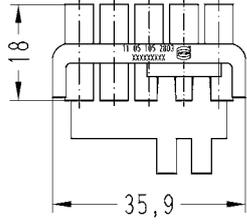
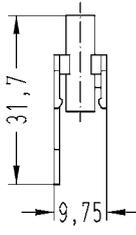
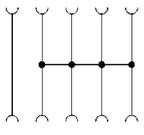
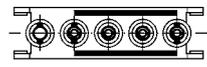
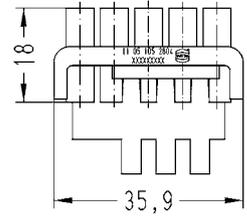
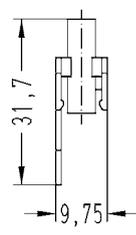
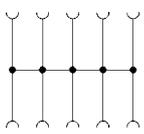
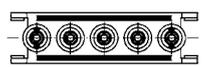
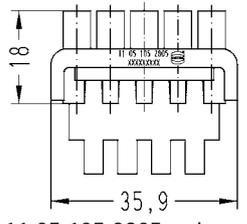
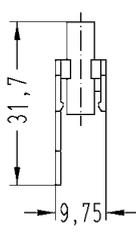


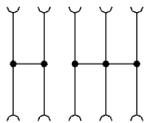
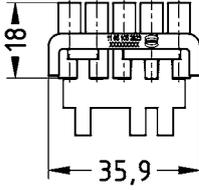
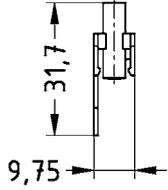
Number of contacts

5

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

Han-Yellock

Identification	Part number	Drawing Dimensions in mm
<p>Han-Yellock®, Multiplier, 3:2</p> 	<p>11 05 105 2803</p>	<p>Circuit diagram</p>  <p>3 bridged contacts 2 unbridged contacts</p>    <p>Dimensions: 18, 35,9, 31,7, 9,75</p>
<p>Han-Yellock®, Multiplier, 4:1</p> 	<p>11 05 105 2804</p>	<p>Circuit diagram</p>  <p>4 bridged contacts 1 unbridged contacts</p>    <p>Dimensions: 18, 35,9, 31,7, 9,75</p>
<p>Han-Yellock®, Multiplier, 5:0</p> 	<p>11 05 105 2805 11 05 105 2815</p>	<p>Circuit diagram</p>  <p>5 bridged contacts 0 unbridged contacts</p>    <p>Dimensions: 18, 35,9, 31,7, 9,75</p> <p>11 05 105 2805 red 11 05 105 2815 blue</p>

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

Han-Yellock

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



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:

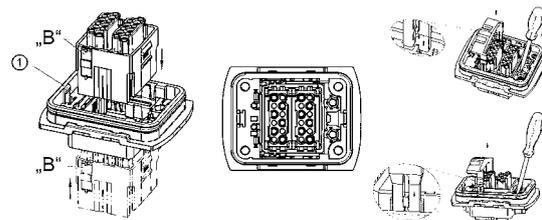
The removal tool part no. 11 99 000 0001 is required for disassembly. (see chapter 90)

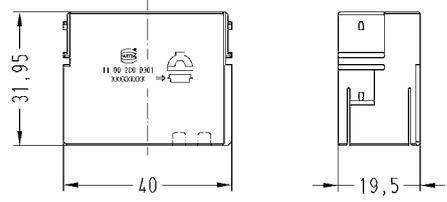
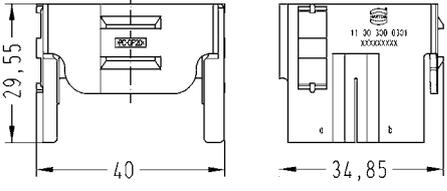
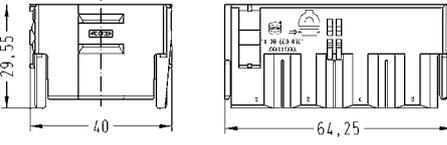
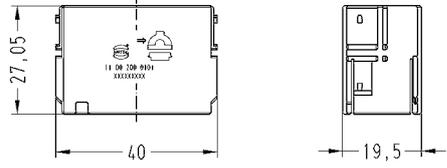
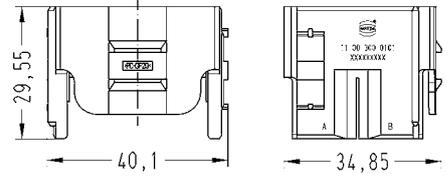
The removal tool is inserted into the metal clamp and pressed down as shown in the following illustration. A screwdriver need also be placed into the notch in the housing.

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.



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

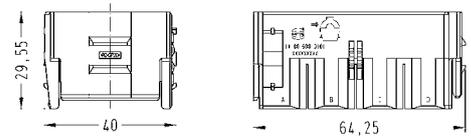
Han-Yellock

Identification	Part number	Drawing Dimensions in mm
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Han-Yellock®,
Adapter frames,
for Han-Yellock® 60,
for carrier hoods



11 00 600 0101



Combinations	Han-Yellock® Hood/Housing				
	30	30	60	50	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	1

Features

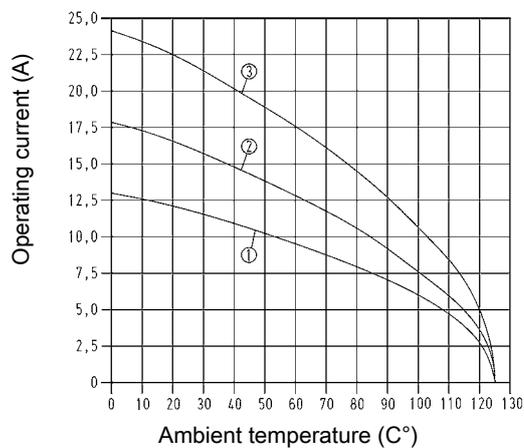
- Snap-in assembly from mating side and from termination side
- Finger safe design
- Fast and tool-less assembly

Derating

Current carrying capacity

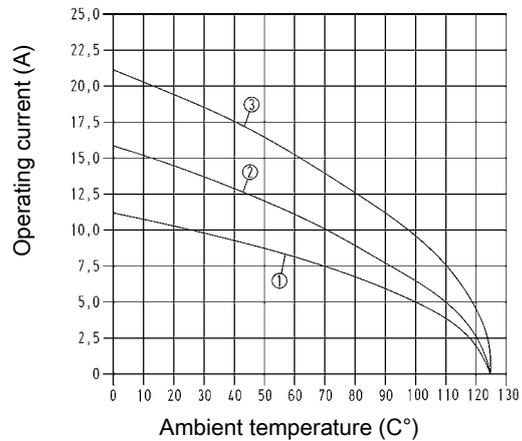
The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the 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

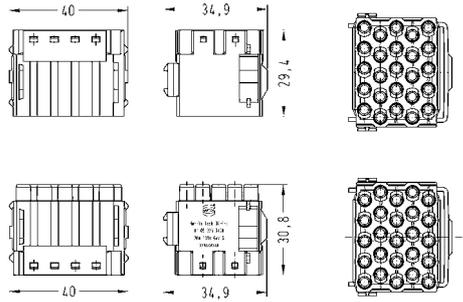
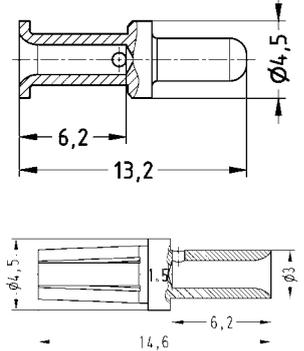
Remarks on the crimp technique

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

Number of contacts

25

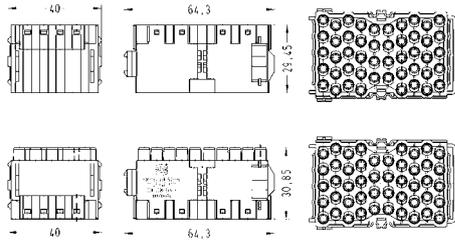
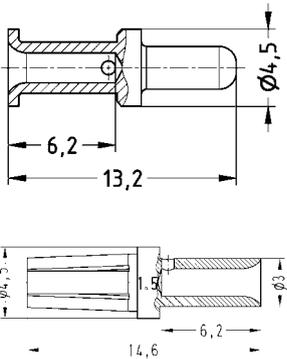
500 V
16 A

Identification	Wire cross section (mm²)	Part number		Drawing Dimensions in mm																											
		male	female																												
<p>Han-Yellock®, Crimp terminal</p>  <p>Please order crimp contacts separately. ATTENTION! It is not possible to use 2 monoblocks 30 in the Han-Yellock® 60 series!</p>		11 05 325 3001	11 05 325 3101																												
<p>Han-Yellock®, Crimp contact, gold plated contacts, contact resistance ≤2 mOhm</p> 	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																												
<p>Han-Yellock®, Crimp contact, silver plated contacts, contact resistance ≤2 mOhm</p> 	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	<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>6.5 mm</td> </tr> <tr> <td>0.5 mm²</td> <td>AWG 20</td> <td>6.5 mm</td> </tr> <tr> <td>0.75 mm²</td> <td>AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1 mm²</td> <td>AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1.5 mm²</td> <td>AWG 16</td> <td>6.5 mm</td> </tr> <tr> <td>2.5 mm²</td> <td>AWG 14</td> <td>6.5 mm</td> </tr> <tr> <td>3 mm²</td> <td>AWG 12</td> <td>6.5 mm</td> </tr> <tr> <td>4 mm²</td> <td>AWG 12</td> <td>6.5 mm</td> </tr> </tbody> </table> <p>Removal tool 09 99 000 0319 see chapter 90</p>	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
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4 mm²	AWG 12	6.5 mm																													

Number of contacts

48

500 V
16 A

Identification	Wire cross section (mm ²)	Part number		Drawing Dimensions in mm																											
		male	female																												
<p>Han-Yellock®, Crimp terminal</p>  <p>Please order crimp contacts separately.</p>		11 05 648 3001	11 05 648 3101																												
<p>Han-Yellock®, Crimp contact, gold plated contacts, contact resistance ≤2 mOhm</p> 	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																												
<p>Han-Yellock®, Crimp contact, silver plated contacts, contact resistance ≤2 mOhm</p> 	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	<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>6.5 mm</td> </tr> <tr> <td>0.5 mm²</td> <td>AWG 20</td> <td>6.5 mm</td> </tr> <tr> <td>0.75 mm²</td> <td>AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1 mm²</td> <td>AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1.5 mm²</td> <td>AWG 16</td> <td>6.5 mm</td> </tr> <tr> <td>2.5 mm²</td> <td>AWG 14</td> <td>6.5 mm</td> </tr> <tr> <td>3 mm²</td> <td>AWG 12</td> <td>6.5 mm</td> </tr> <tr> <td>4 mm²</td> <td>AWG 12</td> <td>6.5 mm</td> </tr> </tbody> </table> <p>Removal tool 09 99 000 0319 see chapter 90</p>	Wire gauge		Stripping length	0.14-0.37 mm ²	AWG 26-22	6.5 mm	0.5 mm ²	AWG 20	6.5 mm	0.75 mm ²	AWG 18	6.5 mm	1 mm ²	AWG 18	6.5 mm	1.5 mm ²	AWG 16	6.5 mm	2.5 mm ²	AWG 14	6.5 mm	3 mm ²	AWG 12	6.5 mm	4 mm ²	AWG 12	6.5 mm
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4 mm ²	AWG 12	6.5 mm																													

Han-Yellock

Features

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

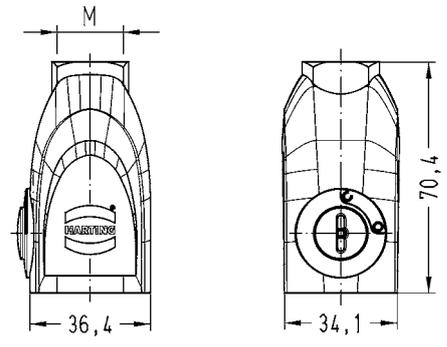
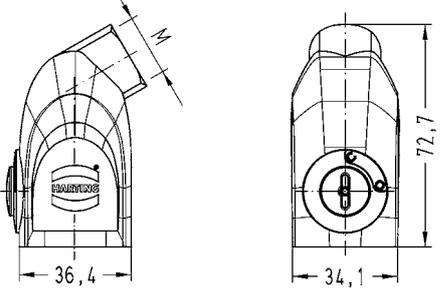
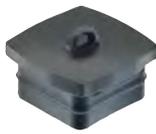
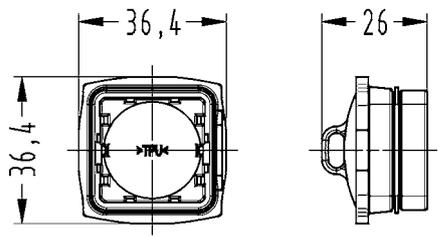
Technical characteristics

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

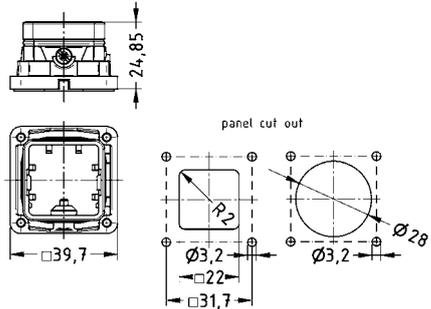
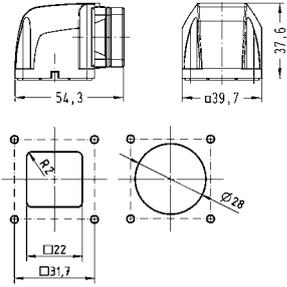
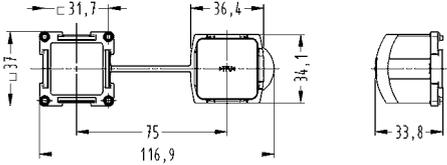
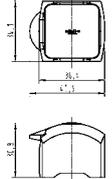
Specifications and approvals



Metal hoods/housings for industrial applications

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

Han-Yellock

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

Features

- For three Han-Yellok® 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

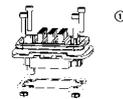
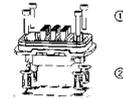
Un-/Locking temperatures	-10 °C ... 85 °C
Limiting temperatures	-40 °C ... 125 °C
Mating cycles	<500
Flammability (seal) acc. to UL 94	V 0
Degree of protection acc. to IEC 60529	IP65 / IP67
Material (hoods/housings)	zinc die-cast, aluminium
Surface (hoods/housings)	powder-coated
Colour (hoods/housings)	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

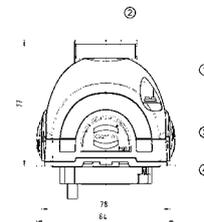
IEC 61984
IEC 60664-1



Details

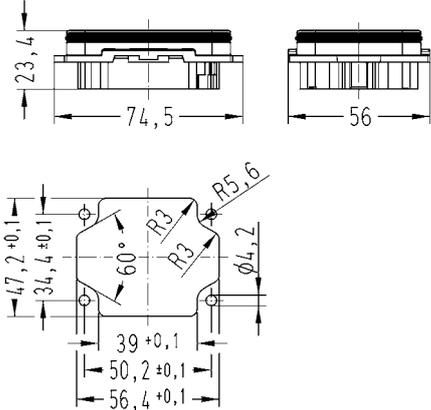
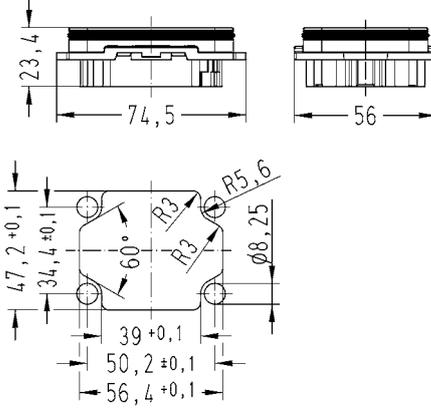
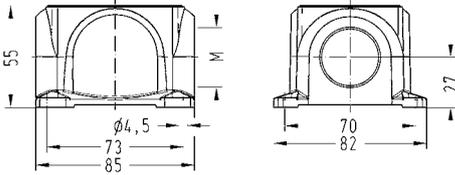


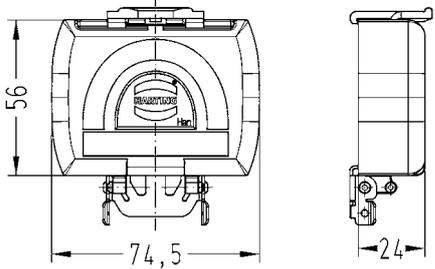
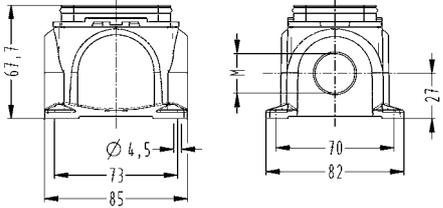
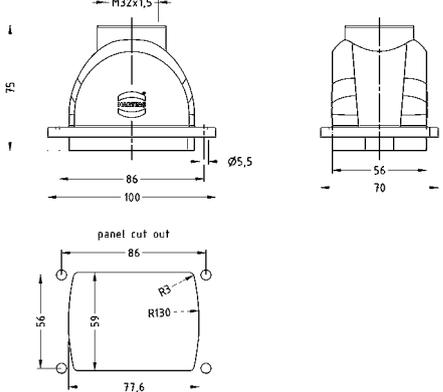
- ① M4 fixing screw (screw length > 20 mm, tightening torque: 1 Nm)
- ② panel fastener (tightening torque: 2.3 Nm)



- 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
<p>Han-Yellock®, Bulkhead mounted housings</p> 		11 12 300 0301	
<p>Han-Yellock®, Bulkhead mounted housings Range of delivery: 4 panel fastener included</p> 		11 12 300 0302	
<p>Han-Yellock®, Bulkhead and surface mounted housings, top entry, screw locking</p> 	<p>1xM20 1xM25 1xM32 2xM20 2xM25 2xM32</p>	<p>11 12 300 1200 11 12 300 1201 11 12 300 1202 11 12 300 1204 11 12 300 1205 11 12 300 1206</p>	

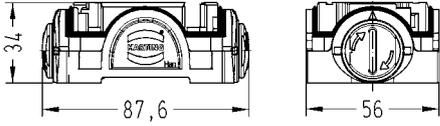
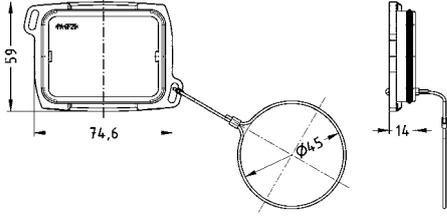
Identification	Cable entry	Part number	Drawing Dimensions in mm
<p>Han-Yellock®, Protection cover for bulkhead mounted housings, plastic</p> 		11 12 300 5401	
<p>Han-Yellock®, Surface mounted housings, incl. Housings bulkhead mounting, top entry, screw locking</p> 	<p>1xM20 1xM25 1xM32 2xM20 2xM25 2xM32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

Han-Yellock



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

Han-Yellock

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	



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

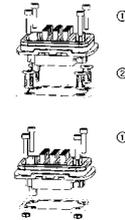
Un-/Locking temperatures	-10 °C ... 85 °C
Limiting temperatures	-40 °C ... 125 °C
Flammability (hoods/housings) acc. to UL 94	V 0
Mating cycles	<500
Flammability (locking lever) acc. to UL 94	V 0
Degree of protection acc. to IEC 60529	IP65 / IP67
Tightening torque (locking)	1 Nm, 2.3 Nm, 1.2 Nm
Material (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

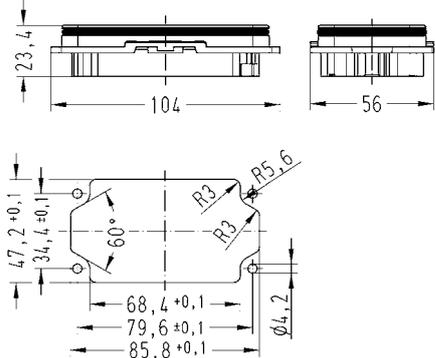
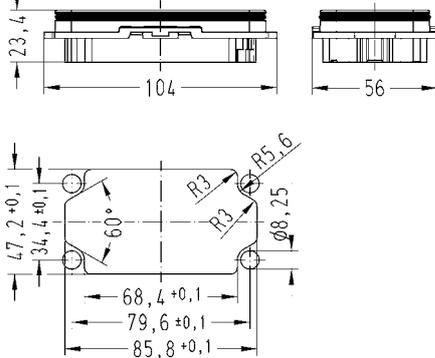
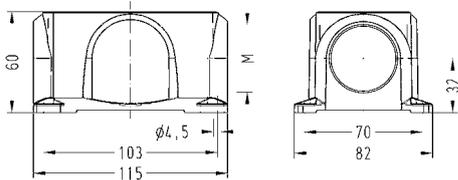
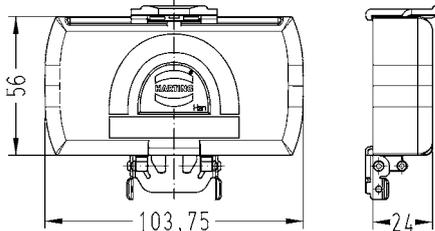


Details

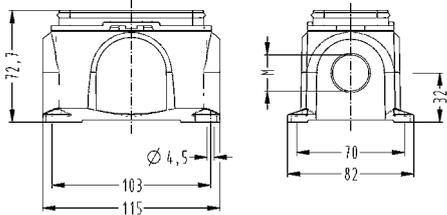
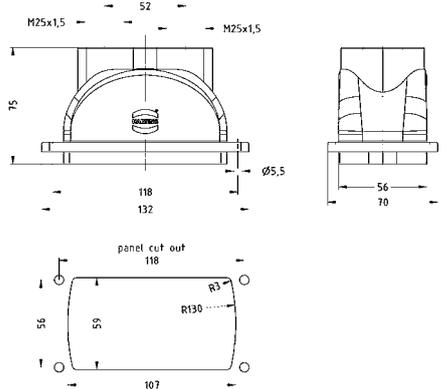


- ① M4 fixing screw (screw length > 20 mm, tightening torque: 1 Nm)
- ② panel fastener (tightening torque: 2.3 Nm)

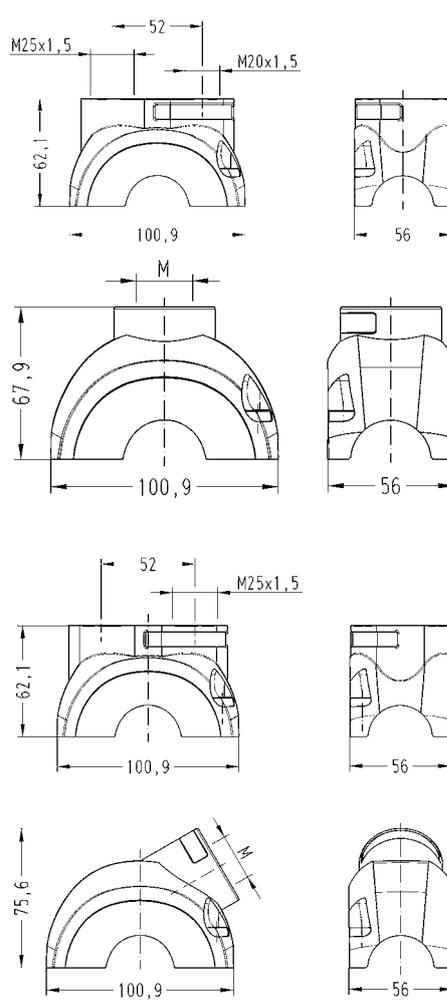
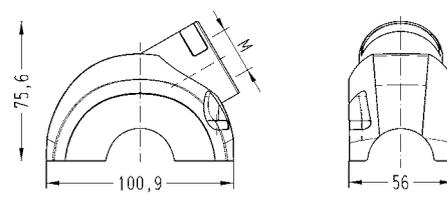
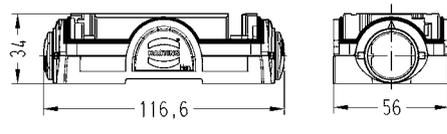
Metal hoods/housings for industrial applications

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

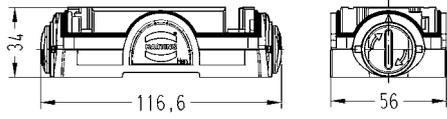
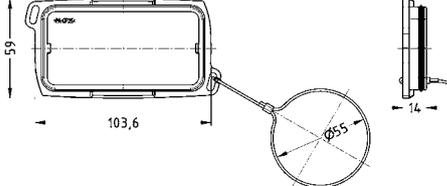
Han-Yellock

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

Metal hoods/housings for industrial applications

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

Han-Yellock

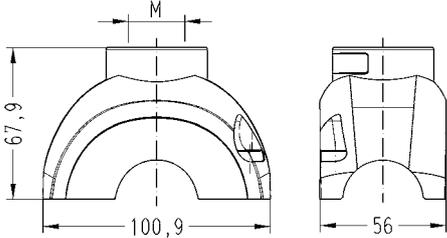
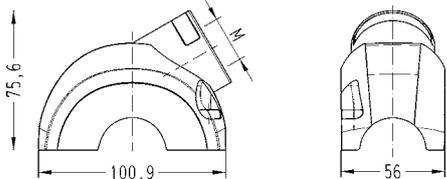
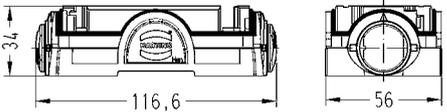
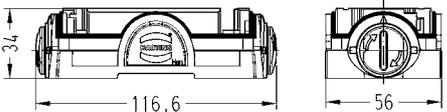
Identification	Cable entry	Part number	Drawing Dimensions in mm
<p>Han-Yellock®, Carrier hood, push button, slot</p> 		11 12 600 0110	
<p>Han-Yellock®, Protection covers for carrier hoods</p> 		11 12 600 5451	

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	

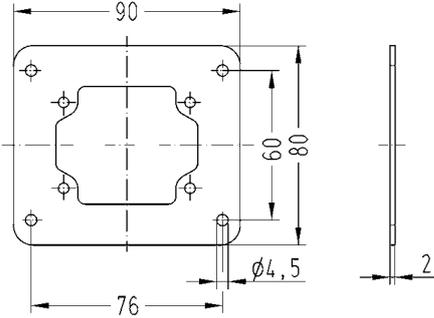
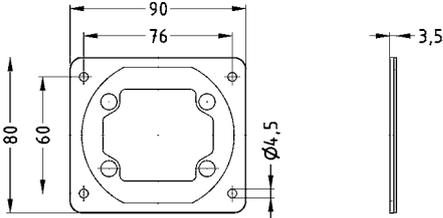
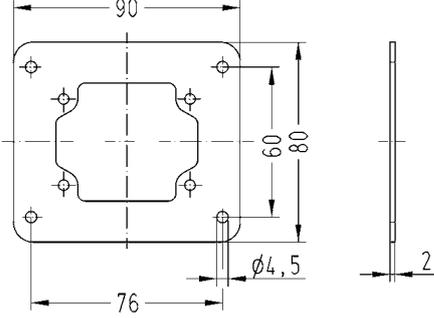
Han-Yellock

Metal hoods/housings for outdoor applications

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

Technical characteristics

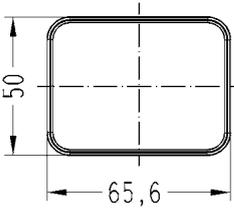
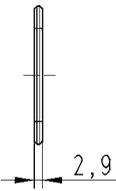
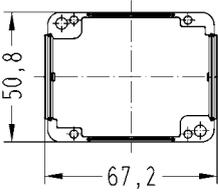
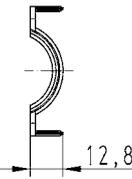
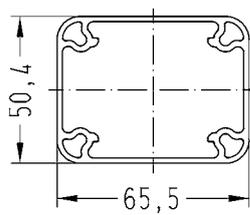
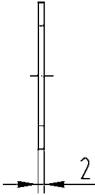
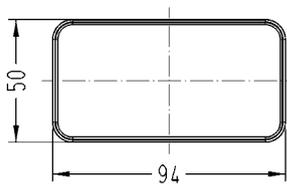
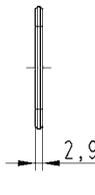
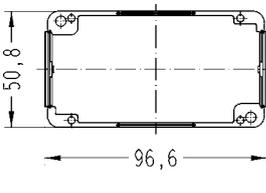
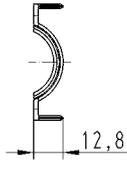
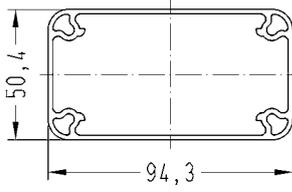
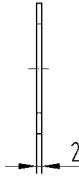
Material (seal) NBR

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

Han-Yellock

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	

Han-Yellock

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		

Han-Yellock

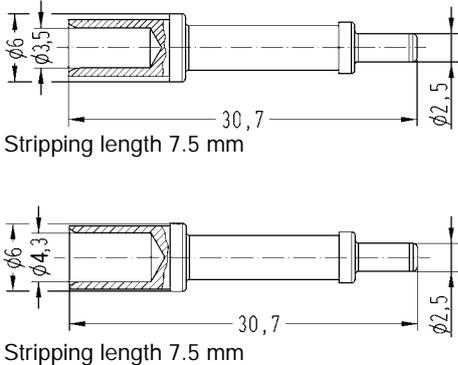
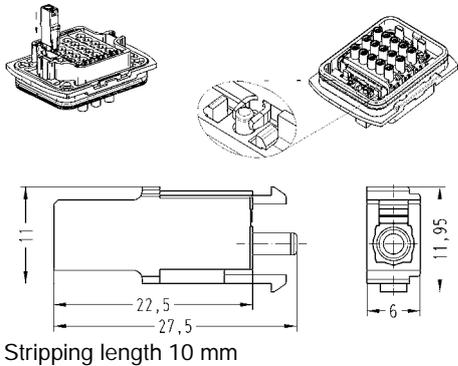
Identification	Size	Part number	Drawing Dimensions in mm
Coding element, plastic Range of delivery: 8 pieces per frame		11 00 000 9501	
Fixing screws	M3	11 20 003 9903	
Identification strip Range of delivery: 500 pieces on a reel		11 00 000 9601	
Shielding frame, for Han-Yellock® 30, for cable clamp 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 (mm ²)	Part number		Drawing Dimensions in mm
		male	female	
Han-Yellock [®] , Crimp terminal, PE contact 	6 10	11 00 000 9509 11 00 000 9510		 <p>Stripping length 7.5 mm</p> <p>Stripping length 7.5 mm</p>
 Han-Quick Lock [®] Han-Yellock [®] , PE contact chamber 	0.5–2.5	11 05 001 2601	11 05 001 2601	 <p>Stripping length 10 mm</p>

Han-Yellock



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

Photo courtesy: KUKA Roboter GmbH