Contents

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.

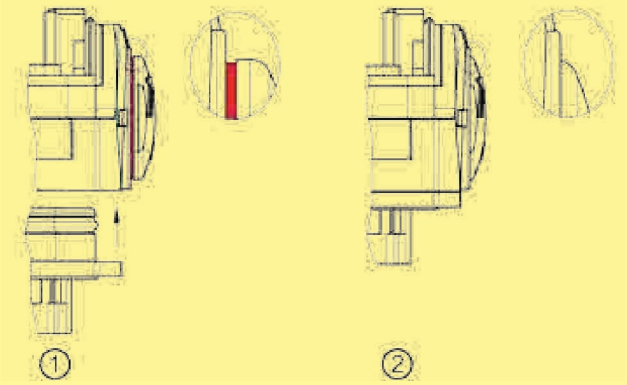
The Locking

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:

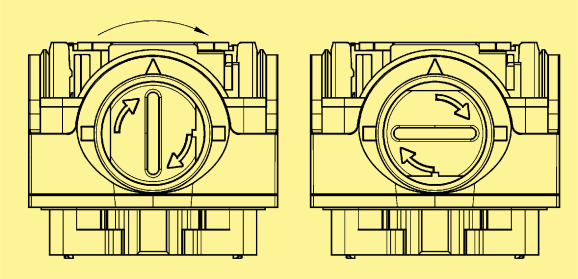
- Easy handling
- Resistance to vibrations and shock
- Protected against accidental opening
- Compact, space-saving design

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.



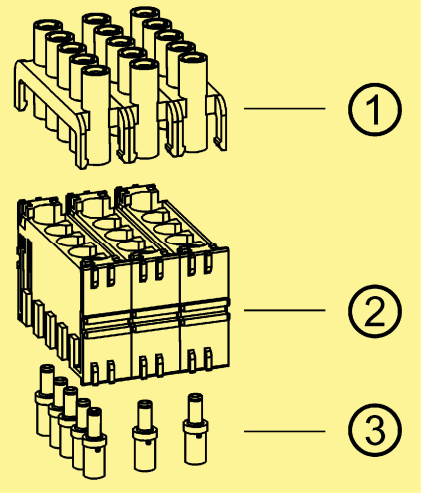
The press button can be set back to its visually open position only after the button is turned back 90°. It is then possible to release the two housing halves by pressing the snap-in button.

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

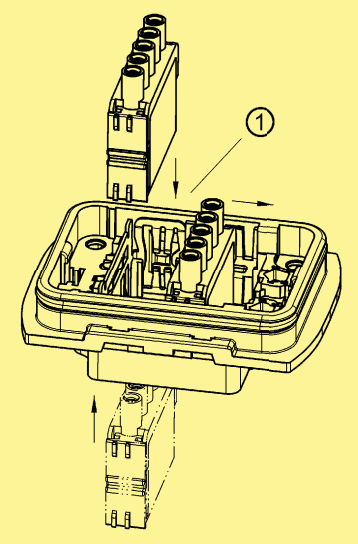
This concept allows a 1:1 wire to wire arrangement and in additon the use of bridges. Two to five contacts can be arranged.

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.

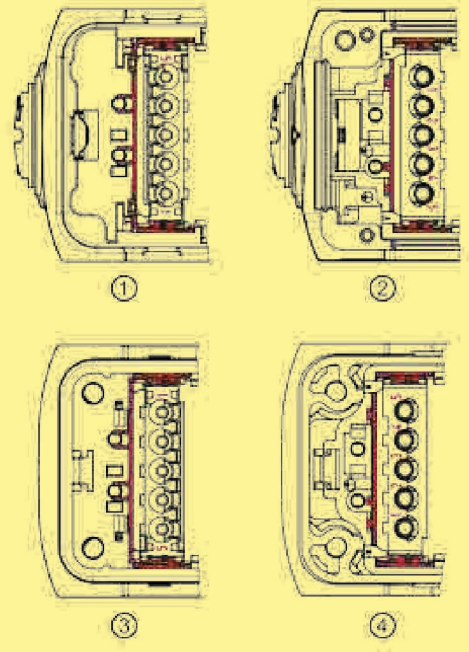
Inserting the module into the hoods/housing

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



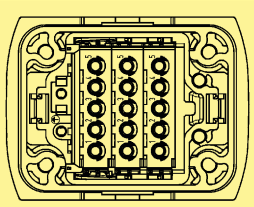
① plug-in position „A“

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



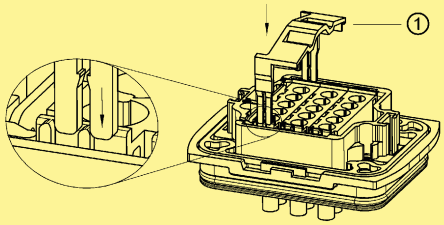
① Carrier hood, mating side
② Carrier hood, connection side
③ Housing, bulkhead mounting, mating side
④ Housing, bulkhead mounting, connection side

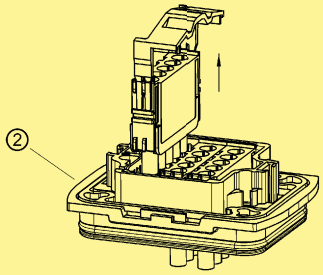
- A distinct click can be heard when the module snaps into position. It is then pushed along the rail to its final position. The plug-in slots must always be completely filled.



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.

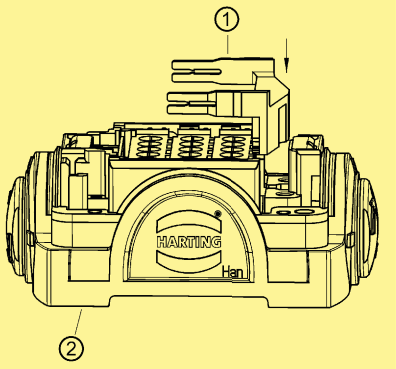




① removal tool
② housing, bulkhead mounting

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

The removal tool can be stored on the carrier hood:



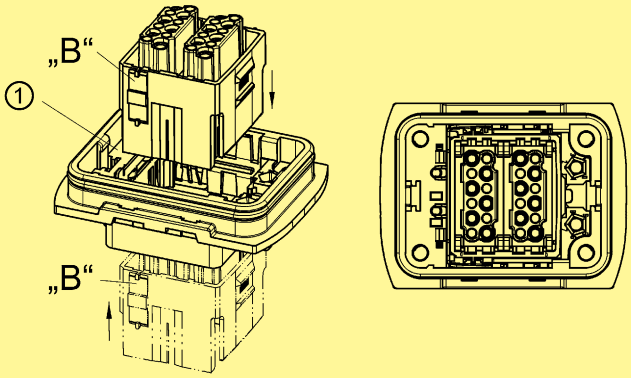
① removal tool
② carrier hood

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:

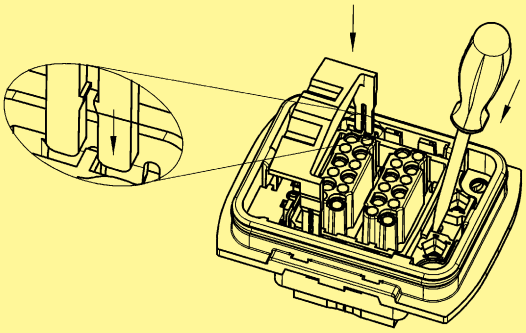
- The adapter frame can be snapped into the housing, bulkhead mounting, on the termination side and the mating side (refer to the illustration).
- The lateral plastic tabs („B“) are pressed into the metal clamps on the housing.
- The adapter frame then snaps in with a distinctly audible click.

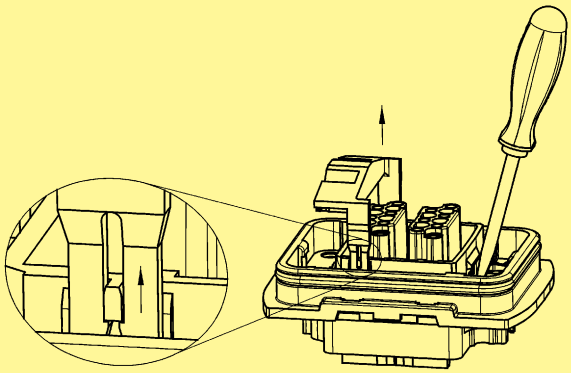


① metal clamp

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

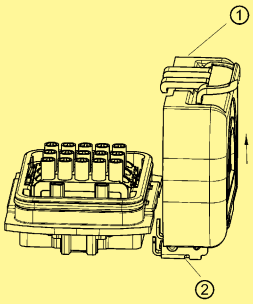
Protection cover function

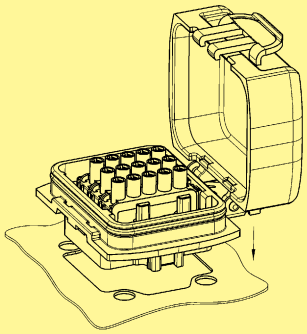
To protect the insert against dust and water it is possible to use a Han-*Yellock*® protection cover.

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.





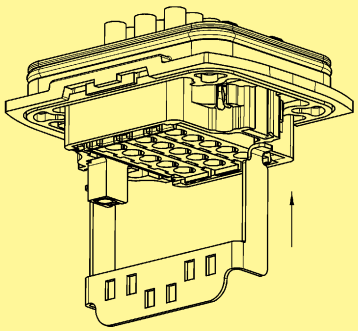
① cover
② bearing pedestal

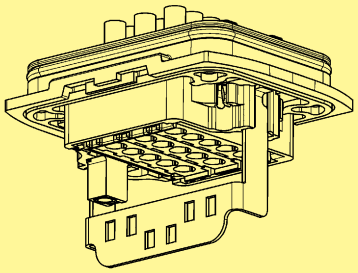
Han-*Yellock*® Ground terminal

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.

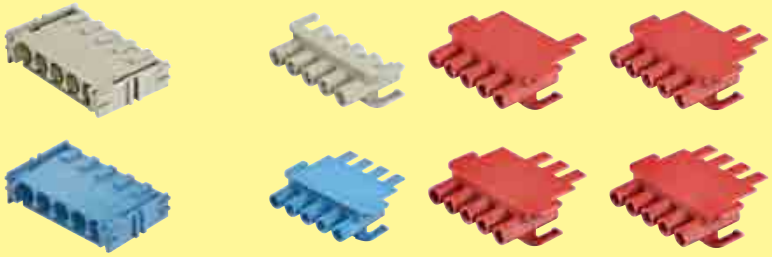




Han-*Yellock*® Hoods/Housings

see page 25.08 onwards

Han-*Yellock*® Modules

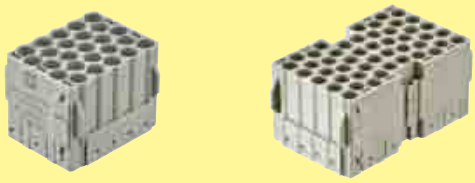


see page 25.22 onwards

Han-*Yellock*® Adapter frames

see page 25.28 onwards

Han-*Yellock*® Monoblocks



see page 25.32 onwards

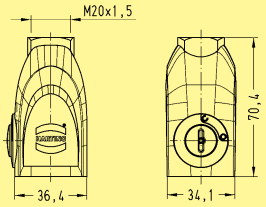
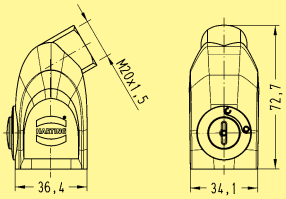
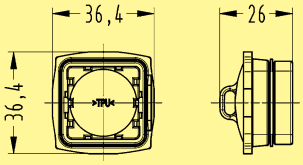
Features

- Compatible with all inserts size Han® 3 A
- High robustness via an internal locking mechanism
- Optimal EMC properties
- High quality industrial design
- With entry for M20 or M25 cable glands

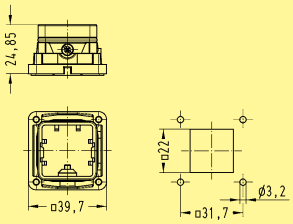
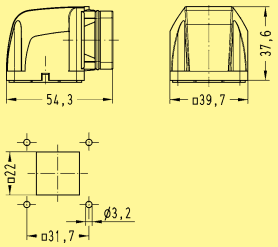
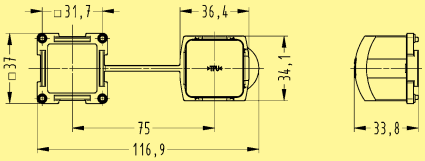
Technical characteristics

Material	zinc die-cast
Surface	
Hood	Epoxy powder paint
Housings bulkhead mounting	zinc passivation
Locking element	PA / stainless steel
Limiting temperatures	-40 °C ... +125 °C
Un-/Locking temperatures	-10 °C ... +85 °C
Degree of protection acc. to DIN EN 60 529	
for coupled connector	IP 65 / IP 67
Tightening torque	
M3 fixing screw	1 Nm

Hoods Han-*Yellock*®

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Hood top entry Han-*Yellock*® 10 	11 20 003 1400 11 20 003 1401	M20 M25		
Hood angled entry Han-*Yellock*® 10 	11 20 003 1600 11 20 003 1601	M20 M25		
Protection cover for hoods 	11 20 003 5456			

Housings Han-*Yellock*®

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Housings bulkhead mounting				
Han-*Yellock*® 10 	11 20 003 0300			
Han-*Yellock*® 10 	11 20 003 0800			
Protection cover for housings bulkhead mounting 	11 20 003 5406			

Stock items in bold type

Summary Han® 3 A

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

Summary Han® 3 A

Series	Han® Q 2/0	Han® Q 2/0	Han® Q 5/0	Han® Q 5/0 Quick Lock
Number of contacts	2 + ⏚	2 + ⏚	5 + ⏚	5 + ⏚
Termination	Axial screw terminal 	Crimp terminal 	Crimp terminal 	Quick Lock termination 
Rated current Rated voltage Wire gauge	40 A 830 V 4 ... 10 mm²	40 A 830 V 1,5 ... 10 mm²	16 A 230 / 400 V 0,14 ... 2,5 mm²	16 A 230 / 400 V 0,5 ... 2,5 mm²
Male insert (M)	09 12 002 2652	09 12 002 3052	09 12 005 3001	09 12 005 2633
Female insert (F)	09 12 002 2752	09 12 002 3152	09 12 005 3101	09 12 005 2733

Series	Han® Q 7/0	Han® Q 12/0		
Number of contacts	7 + ⏚	12 + ⏚		
Termination	Crimp terminal 	Crimp termination/ Quick Lock termination 		
Rated current Rated voltage Wire gauge	10 A 400 V 0,14 ... 2,5 mm²	10 A 400 V 0,14 ... 2,5 mm²		
Male insert (M)	09 12 007 3001	09 12 012 3001		
Female insert (F)	09 12 007 3101	09 12 012 3101		

Series	Staf® 6	Staf® 6		
Number of contacts	6	6		
Termination	Solder terminal 	Screw terminal 		
Rated current Rated voltage Wire gauge	10 A ~ 25 V / – 60 V 2,5 mm²	10 A ~ 25 V / – 60 V 1,5 mm²		
Male insert (F)	09 70 006 2615	09 70 006 2616		
Female Insert (M)	09 70 006 2812	09 70 006 2813		

Summary Han® 3 A

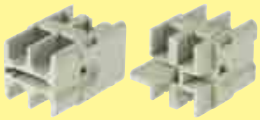
Series	Han-Brid® Cu	Han-Brid® Cu	Han-Brid® Cu	Han-Brid® Cu
Number of contacts	4 / 2	4 / 2	4 / 2	4 / 2
Termination	Crimp terminal / IDC Insulation displacement terminal	Crimp terminal / Crimp terminal	Cage-clamp terminal / Cage-clamp terminal	Crimp terminal / Crimp terminal
				
Rated current Rated voltage Wire gauge	10 A 50 V 0.14 ... 2.5 mm²	10 A 50 V 0.14 ... 2.5 mm²	10 A 50 V 0.14 ... 2.5 mm²	10 A 50 V 0.14 ... 2.5 mm²
Male insert (M)	09 12 006 2611	09 12 006 3001	09 12 006 2695	09 12 006 2694
Female insert (F)	09 12 006 2701	09 12 006 3111	09 12 006 2795	09 12 006 2794

Series	Han-Brid® USB	Han-Brid® FireWire	Han-Brid® RJ45 C	
Number of contacts	2 / 4	2 / 6	2 / 4	
Termination	Crimp terminal / USB 2.0	Crimp terminal / IEEE 1394	Crimp terminal / RJ45	
				
Rated current Rated voltage Wire gauge	1 A 50 V 0.14 ... 2.5 mm²	1 A 50 V 0.14 ... 2.5 mm²	10 A 24 V 0.14 ... 2.5 mm²	
Male insert (M)	09 12 001 2794	09 12 001 2774	09 12 003 3011	
Female insert (F)	09 12 001 3091	09 12 001 3071		

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

Summary Han® 3 A

Series	Han-Brid® RJ45 C	Han-Brid® F.O.	Han-Brid® F.O.	Han-Brid® F.O.
Number of contacts	2 / 4	4 / 2	4 / 2	4 / 2
Termination	Crimp terminal / RJ45 	Crimp terminal / F.O. 	Crimp terminal / F.O. 	Crimp terminal / F.O. 
Rated current Rated voltage Wire gauge	10 A 24 V 0.14 ... 2.5 mm²	10 A 50 V 0.14 ... 2.5 mm²	10 A 50 V 0.14 ... 2.5 mm²	10 A 50 V 0.14 ... 2.5 mm²
Male insert (M)			09 12 004 2611	09 12 004 2601
Female insert (F)	09 12 003 2770	09 12 004 2711		

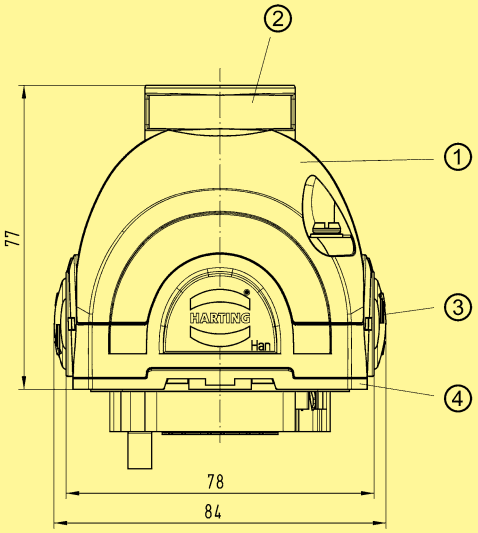
Series	Han® 4 A SC
Number of contacts	4
Termination	for F.O. 
Rated current Rated voltage Wire gauge	
Male insert (M)	09 20 004 4701
Female insert (F)	09 20 004 4711

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

Source: KUKA Roboter GmbH

Features

- Two-part hoods for easy wiring and testing
- High robustness via an internal locking mechanism
- Earthed contacts PE in crimped or Quick Lock termination technique
- Protection cover retrofit on housing side



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

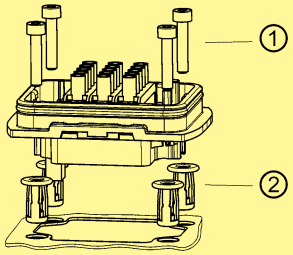
Technical characteristics

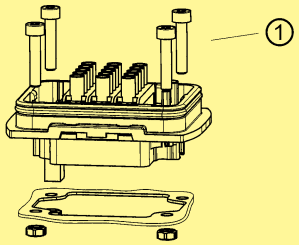
Shells and Housings, surface mounting

Material	aluminium die-cast
Surface	Epoxy powder paint
Locking element	stainless steel
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529	
for coupled connector	IP 65 / IP 67
Tightening torque	
M4 fixing screw	1.2 Nm ... 2,0 Nm

Carrier hoods and Housings, bulkhead mounting

Number of Han-*Yellock*® modules	
Han-*Yellock*® 30	3
Han-*Yellock*® 60	6
Material	zinc die-cast
Surface	zinc passivation
Locking element	PA / stainless steel
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Un-/Locking temperatures	-10 °C ... +85 °C
Degree of protection acc. to DIN EN 60 529	
for coupled connector	IP 65 / IP 67
Mechanical working life	
- mating cycles	< 500
PE contact	
wire gauge	≤ 4 mm²
Tightening torque	
M4 fixing screw	1 Nm
panel fastener	2.3 Nm



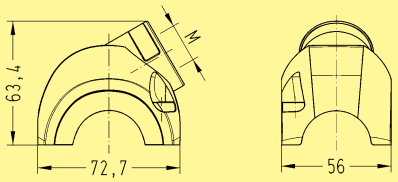
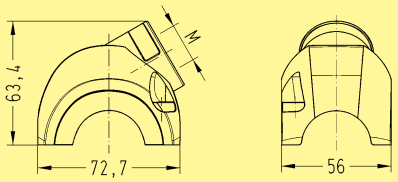
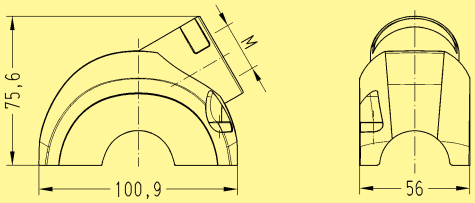
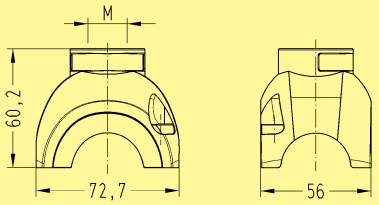
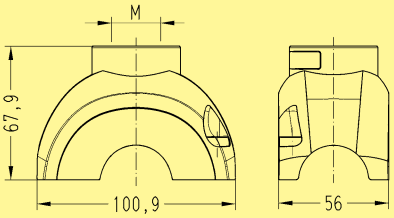
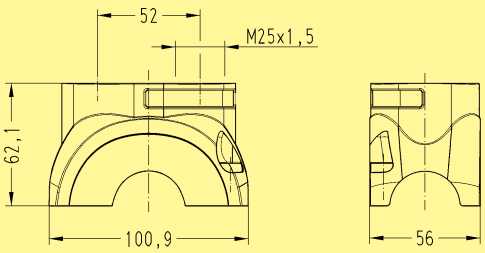


① M4 fixing screw (screw length > 20 mm)
② panel fastener

Protection covers

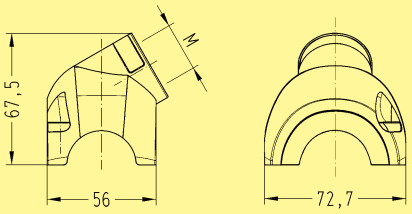
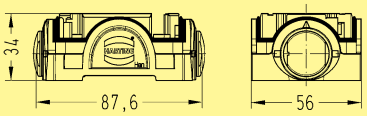
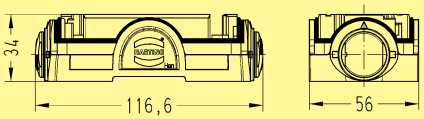
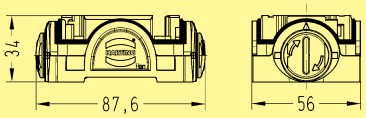
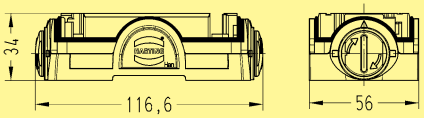
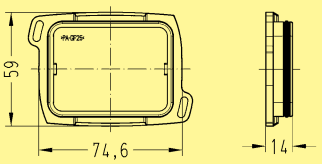
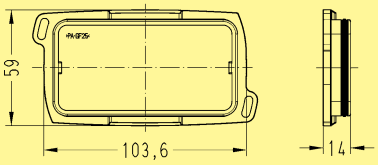
Material	PA
Hoods/Housings seal	NBR
Degree of protection acc. to DIN EN 60 529	
for coupled connector	IP 65 / IP 67
Flammability acc. to UL 94	V 0

Hoods Han-*Yellock*®

Identification		Part number	Cable entry	Drawing	Dimensions in mm
Shell side-entry					
Han-*Yellock*® 30		**11 12 300 1500**	M20		
		11 12 300 1501	M25		
		11 12 300 1502	M32		
Han-*Yellock*® 30		11 12 300 1510	M20		
Han-*Yellock*® 60		**11 12 600 1501**	M25		
		11 12 600 1502	M32		
		11 12 600 1503	M40		
Shell top entry					
Han-*Yellock*® 30		**11 12 300 1400**	M20		
		11 12 300 1401	M25		
		11 12 300 1402	M32		
Han-*Yellock*® 60		**11 12 600 1401**	M25		
		11 12 600 1402	M32		
		11 12 600 1403	M40		
Han-*Yellock*® 60		**11 12 600 1411**	2x M25		
		11 12 600 1415	1x M20 1x M25		

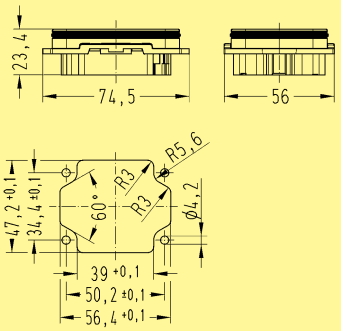
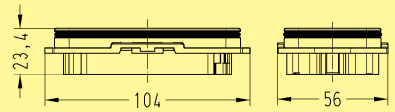
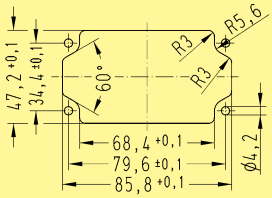
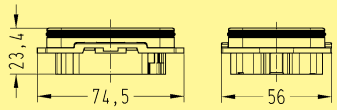
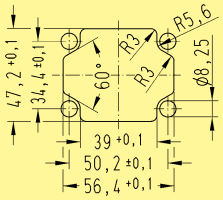
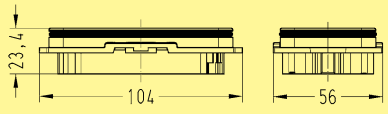
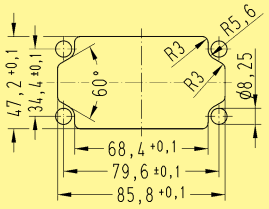
Stock items in bold type

Hoods Han-*Yellock*®

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Shell angled entry Han-*Yellock*® 30	**11 12 300 1600** **11 12 300 1601** **11 12 300 1602**	M20 M25 M32		
Carrier hood plain push button Han-*Yellock*® 30	**11 12 300 0100**			
Han-*Yellock*® 60	**11 12 600 0100**			
Carrier hood push button, slot Han-*Yellock*® 30	**11 12 300 0110**			
Han-*Yellock*® 60	**11 12 600 0110**			
Protection cover for carrier hoods Han-*Yellock*® 30	**11 12 300 5451**			
Han-*Yellock*® 60	**11 12 600 5451**			

Stock items in bold type

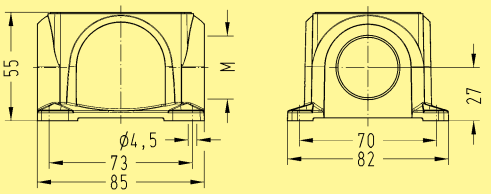
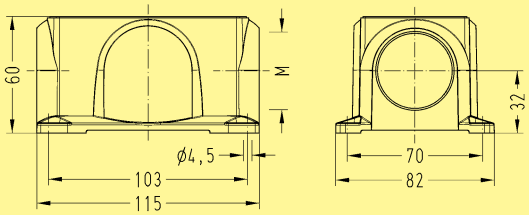
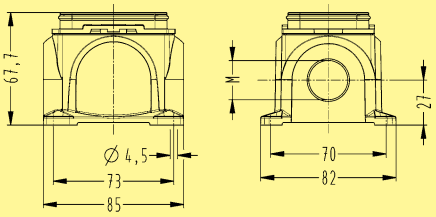
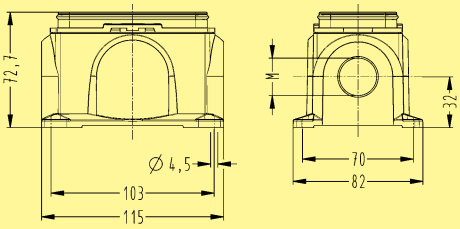
Housings Han-*Yellock*®

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Housings bulkhead mounting				
Han-*Yellock*® 30	11 12 300 0301			
				
				
Han-*Yellock*® 60	11 12 600 0301			
				
Housings bulkhead mounting Set consists of Han-*Yellock*® housing, bulkhead mounting, and panel fastener *				
Han-*Yellock*® 30	11 12 300 0302			
				
				
Han-*Yellock*® 60	11 12 600 0302			
				

* screws for using with panel fastener M4x20 or longer

Stock items in bold type

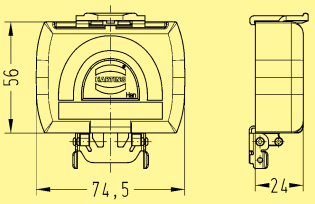
Housings Han-*Yellock*®

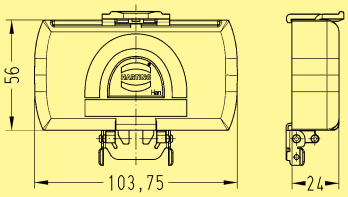
Identification	Part number	Cable entry	Drawing	Dimensions in mm
Housings surface mounting				
Han-*Yellock*® 30 	11 12 300 1200	M20		
	11 12 300 1201	M25		
	11 12 300 1202	M32		
	11 12 300 1204	2x M20		
	11 12 300 1205	2x M25		
	11 12 300 1206	2x M32		
Han-*Yellock*® 60 	11 12 600 1201	M25		
	11 12 600 1202	M32		
	11 12 600 1203	M40		
	11 12 600 1205	2x M25		
	11 12 600 1206	2x M32		
	11 12 600 1207	2x M40		
Housings surface mounting incl. Housings bulkhead mounting				
Han-*Yellock*® 30 	11 12 300 1210	M20		
	11 12 300 1211	M25		
	11 12 300 1212	M32		
	11 12 300 1214	2x M20		
	11 12 300 1215	2x M25		
	11 12 300 1216	2x M32		
Han-*Yellock*® 60 	11 12 600 1211	M25		
	11 12 600 1212	M32		
	11 12 600 1213	M40		
	11 12 600 1215	2x M25		
	11 12 600 1216	2x M32		
	11 12 600 1217	2x M40		

Stock items in bold type

Housings Han-*Yellock*®

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Protection cover for housings, bulkhead mounting				
Han-*Yellock*® 30	11 12 300 5401			
Han-*Yellock*® 60	11 12 600 5401			

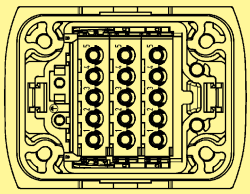




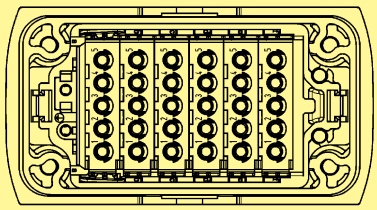
Features

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

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



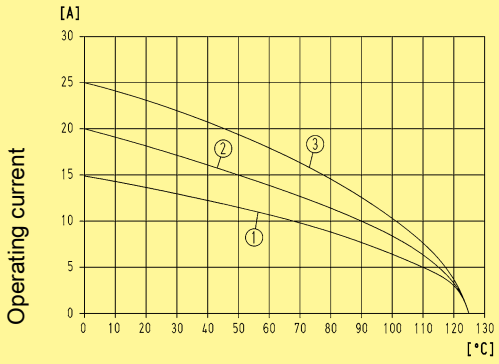
Placement for Han-*Yellock*® 60
with 6 Han-*Yellock*® modules



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 according to DIN EN 60 512-5-2



Ambient temperature

① wire gauge: 1.5 mm²

② wire gauge: 2.5 mm²

③ wire gauge: 4 mm²

for connector with 3 Han-*Yellock*® modules, fully loaded (multiplier 1:1)

Technical characteristics

Specifications	DIN EN 60 664-1 DIN EN 61 984

Modules

Electrical data	
acc. to EN 61 984	**20 A 500 V 6 kV 3**
Rated current	20 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	20 A 690 V 8 kV 2
Insulation resistance	≥ 10^{10} Ω
Material	PC
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥500

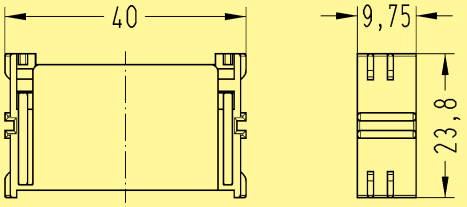
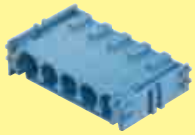
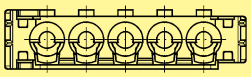
Contacts

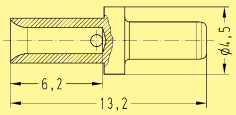
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	≤ 2 mΩ
Crimp terminal	
- Wire gauge	0.14 ... 4 mm²
- AWG	26 ... 12
Stripping length	6.5 mm

Tools	see chapter 99

Number of contacts

5

Identification	Part number	Drawing	Dimensions in mm
Han-*Yellock*® module			
	**11 05 105 3001**		
	**11 05 105 3011**		

Identification	Wire gauge (mm²)	Part number	Drawing	Dimensions in mm
Han-*Yellock*® crimp contacts Male contact Han-*Yellock*® TC20				
silver plated	0.14-0.37	**11 05 000 6101**		
	0.5	**11 05 000 6102**		
	0.75	**11 05 000 6103**		
	1	**11 05 000 6104**		
	1.5	**11 05 000 6105**		
	2.5	**11 05 000 6106**		
	3	**11 05 000 6107**		
	4	**11 05 000 6108**		
				
gold plated	0.14-0.37	**11 05 000 6121**		
	0.5	**11 05 000 6122**		
	0.75	**11 05 000 6123**		
	1	**11 05 000 6124**		
	1.5	**11 05 000 6125**		
	2.5	**11 05 000 6126**		
	3	**11 05 000 6127**		
	4	**11 05 000 6128**		
				
Removal tool for crimp contacts		**09 99 000 0319**		

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

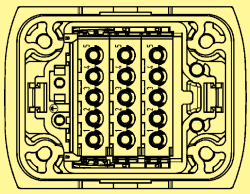
Stock items in bold type

Features

- Snap-in assembly from mating side and from termination side
- Bus bar within bridge attachements
- Finger safe design
- Fast and tool-less assembly
- Compatible with Han-*Yellock*® modules with crimp termination

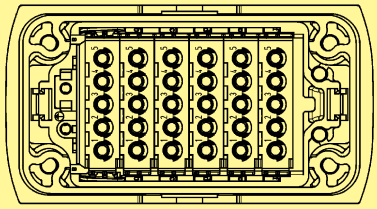
Placement for Han-*Yellock*® 30

with 3 Han-*Yellock*® modules



Placement for Han-*Yellock*® 60

with 6 Han-*Yellock*® modules



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 according to DIN EN 60 512-5-2

Ambient temperature

① wire gauge: 1.5 mm²

② wire gauge: 2.5 mm²

for connector with 3 Han-*Yellock*® modules, fully loaded (multiplier 1:1)

Technical characteristics

Specifications	DIN EN 60 664-1 DIN EN 61 984

Quick Lock Modules

blue slide	
Electrical data	
acc. to EN 61 984	**20 A 500 V 6 kV 3**
Rated current	20 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	20 A 690 V 8 kV 2
black slide	
Electrical data	
acc. to EN 61 984	**10 A 500 V 6 kV 3**
Rated current	10 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	10 A 690 V 8 kV 2
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥500

Contacts

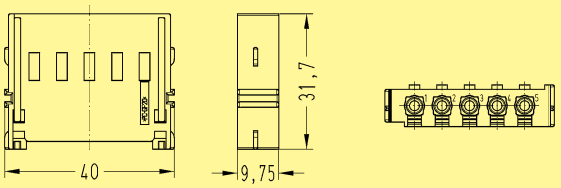
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
Contact resistance	≤ 2 mΩ
Quick Lock termination	
blue slide	
- Wire gauge	0.5 ... 2.5 mm²
- AWG	20 ... 14
- Stripping length	10 mm
- Max. insulation diameter	3.6 mm
black slide	
- Wire gauge	0.25 ... 1.5 mm²
- AWG	23 ... 16
- Stripping length	10 mm
- Max. insulation diameter	3 mm

PE contact

Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
Contact resistance	≤ 2 mΩ
Crimp terminal	
- Wire gauge	6 mm² / 10 mm²
- AWG	10 / 8
Stripping length	7.5 mm
Suitable crimping tool	09 99 000 0377

Number of contacts

5

Identification	Part number	Drawing	Dimensions in mm
Han-*Yellock*® Quick Lock module Han-**Quick Lock**® blue slide 0.5 ... 2.5 mm² 	**11 05 105 2633**		
black slide 0.25 ... 1.5 mm² 	**11 05 105 2634**		

Stock items in bold type

Features

- Visible bridge position from mating side and from termination side
- Multiplier can be placed on the housing side or on the cable side
- Bus bar functionality for 1 up to 5 contacts
- Fast and easy exchange

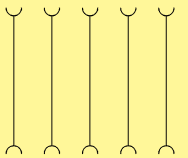
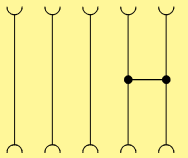
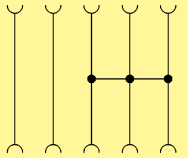
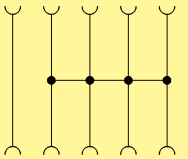
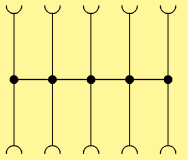
Technical characteristics

Specifications

DIN EN 60 664-1
DIN EN 61 984

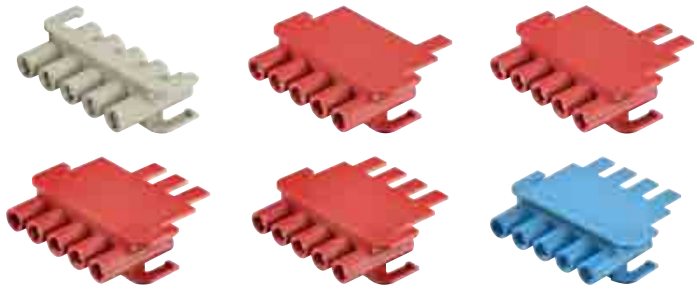
Multiplier

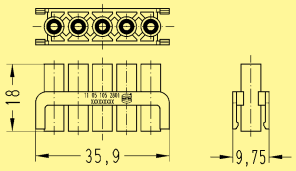
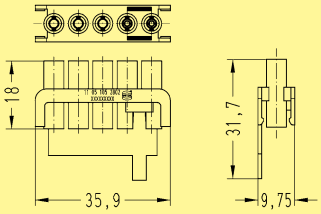
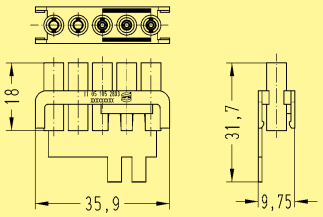
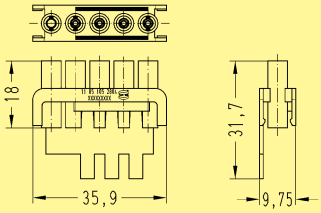
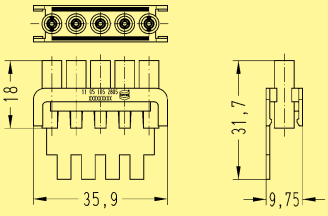
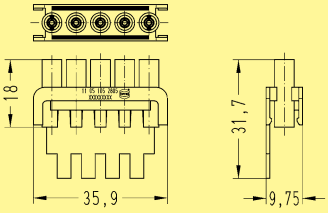
Number of contacts	5
Material	polycarbonate
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥500

	Bus bar contacts	Single contacts	Circuit diagram
Multiplier 1:1	0	5	
Multiplier 2:3	2	3	
Multiplier 3:2	3	2	
Multiplier 4:1	4	1	
Multiplier 5:0	5	0	

Number of contacts

5



Identification	Part number	Drawing	Dimensions in mm
Han-*Yellock*® Multiplier			
Multiplier 1:1 	**11 05 105 2801**		
Multiplier 2:3 	**11 05 105 2802**		
Multiplier 3:2 	**11 05 105 2803**		
Multiplier 4:1 	**11 05 105 2804**		
Multiplier 5:0 	**11 05 105 2805**		
Multiplier 5:0 	**11 05 105 2815**		

Stock items in bold type

Features

- Flexible design of interfaces with the aid of Han-Modular®
- Snap-in assembly from mating side and from termination side for Han-*Yellock*® 30 and 60
- Removal from mating side and from termination side possible for Han-*Yellock*® 30 and 60
- Fast and tool-less assembly
- Mounting of adapter frame Han-*Yellock*® 20 from termination side only

Technical characteristics

Specifications	DIN EN 60 664-1 DIN EN 61 984

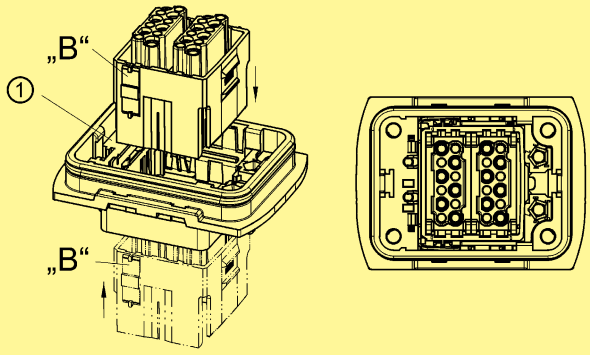
Adapter frames

Number of modules	1 / 2 / 4
Material	PC
Flammability acc. to UL 94	V 0

		Han-*Yellock*® Hood/Housing				
	Quantity	Han-*Yellock*® 30	Han-*Yellock*® 30	Han-*Yellock*® 60	Han-*Yellock*® 60	Han-*Yellock*® 60
Combinations	Han-*Yellock*® 20 Adapter frame	1		2	1	
	Han-*Yellock*® 30 Adapter frame		1			
	Han-*Yellock*® 60 Adapter frame					1
	Han-*Yellock*® Module	1		2	4	

Assembly

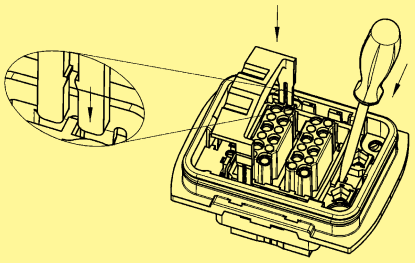
- The adapter frame can be snapped into the housing, bulkhead mounting, on the termination side and the mating side (refer to the illustration).
- The lateral plastic tabs („B“) are pressed into the metal clamps on the housing.
- The adapter frame then snaps in with a distinctly audible click.

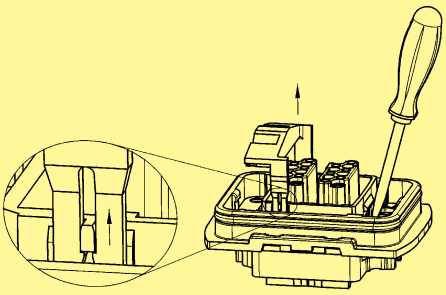


① metal clamp

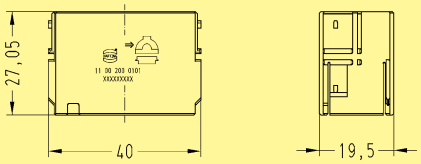
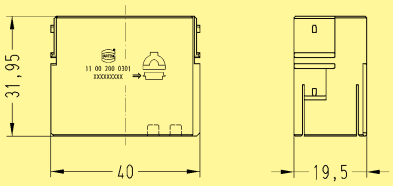
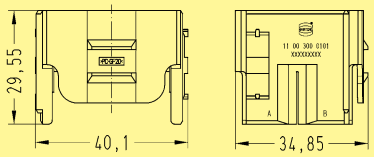
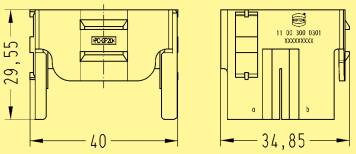
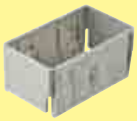
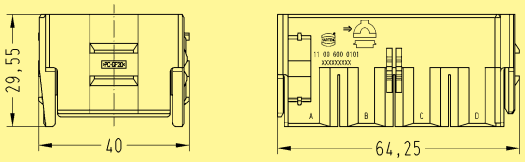
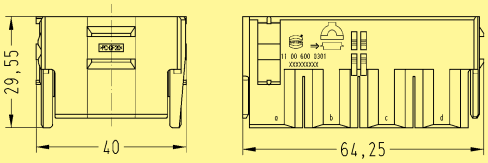
Removal

- The 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*® Adapter frames

Identification	Part number	Drawing	Dimensions in mm
Han-*Yellock*® 20 Adapter frames[1)2)]			
for carrier hoods 	**11 00 200 0101**		
for housings, bulkhead mounting 	**11 00 200 0301**		
Han-*Yellock*® 30 Adapter frames[2)]			
for carrier hoods 	**11 00 300 0101**		
for housings, bulkhead mounting 	**11 00 300 0301**		
Han-*Yellock*® 60 Adapter frames[2)]			
for carrier hoods 	**11 00 600 0101**		
for housings, bulkhead mounting 	**11 00 600 0301**		

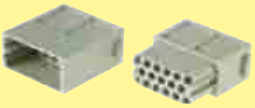
[1)] mounting from termination side only
[2)] Removal tool for modules see page 99.07

Stock items in bold type

Summary Han-Modular®

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

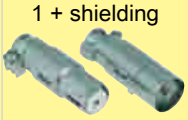
Han-*Yellock*

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

Summary Han-Modular®

Series	Han® USB module	Han® RJ45 module	Han® GigaBit module	
Number of contacts	4	8	8	
Modules	USB 2.0	Ethernet Cat. 6	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	Han E® Coax contact 50 Ω 1 + shielding	F.O. contact	Coaxial contact
						
			75 Ω	50 Ω	Multimode F.O. HCS®*/PCF F.O. 1 mm POF	50 Ω RG 174 75 Ω RG 179 50 Ω RG 58

for more technical details see chapter 06

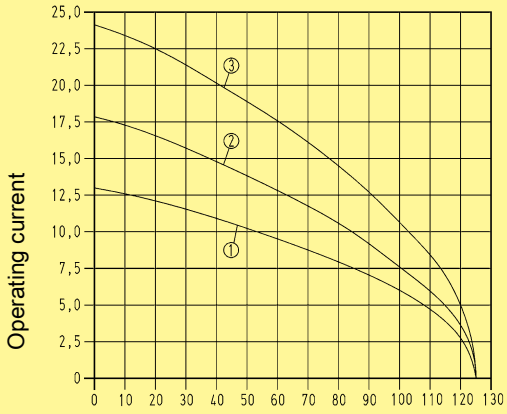
Features

- Snap-in assembly from mating side and from termination side
- Wiring with male and female contacts
- Finger safe design
- Fast and tool-less assembly

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 according to DIN EN 60 512-5-2



① wire gauge: 1.5 mm²

② wire gauge: 2.5 mm²

③ wire gauge: 4 mm²

Technical characteristics

Specifications	DIN EN 60 664-1 DIN EN 61 984

Monoblocks

Electrical data	
acc. to EN 61 984	**16 A 500 V 6 kV 3**
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 690 V 8 kV 2
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥500

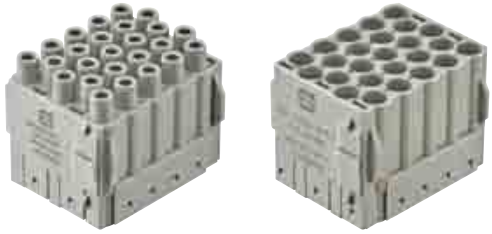
Contacts

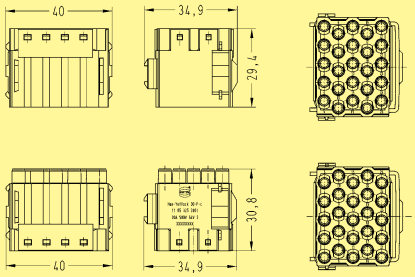
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	≤ 2 mΩ
Crimp terminal	
- Wire gauge	0.14 ... 4 mm²
- AWG	26 ... 12
Stripping length	6.5 mm

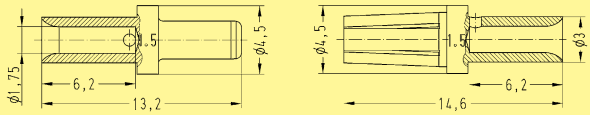
Tools	see chapter 99

Number of contacts

25



Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Han-*Yellock*® Monoblock 30 Order crimp contacts separately suitable for hoods/housings size 30 ATTENTION! It is not possible to use 2 monoblocks 30 in the Han-*Yellock*® 60 series!	**11 05 325 3001**	**11 05 325 3101**		

Identification	Wire gauge (mm²)	Part number Male contact	Part number Female contact	Drawing	Dimensions in mm
Han-*Yellock*® crimp contacts Han-*Yellock*® TC20					
silver plated	0.14-0.37	**11 05 000 6101**	**11 05 000 6201**		
	0.5	**11 05 000 6102**	**11 05 000 6202**		
	0.75	**11 05 000 6103**	**11 05 000 6203**		
	1	**11 05 000 6104**	**11 05 000 6204**		
	1.5	**11 05 000 6105**	**11 05 000 6205**		
	2.5	**11 05 000 6106**	**11 05 000 6206**		
	3	**11 05 000 6107**	**11 05 000 6207**		
	4	**11 05 000 6108**	**11 05 000 6208**		
gold plated	0.14-0.37	**11 05 000 6121**	**11 05 000 6221**		
	0.5	**11 05 000 6122**	**11 05 000 6222**		
	0.75	**11 05 000 6123**	**11 05 000 6223**		
	1	**11 05 000 6124**	**11 05 000 6224**		
	1.5	**11 05 000 6125**	**11 05 000 6225**		
	2.5	**11 05 000 6126**	**11 05 000 6226**		
	3	**11 05 000 6127**	**11 05 000 6227**		
	4	**11 05 000 6128**	**11 05 000 6228**		

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

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing
Removal tool for crimp contacts	**09 99 000 0319**	**09 99 000 0319**	

Stock items in bold type

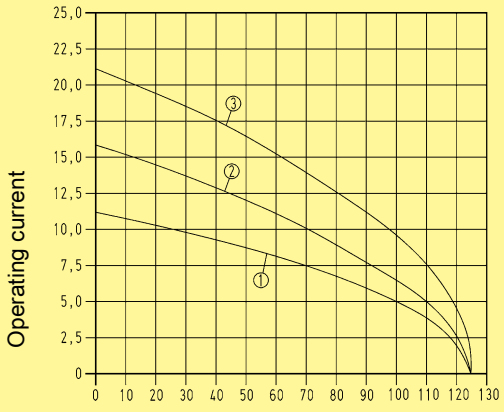
Features

- Snap-in assembly from mating side and from termination side
- Wiring with male and female contacts
- Finger safe design
- Fast and tool-less assembly

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 according to DIN EN 60 512-5-2



① wire gauge: 1.5 mm²

② wire gauge: 2.5 mm²

③ wire gauge: 4 mm²

Technical characteristics

Specifications	DIN EN 60 664-1 DIN EN 61 984

Monoblocks

Electrical data	
acc. to EN 61 984	**16 A 500 V 6 kV 3**
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 690 V 8 kV 2
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500

Contacts

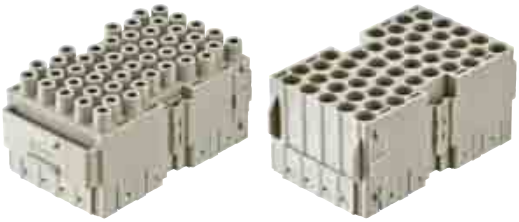
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	≤ 2 mΩ
Crimp terminal	
- Wire gauge	0.14 ... 4 mm²
- AWG	26 ... 12
Stripping length	6.5 mm

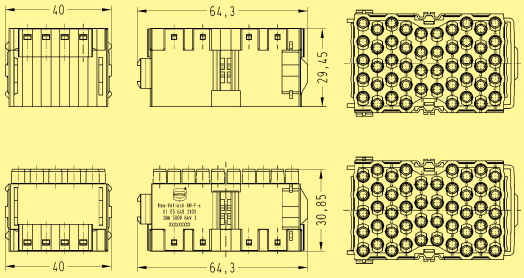
Tools

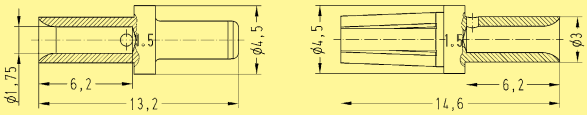
see chapter 99

Number of contacts

48



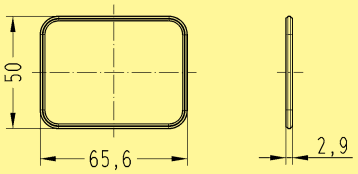
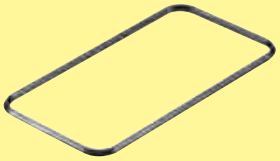
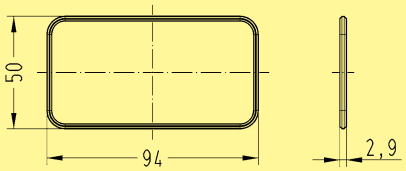
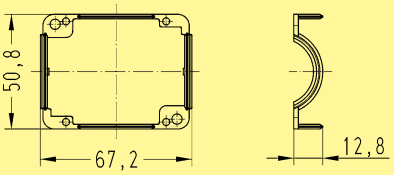
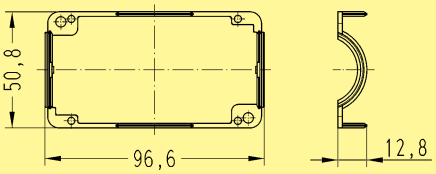
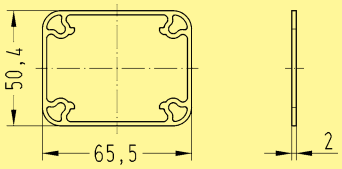
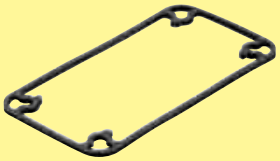
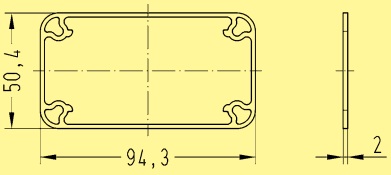
Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Han-*Yellock*® Monoblock 60 Order crimp contacts separately suitable for hoods/housings size 60	**11 05 648 3001**	**11 05 648 3101**		

Identification	Wire gauge (mm²)	Part number Male contact	Part number Female contact	Drawing	Dimensions in mm
Han-*Yellock*® crimp contacts Han-*Yellock*® TC20					
silver plated	0.14-0.37	**11 05 000 6101**	**11 05 000 6201**		
	0.5	**11 05 000 6102**	**11 05 000 6202**		
	0.75	**11 05 000 6103**	**11 05 000 6203**		
	1	**11 05 000 6104**	**11 05 000 6204**		
	1.5	**11 05 000 6105**	**11 05 000 6205**		
	2.5	**11 05 000 6106**	**11 05 000 6206**		
	3	**11 05 000 6107**	**11 05 000 6207**		
	4	**11 05 000 6108**	**11 05 000 6208**		
gold plated	0.14-0.37	**11 05 000 6121**	**11 05 000 6221**		
	0.5	**11 05 000 6122**	**11 05 000 6222**		
	0.75	**11 05 000 6123**	**11 05 000 6223**		
	1	**11 05 000 6124**	**11 05 000 6224**		
	1.5	**11 05 000 6125**	**11 05 000 6225**		
	2.5	**11 05 000 6126**	**11 05 000 6226**		
	3	**11 05 000 6127**	**11 05 000 6227**		
	4	**11 05 000 6128**	**11 05 000 6228**		

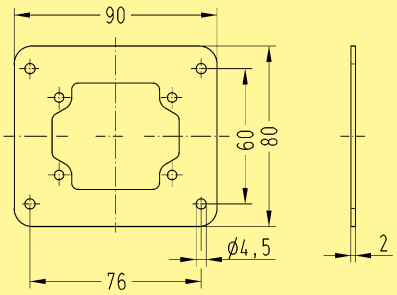
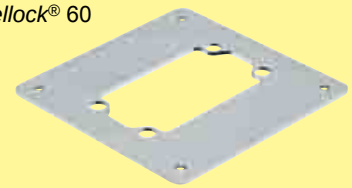
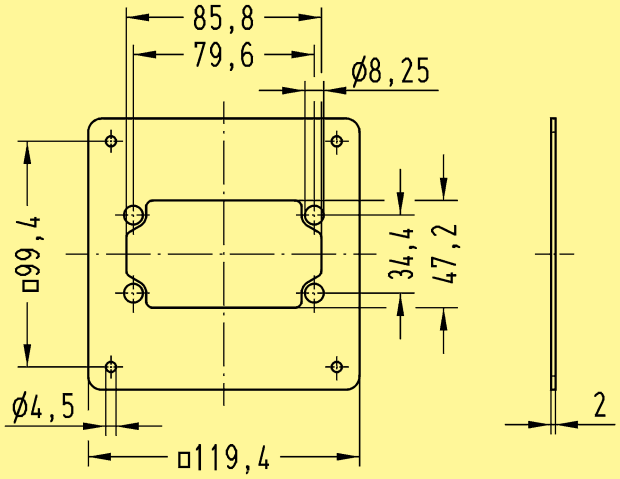
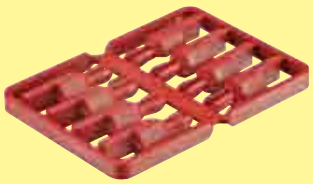
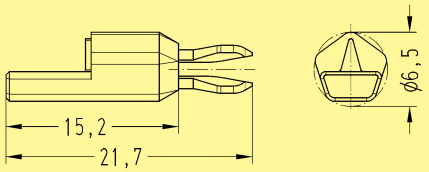
Wire gauge			Stripping length
0.14-0.37	mm²	AWG 26-22	6.5 mm
0.5	mm²	AWG 20	6.5 mm
0.75	mm²	AWG 18	6.5 mm
1	mm²	AWG 18	6.5 mm
1.5	mm²	AWG 16	6.5 mm
2.5	mm²	AWG 14	6.5 mm
3	mm²	AWG 12	6.5 mm
4	mm²	AWG 12	6.5 mm

Identification	Wire gauge (mm²)	Part number Male contact	Part number Female contact	Drawing	Dimensions in mm
Removal tool for crimp contacts		**09 99 000 0319**	**09 99 000 0319**		

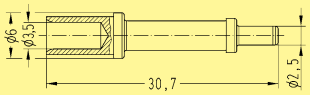
Stock items in bold type

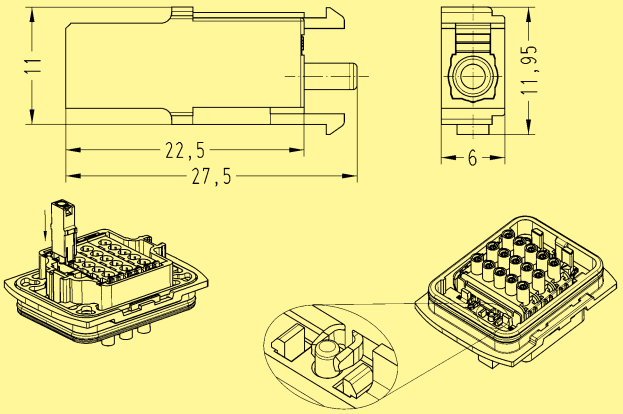
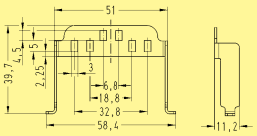
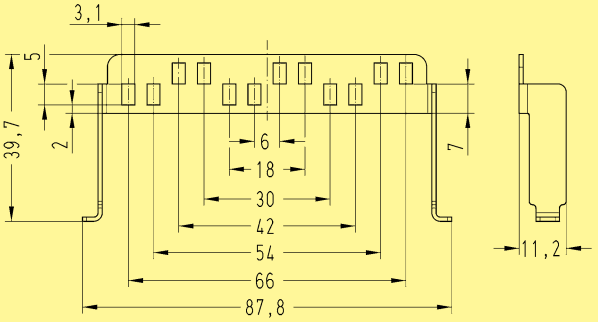
Identification	Part number	Drawing	Dimensions in mm
Han-*Yellock*® Profile seal			
for Han-*Yellock*® 30 	**11 00 300 9501**		
for Han-*Yellock*® 60 	**11 00 600 9501**		
Han-*Yellock*® Seal for carrier hoods			
for Han-*Yellock*® 30 	**11 00 300 9502**		
for Han-*Yellock*® 60 	**11 00 600 9502**		
Han-*Yellock*® Gasket			
for Han-*Yellock*® 30 	**11 00 300 9503**		
for Han-*Yellock*® 60 	**11 00 600 9503**		

Stock items in bold type

Identification	Part number	Drawing	Dimensions in mm
Han-*Yellock*® Adapter plate			
for Han-*Yellock*® 30 	**11 00 300 9601**		
circular 68 mm punch for Han-*Yellock*® panel cut out			
for Han-*Yellock*® 60 	**11 00 600 9601**		
Han-*Yellock*® Identification stickers 	**11 00 000 9601**		
Han-*Yellock*® Coding pins Set of 8 coding pins 	**11 00 000 9501**		

Stock items in bold type

Identification	Cable gauge (mm²)	Part number	Drawing	Dimensions in mm
Han-*Yellock*® PE contacts Male contact 	6 10	**11 00 000 9509** **11 00 000 9510**		

Identification	Part number	Drawing	Dimensions in mm
Han-*Yellock*® PE contact chamber with Quick Lock termination Wire gauge 0.5 ... 2.5 mm² AWG 20 ... 14 Stripping length 10 mm 	**11 05 001 2601**		
Han-*Yellock*® Ground terminal			
for Han-*Yellock*® 30 	11 12 300 5201		
for Han-*Yellock*® 60 	11 12 600 5201		

Stock items in bold type