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Features


General Description

The Han-Brid® series allows the connection of a data interface and a power supply in a single space saving connector. This means that it is now possible to provide data transmission and power to devices in a single bus structure. This hybrid connector family includes provision for connection of a max. 50 V, 10 A power supply together with a range of inserts for connection of a variety of data protocols and transmission medias:

- Han-Brid® F.O. for plastic (POF) or for HCS®* optical fibre
- Han-Brid® Cu for shielded twisted pair.
- Han-Brid® Quintax 3 A for shielded 4 wire bus systems (2 pair STP)
- Han-Brid® RJ45 C for Ethernet application
- Han-Brid® USB / Firewire for fast data transmission

Han-Brid® inserts fit into the standard plastic as well as metal hoods and housings with seal of the Han® 3 A series offering a degree of protection IP 65 according to DIN EN 60 529. For harsher environments Han® 3 HPR hoods and housings with a degree of protection of IP 68 can be used.

Power supply

- Han D® male and female with standard crimp contacts (Order crimp contacts separately)
- Rated current 10 A
- Rated voltage 50 V
- termination side 0.14 - 2.5 mm²
- Approval 

Han-Brid

* HCS® Hard Clad Silica (is registered trade mark of the SpecTran Corporation)

Data interfaces

Han-Brid® F.O.

- Is suitable for all HP Versatile Link (Horizontal Package) transmitters and receivers
- Data rates: Standard 12 Mbit/s, suitable for all common fieldbus systems
- Insert allows integration of HP standard contacts for POF and HCS®* fibres
- Temperature range -40 °C ... +70 °C

Han-Brid® Cu

- For termination of a shielded twisted pair
- Insert for 2x Han D® male or female contacts
- Connection of the shield by means of shielding plate and fixing clamps
- Connection of the device side can be realized either by a printed circuit board as a modular version or as part of the appliance PCB
- Insert for bulkhead mounted housing or the coupling housing are always equipped with a screening spring

Bus Terminator

- Active bus terminator in male and female version
- Standard Han® 3 A hoods and housings
- Power supply to the termination network via electrical contacts of Han-Brid®
- Integrated, galvanically separated DC/DC converter 24 V / 5 V

Han-Brid® Quintax 3 A

- Possibility to terminate shielded 4 wires conductors (2 pair STP)
- Suitable for all 4-wire bus systems
- Suitable for shielded cable conductor diameter 3 – 9.5 mm
- Transmission of shielding separately from the hood's ground
- Connections are carried out acc. to DIN EN 50 173, Cat. 5
- Temperature range -40 °C ... +70 °C

Han-Brid® RJ45 C

- Suitable for standard RJ 45 Plug and Jack, shielded version
- Connections provided for conductors acc. to DIN EN 50 173, Cat. 5
- Termination from the device side is carried out via a PCB, two versions are possible: modular version or as part of the appliance PCB
- Assembly with standard tools
- Insert for 2 Han-D® male or female contacts offers the combination with electrical bus connector
- Rated current 10 A
- Rated voltage 24 V
- termination side 0.14 - 2.5 mm²

Han-Brid® USB

- Insert for all Han® 3 A hoods and housings
- Hood with glued sealing
- Simple and low-cost termination via insert of a patch cable
- Strain-relief via cable tie

Han-Brid® FireWire

- Insert for all Han® 3 A hoods and housings
- Hood with glued sealing
- Simple and low-cost termination via insert of a patch cable
- Strain-relief via cable tie
- Compatible to IEEE 1394

Han® 4 A SC

- Suitable with housings, size Han® 3 A including versions Han® M, Han® EMV and Han® HPR
- Degree of protection up to IP 68
- For fibre optic SC contacts; up to 4 SC contacts per connector
- For Multimode fibre 50 - 62.5 / 125 µm and Single-mode fibre 9 / 125 µm
- Full ceramic sleeves for a minimal insertion loss

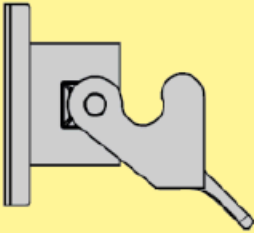
Han-Brid

* HCS® Hard Clad Silica (is registered trade mark of the SpecTran Corporation)

Overview (Sample: Han-Brid® Cu)

Thermoplastic
 09 20 003 0320 (light grey)
 09 20 003 0327 (black)

Metal
 09 20 003 0301



Device side
 09 12 006 2611
 09 12 006 2695
 09 12 006 2694

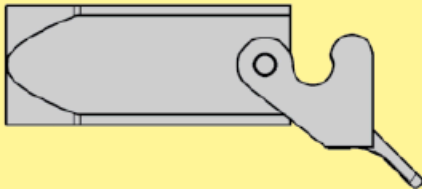
Cable side
 09 12 006 3111

Thermoplastic
 09 20 003 0423 (light grey)
 09 20 003 0426 (black)
 19 20 003 0423 (light grey)
 19 20 003 0426 (black)

Metal
 09 20 003 1443
 19 20 003 1443

Thermoplastic
 09 20 003 0720 (light grey)
 09 20 003 0727 (black)
 19 20 003 0720 (light grey)
 19 20 003 0727 (black)

Metal
 09 20 003 1750
 19 20 003 1750



Device side
 09 12 006 2701
 09 12 006 2795
 09 12 006 2794

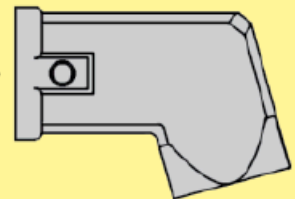
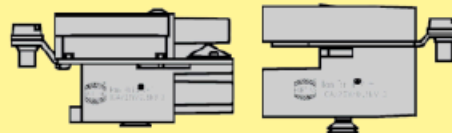
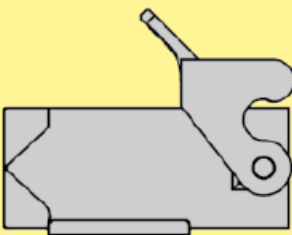
Cable side
 09 12 006 3001

Thermoplastic
 09 20 003 0623 (light grey)
 09 20 003 0626 (black)
 19 20 003 0623 (light grey)
 19 20 003 0627 (black)

Metal
 09 20 003 1643
 19 20 003 1643

Thermoplastic
 09 20 003 0220 (light grey)
 09 20 003 0227 (black)
 19 20 003 0220 (light grey)
 19 20 003 0227 (black)

Metal
 09 20 003 1250
 19 20 003 1250



Overview (Sample: Han-Brid® RJ45 C)

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 09 20 003 0327 (black)

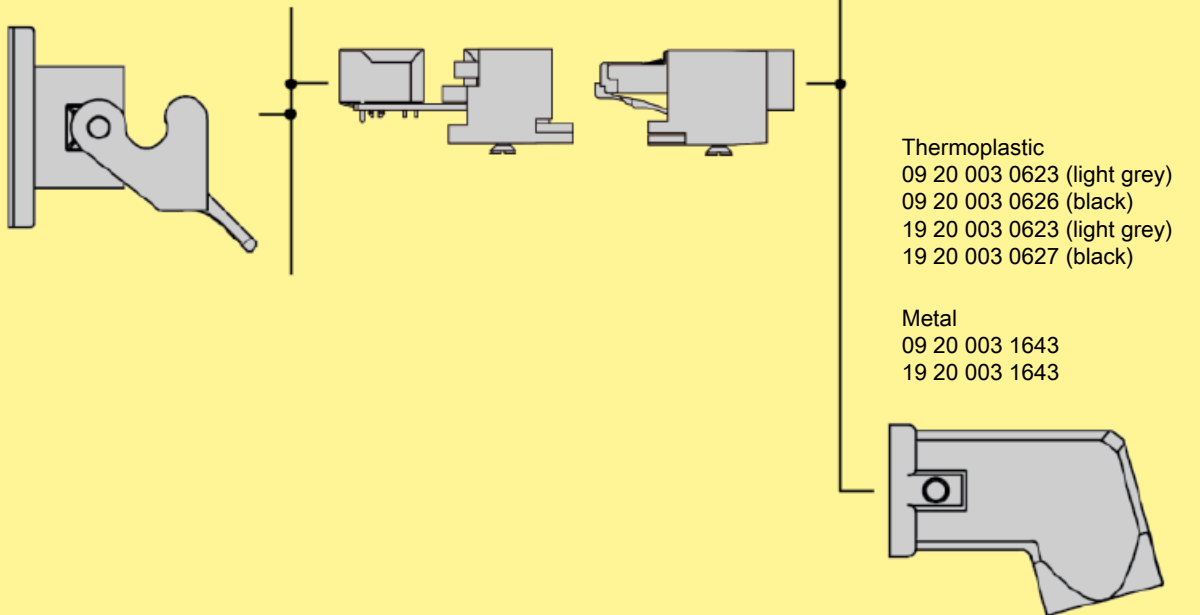
Metal
 09 20 003 0301

Device side
 09 12 003 2770
 09 12 003 2774
 09 12 003 2776

Cable side
 09 12 003 3011
 09 12 003 3021
 09 12 003 3031

Thermoplastic
 09 20 003 0423 (light grey)
 09 20 003 0426 (black)
 19 20 003 0423 (light grey)
 19 20 003 0427 (black)

Metal
 09 20 003 1443
 19 20 003 1443




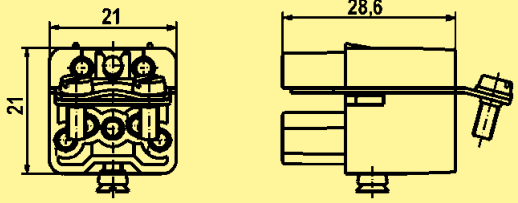
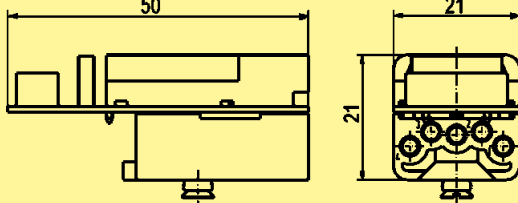
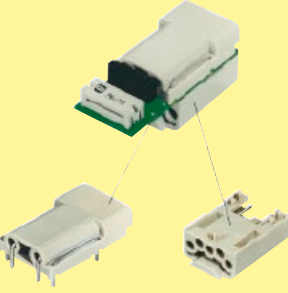

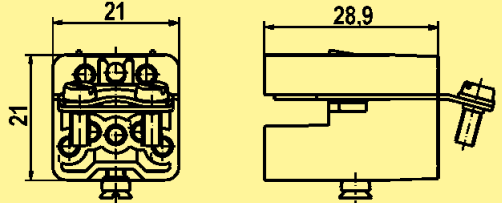
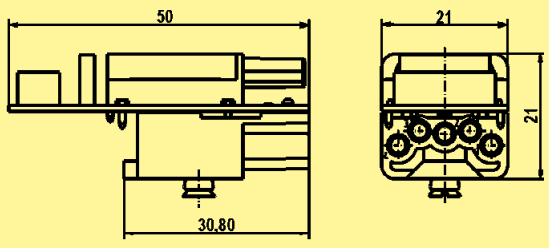

Thermoplastic
 09 20 003 0623 (light grey)
 09 20 003 0626 (black)
 19 20 003 0623 (light grey)
 19 20 003 0627 (black)

Metal
 09 20 003 1643
 19 20 003 1643

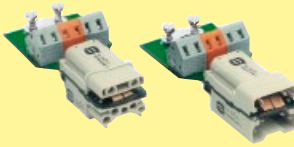
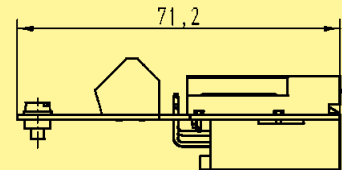
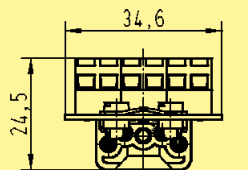
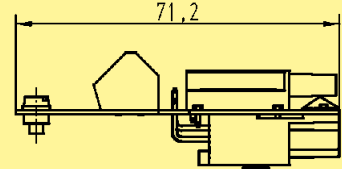
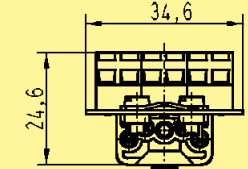

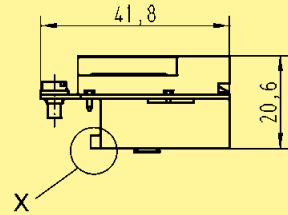
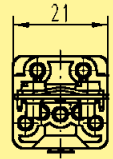
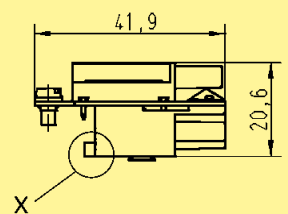
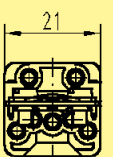


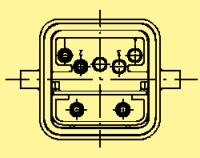
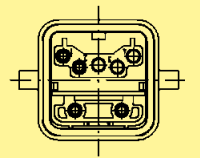
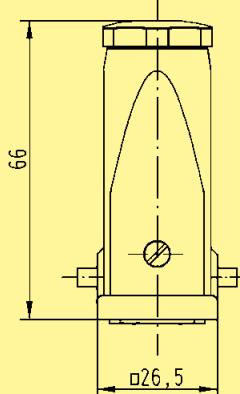
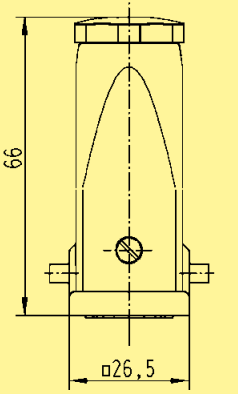
Han-Brid

Hybrid field bus connector
for shielded twisted pair
+ 4 electrical contacts 10 A
+ option for PE



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
<p>Cable side Female insert</p> 		09 12 006 3111	 <p>view from termination side</p> 	
<p>Device side Male insert</p> 	<p>09 12 006 2611</p> <p>Also available as single part</p> <p>loaded 09 12 002 2611 unloaded 09 12 002 3011 unloaded 09 12 004 3011</p>			
<p>Cable side Male insert</p> 	09 12 006 3001		 <p>view from termination side</p> 	
<p>Device side Female insert</p> 	<p>09 12 006 2701</p> <p>Also available as single part</p> <p>loaded 09 12 002 2701 unloaded 09 12 002 3101 unloaded 09 12 004 3101</p>			

Han-Brid

Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
<p>Panel feed through with cage clamp</p> 	09 12 006 2695			
		09 12 006 2795		
<p>Coupling / Panel feed through</p>  <p>X = Cutting off the fin allows the use in cable to cable housings</p>	09 12 006 2694			
		09 12 006 2794		
<p>Bus terminator</p> <p>Plastic hoods/housings</p>  <p>Hoods/Housings, metal</p> 	09 12 006 2691			
		09 12 006 2791		
	09 12 006 2692			
		09 12 006 2792		

Han-Brid

Stock items in bold type

Hybrid field bus connector
with F.O. transmitter and receiver
+ 4 electrical contacts 10 A
+ option for PE



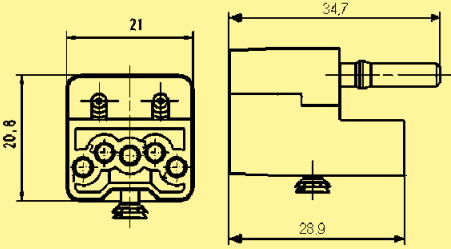
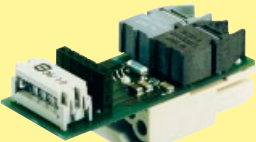

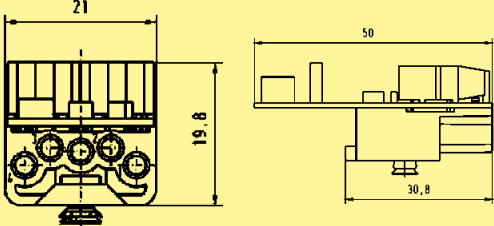


Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Cable side, female F.O. (m) + Han D® (f)			<p>view from termination side</p>	
with F.O. contacts 		for POF 09 12 004 2711 for POF crimpless 09 12 004 2713 for HCS®* fibre 09 12 004 2716		
without F.O. contacts 		for POF 09 12 004 3111 for POF crimpless 09 12 004 3113 for HCS®* fibre 09 12 004 3116		
Device side, male F.O. (f) + Han D® (m)			<p>view from termination side</p>	
with PCB 	09 12 004 2611			
without PCB 	09 12 004 3011			

Han-Brid

* HCS®=Hard Clad Silica (is registered trade mark of the SpecTran Corporation)

Stock items in bold type

Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
<p>Cable side, male F.O. (m) + Han D® (m)</p> <p>with F.O. contact</p>  <p>for POF 09 12 004 2601</p> <p>for POF crimpless 09 12 004 2603</p> <p>for HCS®* fibre 09 12 004 2606</p> <p>without F.O. contact</p>  <p>for POF 09 12 004 3001</p> <p>for POF crimpless 09 12 004 3003</p> <p>for HCS®* fibre 09 12 004 3006</p>			 <p>view from termination side</p>	
<p>Device side, female F.O. (f) + Han D® (f)</p> <p>with PCB</p>  <p>09 12 004 2701</p> <p>without PCB</p>  <p>09 12 004 3101</p>			 <p>view from termination side</p>	


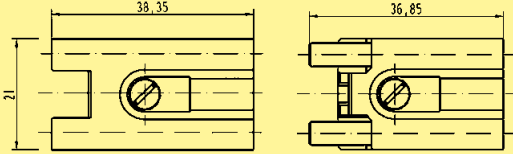
Han-Brid


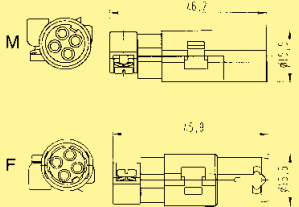


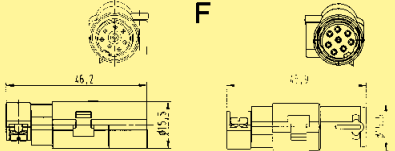

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Stock items in bold type


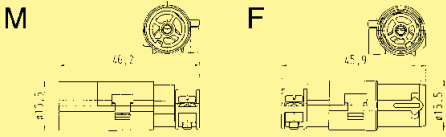


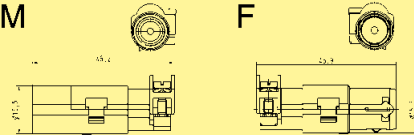
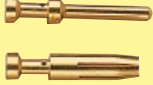
4 contacts + shielding
 + 2 power contacts
 suitable in Han® 3 A metric
 hoods and housings



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Quintax insert 	09 15 003 3001	09 15 003 3101		

Identification	Wire gauge (mm ²)	Part number		Drawing	Dimensions in mm
		Male contact	Female contact		
Han-Quintax® contact 4 + shielding Han D® crimp contacts 		09 15 004 3013	09 15 004 3113		
Han D® Crimp contact gold plated 	0,14-0,37 0,5 0,75 1 1,5 2,5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226		
High Density Quintax contact 8 + shielding Han® D-Sub contacts 		09 15 008 3013	09 15 008 3113		
D-Sub crimp contact 	0,08-0,21 0,13-0,33 0,33-0,52	61 03 000 0078 61 03 000 0094 61 03 000 0073	61 03 000 0080 61 03 000 0096 61 03 000 0074		

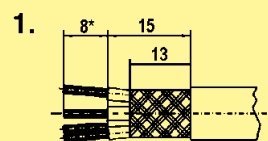
Stock items in bold type

Identification	Wire gauge (mm ²)	Part number		Drawing	Dimensions in mm	
		Male contact	Female contact			
Han D® Coax contact 75 Ω 1 + shielding, 75 Ω Han D® crimp contacts 		09 15 001 3013	09 15 001 3113			
Han D® Crimp contact gold plated 	0,14-0,37	09 15 000 6124	09 15 000 6224			
		0,5	09 15 000 6123			09 15 000 6223
		0,75	09 15 000 6125			09 15 000 6225
		1	09 15 000 6122			09 15 000 6222
		1,5	09 15 000 6121			09 15 000 6221
		2,5	09 15 000 6126			09 15 000 6226
Han E® Coax contact 50 Ω 1 + shielding, 50 Ω Han E® crimp contacts 		09 15 001 3023	09 15 001 3123			
Han E® contacts gold plated 	0,14-0,37	09 33 000 6117	09 33 000 6217			
		0,5	09 33 000 6122			09 33 000 6222
		0,75	09 33 000 6115			09 33 000 6215
		1	09 33 000 6118			09 33 000 6218
		1,5	09 33 000 6116			09 33 000 6216
		2,5	09 33 000 6123			09 33 000 6223
		4	09 33 000 6119			09 33 000 6221
5,5	09 33 000 6139	09 33 000 6239				

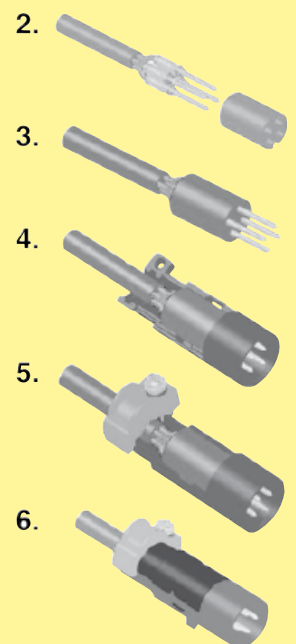
Assembly instructions

Quintax-Z-contact

- Strip cable acc. to drawing 1 and fold the shielding over the cable.
- Crimp Han D® contacts onto the wires.




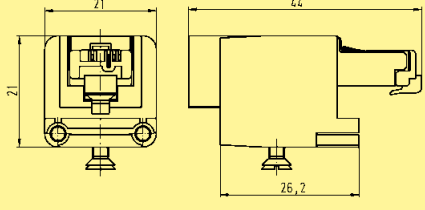

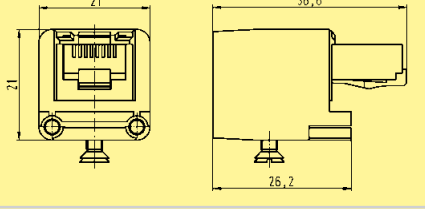

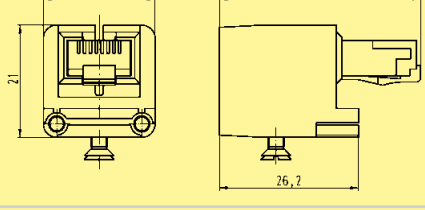

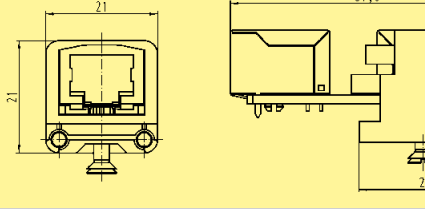

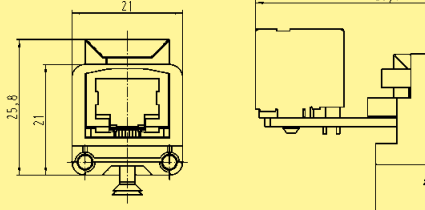

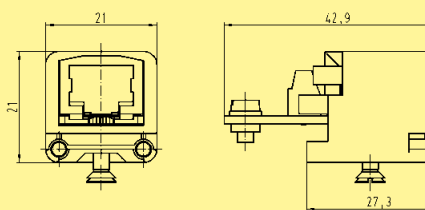
- Insert Han D® contacts into corresponding cavities of insulator until they are snapped in.
- Fit the insert including the cable into the opened shielded bushing. The coding pin of the shielded bushing has to meet the groove of the insulator.
- Clamp the tilt over the shielding onto the cable by means of the special clamp (small opening for cable diameter of 3 - 6 mm, large opening for cable diameter of 6 - 9.5 mm).
- Check the wiring.
- Close the shielded bushing with the cover and insert it into the corresponding cavity of the Quintax Module as usual.



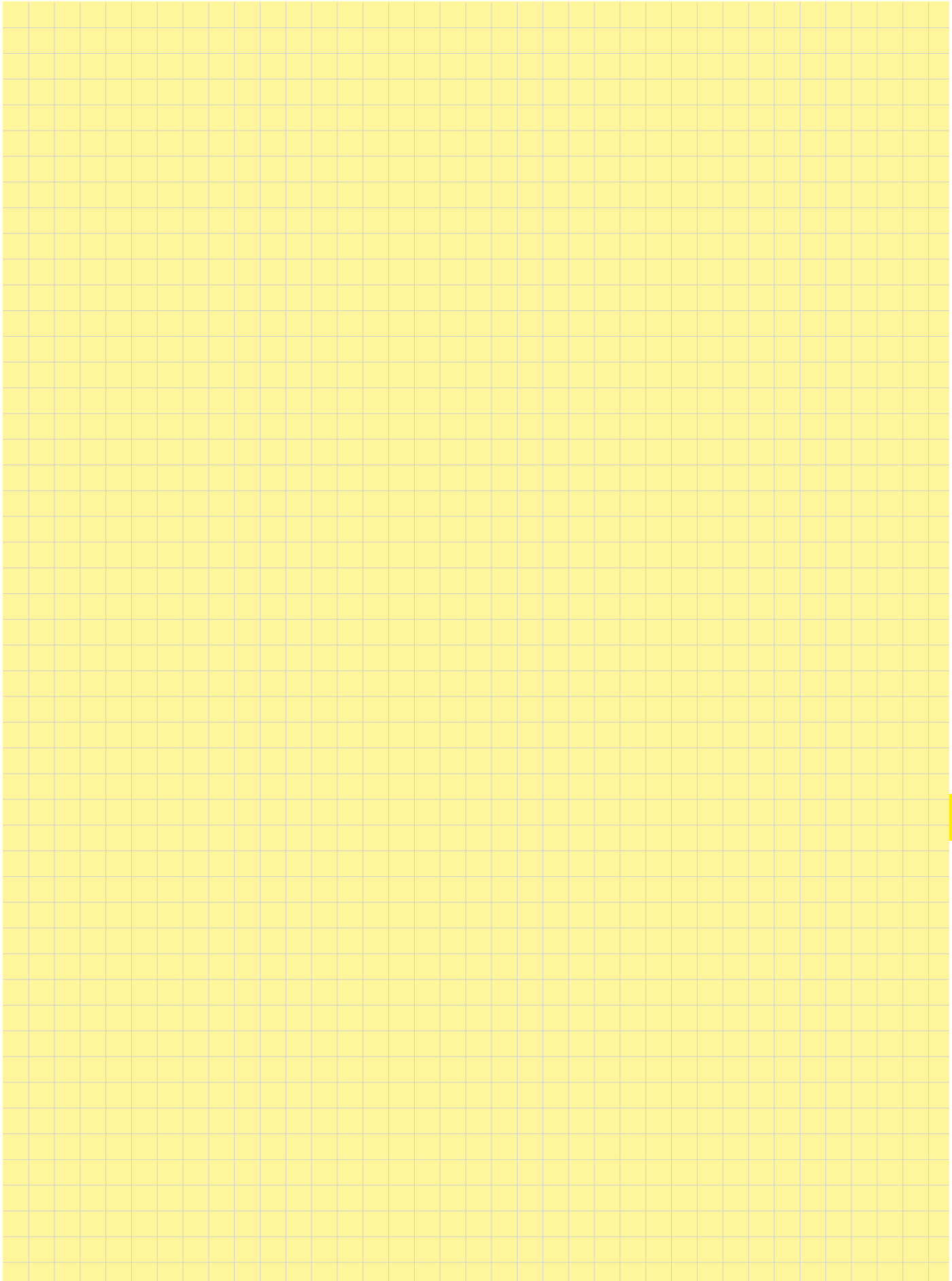
Stock items in bold type



Hybrid network connector
+ 2 electrical contacts 10 A

Identification	Part number	Drawing	Dimensions in mm
Han-Brid® RJ45 C with RJ Industrial 	09 12 003 3011		21, 21, 44, 26,2
Han-Brid® RJ45 C with Stewart RJ45 	09 12 003 3021		21, 21, 36,6, 26,2
Han-Brid® RJ45 C with HIROSE RJ45 	09 12 003 3031		21, 21, 37,8, 26,2
Panel feed through straight 	09 12 003 2774		21, 21, 51,5, 27,3
Panel feed through angled 	09 12 003 2776		21, 25,8, 21, 50,1, 27,3
Panel feed through with 4 pole terminal block 	09 12 003 2770		21, 21, 42,9, 27,3

Han-Brid



Han-Brid® USB

Features

- Insert for all Han® 3 A hoods and housings
- Hood with glued sealing
- Simple and low-cost termination via insert of a patch cable
- Strain-relief via cable tie

Technical characteristics

USB style A, 2.0 Standard

Specifications	DIN EN 60 664-1 DIN EN 61 984
Number of contacts	4
Electrical data acc. to EN 61 984	1 A 50 V 0.8 kV 3
Rated current	1 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Material	polycarbonate
Insulation resistance	≥ 10 ¹⁰ Ω
Contact resistance	≥ 4 mΩ
Temperature range	-40 °C ... +85 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Han-Brid® FireWire

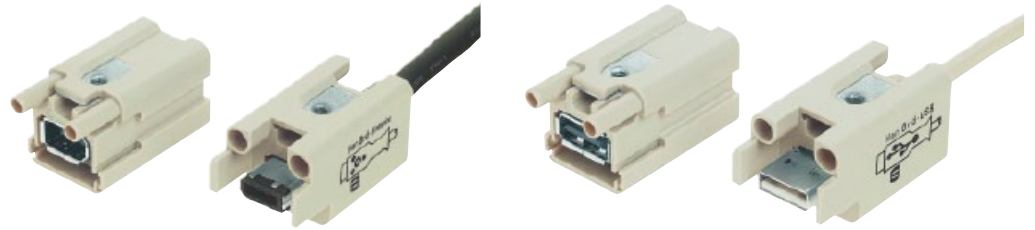
Features



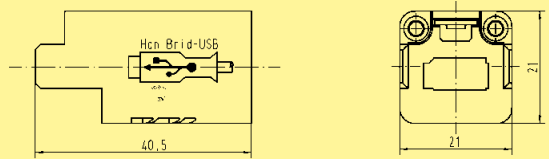
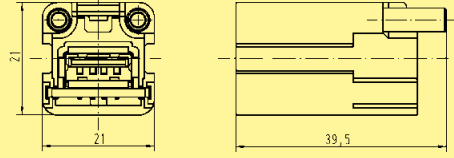


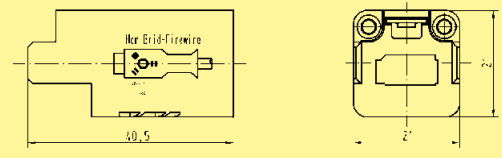
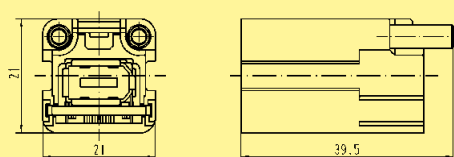
- Insert for all Han® 3 A hoods and housings
- Hood with glued sealing
- Simple and low-cost termination via insert of a patch cable
- Strain-relief via cable tie
- Compatible to IEEE 1394

Technical characteristics

Firewire IEEE 1394

Specifications	DIN EN 60 664-1 DIN EN 61 984
Number of contacts	6
Electrical data acc. to EN 61 984	1 A 50 V 0.8 kV 3
Rated current	1 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Material	polycarbonate
Insulation resistance	≥ 10 ¹⁰ Ω
Contact resistance	≥ 4 mΩ
Temperature range	-40 °C ... +85 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
<p>Han-Brid® USB</p> <p>Cable side Female insert</p>  <p>Device side Male insert</p> 		<p>09 12 001 3091</p>	 	
<p>Han-Brid® FireWire</p> <p>Cable side Female insert</p>  <p>Device side Male insert</p> 		<p>09 12 001 3071</p>	 	

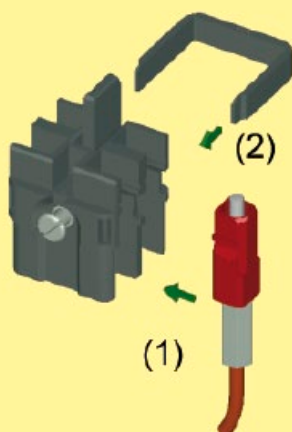
Han-Brid

Features

- Suitable with housings, size Han® 3 A including versions Han® M, Han® EMV and Han® HPR
- Degree of protection up to IP 68
- For HARTING fibre optic SC contacts; up to 4 SC contacts per connector
- For Multimode fibre 50 - 62.5 / 125 µm and Single-mode fibre 9 / 125 µm
- Full ceramic sleeves for a minimal insertion loss

Assembly instructions

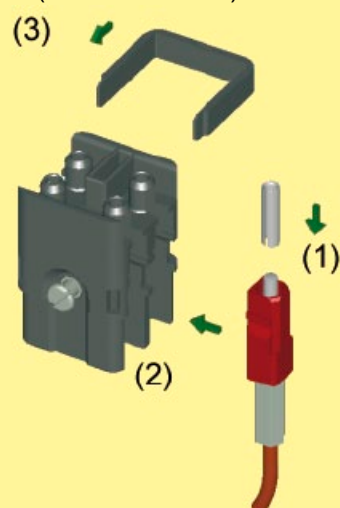
Male insert (09 20 004 4701)



Assemble the SC contact

- (1) Push the SC contact from the side into the relevant insert
- (2) Push the spring clip over the contact body.

Female insert (09 20 004 4711)

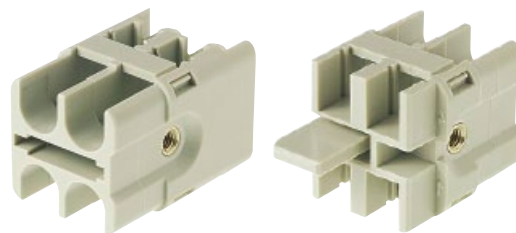


Assemble the SC contact

- (1) Push the centering ferrule (included in delivery) on the SC contact
- (2) Push the SC contact from the side into the relevant insert
- (3) Push the spring clip over the contact body.

Number of contacts

4



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
SC module Order SC contacts separately	09 20 004 4701	09 20 004 4711		Contact arrangement view from termination side The female inserts are equipped with centering ferrules. 4 ferrules are included in delivery range.

Identification	Part number		Drawing	Dimensions in mm
	Male contact	Female contact		
SC contact for GI fibre 50/125 µm or 62.5/125 µm ceramic ferrule 	20 10 125 5211	20 10 125 5211		
for SI fibre (HCS®) 200/230 µm	20 10 230 5211	20 10 230 5211		
with quick assembly technique for 1 mm POF	20 10 001 5217	20 10 001 5217		
with crimp technique for 1 mm POF	20 10 001 5211	20 10 001 5211		

Han-Brid

Han® 3 A Standard Hoods/Housings

Metal hoods/housings for industrial applications

Material	zinc die-cast
Colour	RAL 7037 (grey)
Surface	powder-coated
Locking element	steel, zinc-plated
Lever type	lever, metal
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 44 IP 67 is achieved with seal screw 09 20 000 9918

Han® 3 A EMC Hoods/Housings

Hoods/Housings for higher EMC requirements

Material	zinc die-cast
Colour	non coloured
Surface	electrical conductive
Locking element	steel, zinc-plated
Lever type	lever, metal
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 44 IP 67 is achieved with seal screw 09 20 000 9918

Han® 3 A Hoods/Housings

Plastic hoods/housings for industrial applications

Material	polycarbonate
Colour	RAL 7032 (light grey) RAL 9005 (black)
Locking element	Polyamide
Lever type	Lever, plastic
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... +125 °C
Approval acc. to UL 50	NEMA 4/12
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 67

Han-INOX® Hoods/Housings for higher corrosion requirements


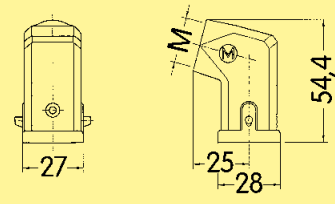

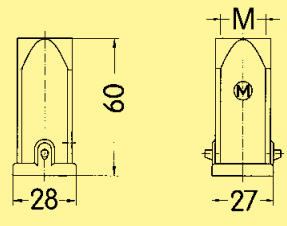
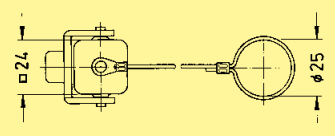
Material	stainless steel
Colour	non coloured
Surface	electrical conductive
Locking element	Stainless steel
Lever type	lever, metal
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector - Size Han® 3 A	IP 65 IP 44 IP 67 is achieved with seal screw 09 20 000 9918

Han® M Hoods/Housings


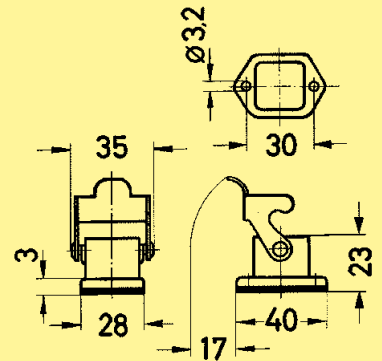

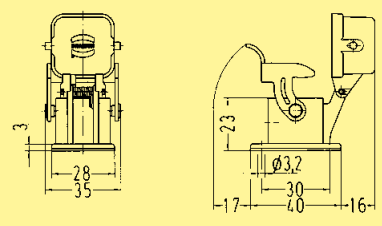
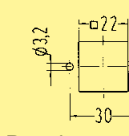
Hoods/Housings for higher environmental requirements

Material	aluminium die-cast
- Size Han® 3 A	zinc die-cast
Colour	RAL 9005 (black)
Surface	
- Top coat	Epoxy powder paint
Locking element	Stainless steel
Lever type	lever, metal
Hoods/Housings sealing	FPM
Limiting temperatures	-40 °C ... +125 °C
Approval acc. to UL 50	NEMA 4/12
Degree of protection acc. to DIN EN 60 529 for coupled connector - Size Han® 3 A	IP 65 IP 44 IP 67 is achieved with seal screw 09 20 000 9918

Metal hoods/housings for industrial applications / 1 lever locking system with sealing

Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
Hoods side entry 	19 20 003 1643	M 20		54,4 27 25 28
Hoods top entry 	19 20 003 1443	M 20		60 28 27
Protection covers for hoods 	09 20 003 5422			24 25

Metal hoods/housings for industrial applications / 1 lever locking system

Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
Housings, bulkhead mounting 	09 20 003 0301			$\varnothing 32$ 35 30 3 28 17 40 23
	09 20 003 0306			3 28 35 23 $\varnothing 32$ 17 30 16
				$\varnothing 32$ 22 30

Han-Brid


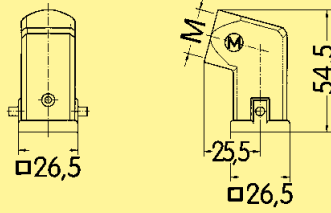

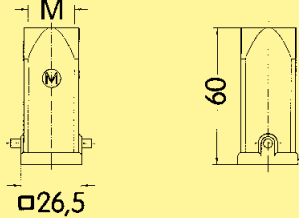
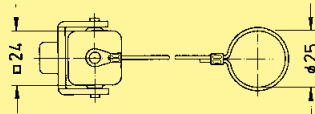
19
19

Stock items in bold type


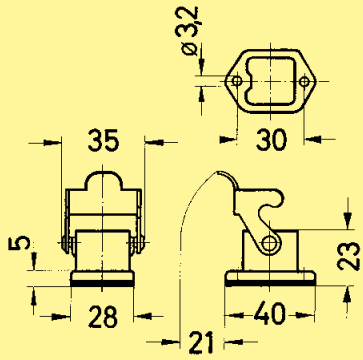

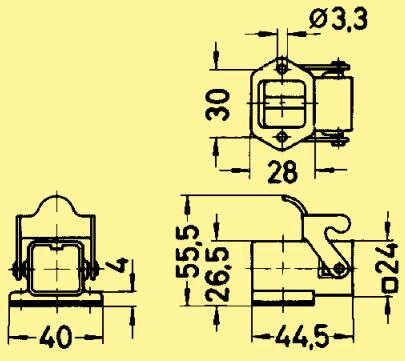
Metal hoods/housings for industrial applications / 1 lever locking system

Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
	09 20 003 0801			Panel cut out 22 x 22 mm
Housings, surface mounting side entry 	19 20 003 1250 bottom closed 19 20 003 1252	M 20 M 20		Panel cut out 22 x 22 mm
Housings, screw mounting top entry 	19 20 003 1150	M 20		
Hoods, cable to cable top entry 	19 20 003 1750	M 20		
Protection covers 	09 20 003 5425 09 20 003 5427			

Plastic hoods/housings for industrial applications / 1 lever locking system with sealing


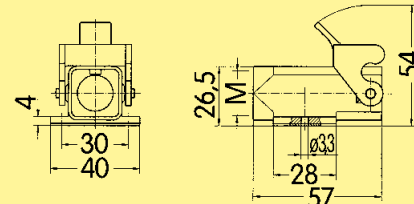

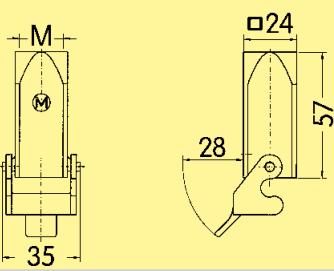

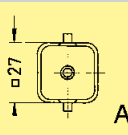
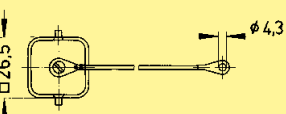
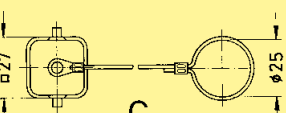
Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
<p>Hoods side entry</p> 	<p>light grey 19 20 003 0623 black 19 20 003 0626</p>	<p>M 20 M 20</p>		
<p>Hoods top entry</p> 	<p>light grey 19 20 003 0423 black 19 20 003 0426</p>	<p>M 20 M 20</p>		
<p>Protection covers for hoods</p>	<p>light grey 09 20 003 5442</p>			

Plastic hoods/housings for industrial applications / 1 lever locking system

Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
<p>Housings, bulkhead mounting</p> 	<p>light grey 09 20 003 0320 black 09 20 003 0327</p>		 <p>Panel cut out 22 x 22 mm</p>	
	<p>light grey 09 20 003 0820 black 09 20 003 0827</p>		 <p>Panel cut out 22 x 22 mm</p>	

Han-Brid


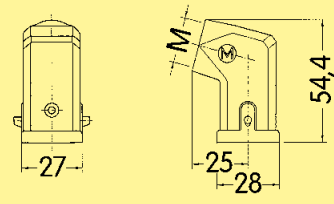
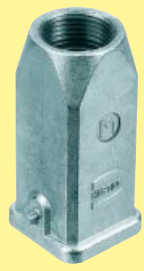
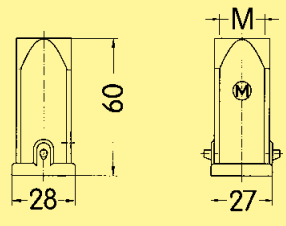
Plastic hoods/housings for industrial applications / 1 lever locking system

Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
<p>Housings, surface mounting side entry</p> 	<p>light grey 19 20 003 0220 black 19 20 003 0227</p>	<p>M 20 M 20</p>	 <p>Panel cut out 22 x 22 mm</p>	
<p>Hoods, cable to cable top entry</p> 	<p>light grey 19 20 003 0720 black 19 20 003 0727</p>	<p>M 20 M 20</p>		
<p>Protection covers</p> 	<p>light grey 09 20 003 5408²⁾ black 09 20 003 5409²⁾</p>			
<p>Protection covers for housings</p>	<p>light grey 09 20 003 5445²⁾ black 09 20 003 5449²⁾</p>			
<p>Protection covers for hoods cable to cable</p>	<p>light grey 09 20 003 5447¹⁾²⁾</p>			


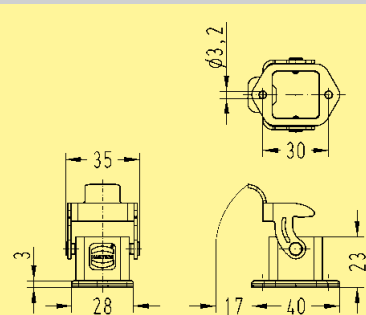
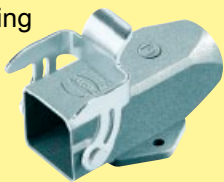
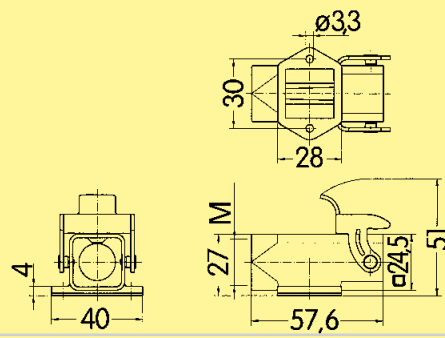

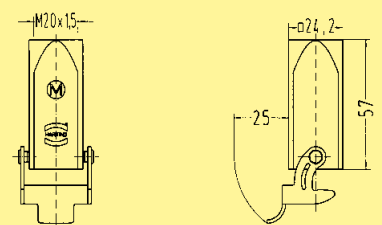
Han-Brid

¹⁾ for metal housings and cable to cable hoods also
²⁾ for mounted female insert or for mounted Han-Brid® insert

Hoods/Housings for higher EMC requirements / 1 lever locking system with sealing


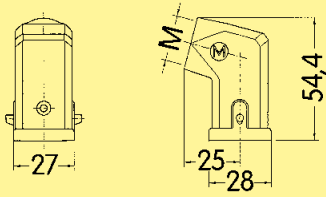

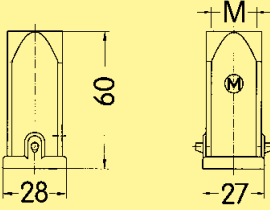
Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
Hoods side entry 	19 62 003 1643	M 20		
Hoods top entry 	19 62 003 1443	M 20		

Hoods/Housings for higher EMC requirements / 1 lever locking system


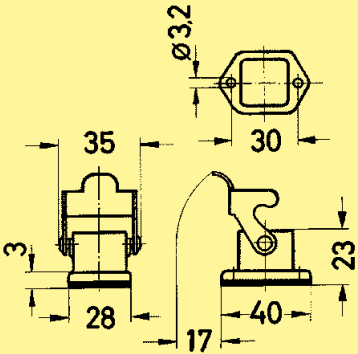

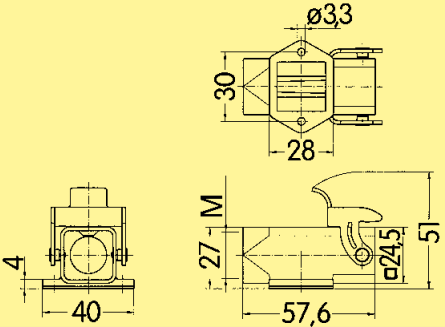

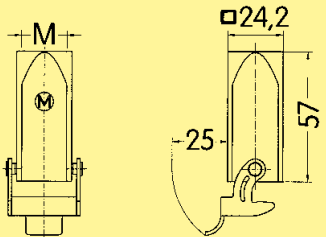
Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
Housings, bulkhead mounting 	09 62 003 0301			
Housings, surface mounting top entry 	19 62 003 1250	M 20		Han-Brid
Hoods, cable to cable top entry 	19 62 003 1750	M 20		

Stock items in bold type


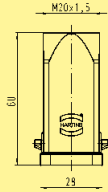
Hoods/Housings for higher environmental requirements / 1 lever locking system with sealing

Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
Hoods side entry 	19 37 003 1643	M 20		
Hoods top entry 	19 37 003 1443	M 20		


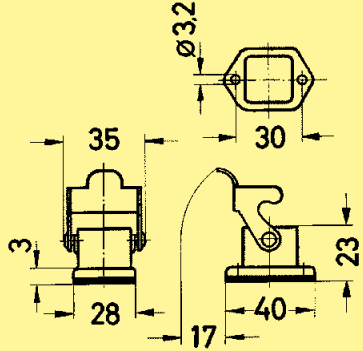
Hoods/Housings for higher environmental requirements / 1 lever locking system


Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
Housings, bulkhead mounting top entry 	09 37 003 0301			
Housings, surface mounting top entry Han-Brid 	19 37 003 1250	M 20		
Hoods, cable to cable top entry 	19 37 003 1750	M 20		

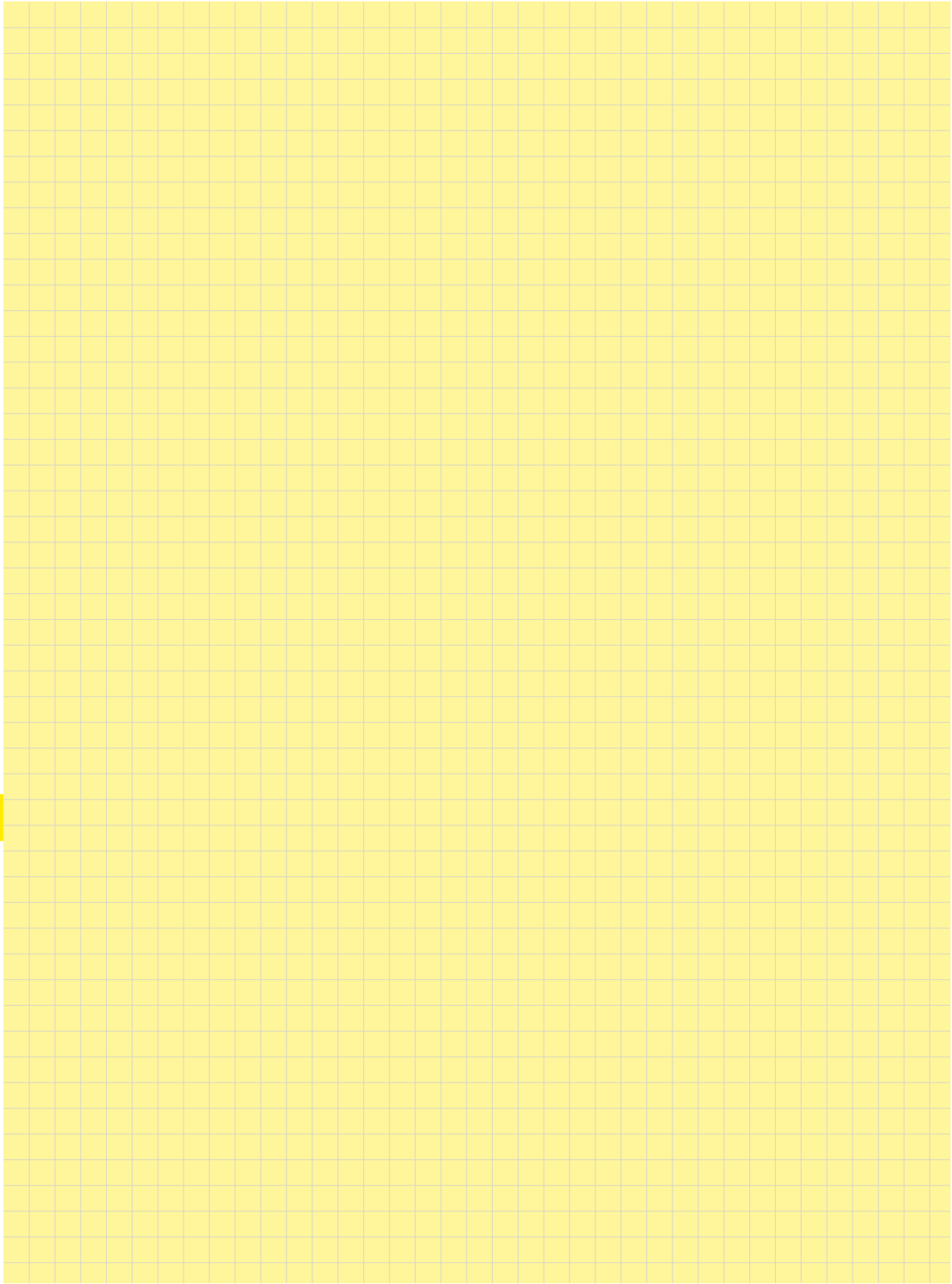
Hoods/Housings made of stainless steel / 1 lever locking system with sealing

Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
Hoods top entry 	19 44 003 1443	M 20		

Hoods/Housings made of stainless steel / 1 lever locking system

Identification	Part number	Cable entry metric	Drawing	Dimensions in mm
Housings, bulkhead mounting 	19 44 003 0301			Panel cut out 22 x 22 mm

Cable gland 	19 44 000 5082	M 20		
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Han-
Brid