Han® Q

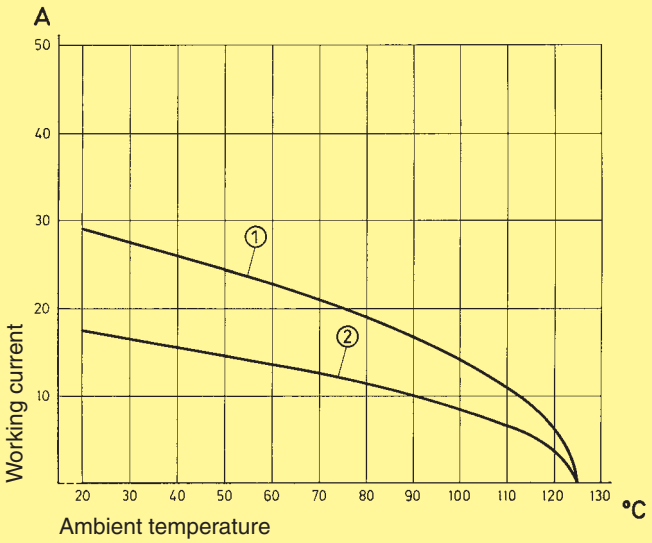
Features

- ❏ 5 contact chambers for the power contacts of the series Han E® (16 A)
- ❏ Space-saving and compact design
- ❏ Leading protective ground with screw terminal
- ❏ Crimp terminal with standard Han E® contacts
- ❏ Use of standard tools
- ❏ Compatible with metal and plastic hoods of the series Han® 3 A / 4 A
- ❏ The contacts can be removed with the aid of a removal tool from the termination side
- ❏ Degree of protection IP 65[2)]

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512-3.



Ambient temperature

① Wire gauge: 2.5 mm²
② Wire gauge: 1.5 mm²

Technical characteristics

Specifications	DIN VDE 0627 DIN VDE 0110 DIN EN 61 984
Approvals	cULus, SEV

Inserts

Number of contacts	5 + PE
Electrical data acc. to DIN EN 61 984	**16 A 230/400 V 4 kV 3**
Working current	
Working voltage conductor – ground	
Working voltage conductor – conductor	
Rated impulse voltage	
Pollution degree	
– Pollution degree 2 also	16 A 320/500 V 4 kV 2
Working voltage according to CSA	600 V
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	≤ 1 mΩ
Crimp terminal	
- mm²	0.5 - 2.5 mm²
- AWG	20 - 14

Plastic Hoods/Housings

Material	Polycarbonate RAL 7032
Locking element	Polyamide RAL 7032
Flammability acc. to UL 94	V 0
Hoods/Housings seal	NBR
Limiting temperatures	– 40 °C / + 125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 67

Metal Hoods/Housings

Material	die cast zinc alloy
Locking element	steel, galvanized
Hoods/Housings seal	NBR
Limiting temperatures	– 40 °C / + 125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 44 IP 67 with sealing screw 09 20 000 9918
Further selection of hoods/housings	chapter 30 / chapter 31

Accessories

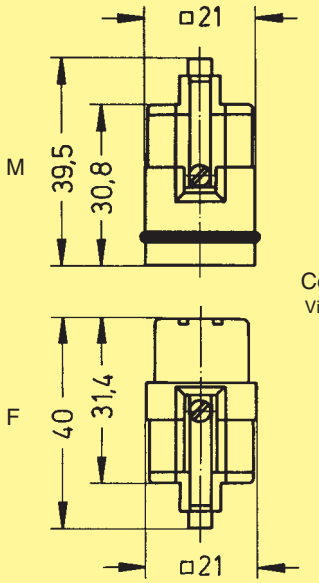
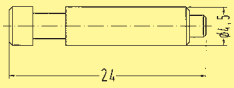
Crimping tools	chapter 99
Cable clamps	chapter 40
IP 65 fixing screw	chapter 40

Han® Q 5/0 — Size 3 A — 230/400 V 16 A

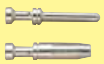
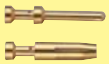
Number of contacts

5 + ⏚

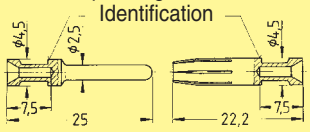
Inserts

Identification	Part No. Male insert (M)	Part No. Female insert (F)	Drawing	Dimensions in mm
Crimp terminal Order crimp contacts separately	**09 12 005 3001**	**09 12 005 3101**		Contact arrangement View from termination side  
Coding Pin 	**09 33 000 9954**		Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert. 	

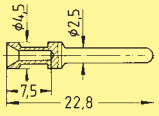
Han Q

Identification	Wire gauge (mm²)	Part No. Male contacts	Part No. Female contacts
Crimp contacts Han E® contacts			
Power contacts silver plated 	0.14-0.37	**09 33 000 6127***	09 33 000 6227*
	0.5	**09 33 000 6121**	**09 33 000 6220**
	0.75	**09 33 000 6114**	**09 33 000 6214**
	1.0	**09 33 000 6105**	**09 33 000 6205**
	1.5	**09 33 000 6104**	**09 33 000 6204**
	2.5	**09 33 000 6102**	**09 33 000 6202**
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**
	1.0	**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**
Relay contacts silver plated 	0.75-1	09 33 000 6109	
	1.5	09 33 000 6110	
	2.5	09 33 000 6111	
FOC contacts for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321

Operating contact Identification



Relay contact

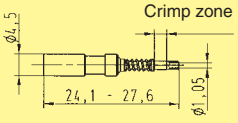


Crimp contact identification

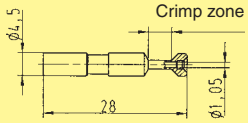
Identification	Wire gauge		Stripping length
no groove	0.14-0.37 mm²	AWG 26-22	7.5 mm
no groove	0.5 mm²	AWG 20	7.5 mm
1 groove*	0.75 mm²	AWG 18	7.5 mm
1 groove	1 mm²	AWG 18	7.5 mm
2 grooves	1.5 mm²	AWG 16	7.5 mm
3 grooves	2.5 mm²	AWG 14	7.5 mm

* on the back crimp collar

Crimp zone



Crimp zone



* only to be used with BUCHANAN crimping tool 09 99 000 0001 and adjustment gauge 09 99 000 0203

Stock items in bold type

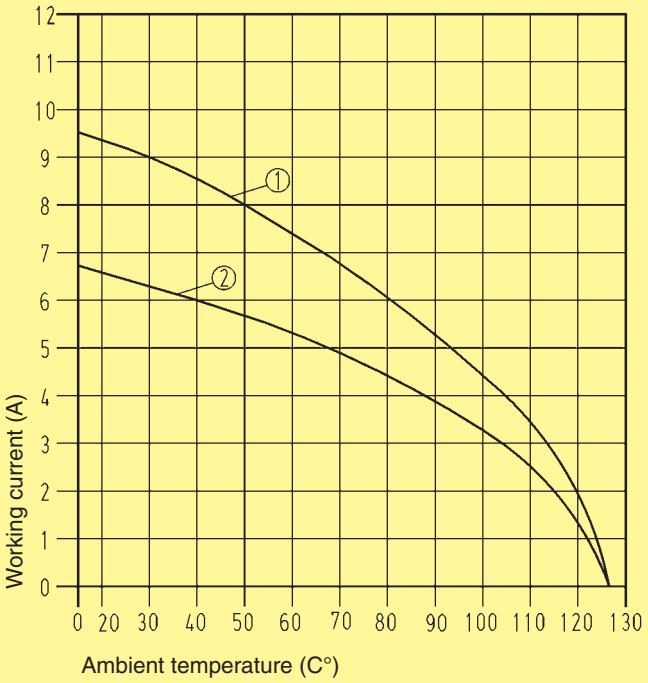
Features

- ❏ 7 contact chambers taking the control contacts of the series Han D® (10 A)
- ❏ Space-saving and compact design
- ❏ Crimp terminal with standard Han D® contacts
- ❏ Insert is suitable for the hoods and housings of the series Han® 3A
- ❏ The contacts can be removed with the aid of a removal tool from the mating side
- ❏ 6 fold coding by means of a coding pin

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum termperature.

Control and test procedures according to DIN IEC 60 512-3.



Wire gauge: ① 1,5 mm²
② 0,75 mm²

Technical characteristics

Specifications	DIN VDE 0627 DIN VDE 0110 DIN EN 61 984
Approvals	cULus

Inserts

Number of contacts	7 + PE
Electrical data acc. to DIN EN 61 984	**10 A 400 V 6 kV 3**
Working current	
Working voltage	
Rated impulse voltage	
Pollution degree	
– Pollution degree 2 also	10 A 400/690 V 6 kV 2
Working voltage according to UL	600 V
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	
Crimp terminal	≤ 3 mΩ
- mm²	0.14 - 2.5
- AWG	26 - 14
PE screw terminal	
- mm²	2.5
- AWG	14

Plastic hoods/housings

Material	Polycarbonate
Locking element	Polyamide
Flammability acc. to UL 94	V 0
Hood/Housings seal	NBR
Limiting temperatures	– 40 °C / + 125 °C
Degree of protection acc. to DIN EN 60 529 in locked position	IP 67

Metal hoods/housings

Material	die cast zinc alloy
Locking element	steel galvanized
Hoods/Housings seal	NBR
Limiting temperatures	– 40 °C / + 125 °C
Degree of protection acc. to DIN EN 60 529 in locked position	IP 44 IP 67 with sealing screw 09 20 000 9918

Accessories

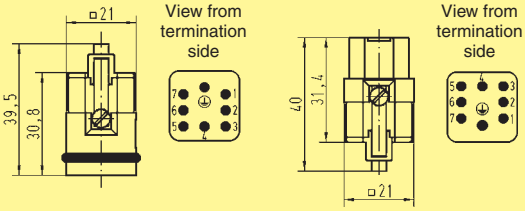
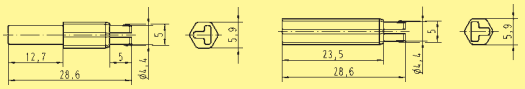
Crimping tools	chapter 99

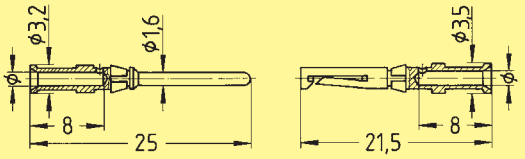
Han® Q 7/0 — Size 3 A — 400 V 10 A

Number of contacts

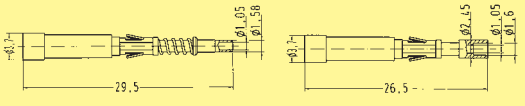
7 + ⏚

Inserts

Identification	Part No. Male insert (M)	Part No. Female insert (F)	Drawing	Dimensions in mm
Crimp terminal Order crimp contacts separately	**09 12 007 3001**	**09 12 007 3101**		
			M	F
Coding pins	**09 12 000 9901**	**09 12 000 9902**		

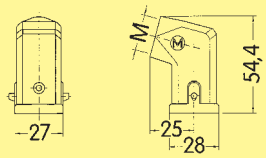
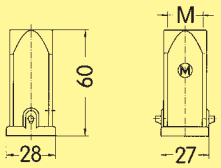
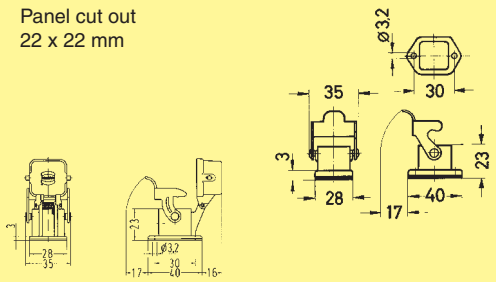
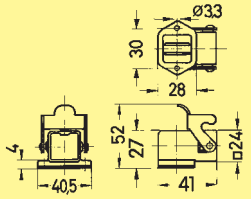
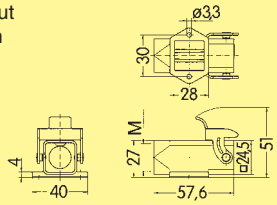
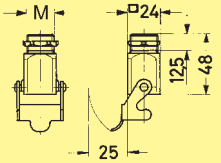
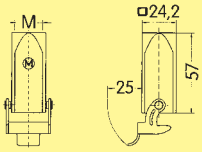
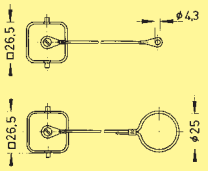
Identification	Wire gauge (mm²)	Part No. Male contacts	Part No. Female contacts	Drawing	Dimensions in mm
Crimp contacts Han D® contacts					
silver plated	0.14-0.37	**09 15 000 6104**	**09 15 000 6204**		
	0.5	**09 15 000 6103**	**09 15 000 6203**		
	0.75	**09 15 000 6105**	**09 15 000 6205**		
	1.0	**09 15 000 6102**	**09 15 000 6202**		
	1.5	**09 15 000 6101**	**09 15 000 6201**		
	2.5*	**09 15 000 6106**	**09 15 000 6206**		
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**		
	1.0	**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**		

Wire gauge		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.90 mm	8 mm
0.5 mm²	AWG 20	1.10 mm	8 mm
0.75 mm²	AWG 18	1.30 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm

FOC contacts for 1 mm plastic fibre		**20 10 001 3211**	20 10 001 3221		

* partly loaded insert

Stock items in bold type

Identification		Part No.	M	Drawing	Dimensions in mm
Hoods	Hood side-entry	**19 20 003 1640**	20		
	Hood top-entry	**19 20 003 1440**	20		
	Protection covers for hoods	**09 20 003 5422**[1] **09 20 003 5421**[2]			
Housings	Housings bulkhead mounting	**09 20 003 0301**		Panel cut out 22 x 22 mm 	
	with fixed cover without sealing	**09 20 003 0305**[1]			
	with sealing	**09 20 003 0306**[2]			
		09 20 003 0801			
	Housing surface mounting 1 side-entry	**19 20 003 1250**	20	Panel cut out 22 x 22 mm 	
	bottom closed	**19 20 003 1252**	20		
	Housing screw mounting	**19 20 003 1150**	20		
	Hood cable to cable	**19 20 003 1750**	20		
	Protection covers for housings	**09 20 003 5426**[1] **09 20 003 5425**[2]			
	for hoods cable to cable	09 20 003 5428[1] **09 20 003 5427**[2]			

Han Q

[1] for mounted male insert [2] for mounted female insert

Stock items in bold type

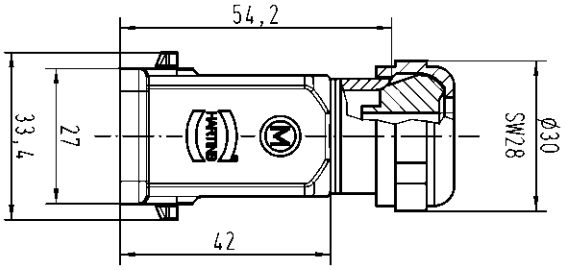
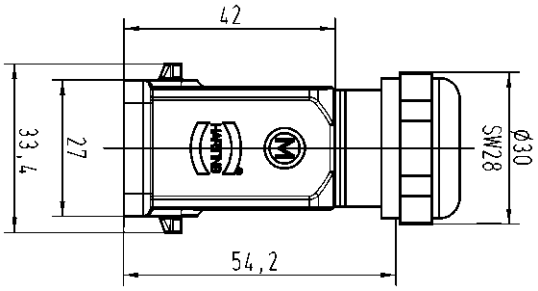
Han® 3 A Hood with integrated Cable gland

Features

- Installation height reduced by 25 % compared with existing standard solutions
- Integrated cable gland with large clamping range of 5 –13 mm
- Use of patch cables is possible (e.g. USB and FireWire)
- Reduction of logistic complexitiy by integration of cable gland

Technical characteristics

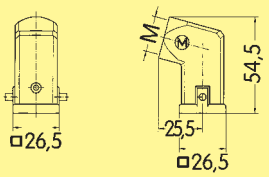
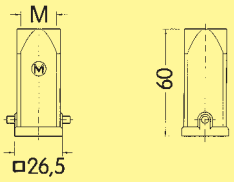
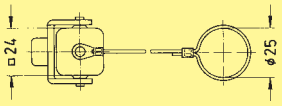
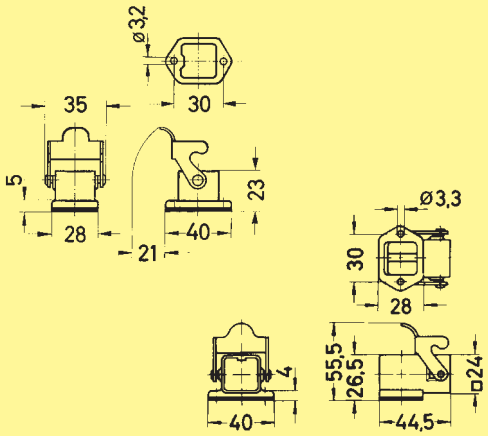
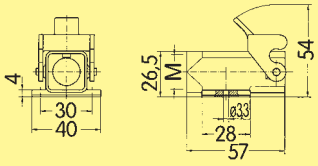
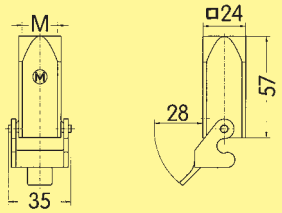
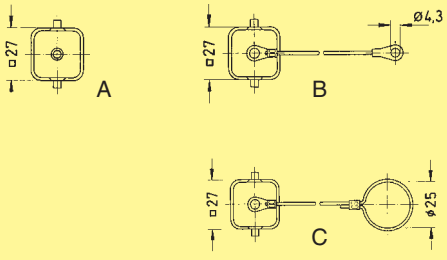
Material	Zinc die-cast
Surface	Powder-coated RAL 7037 (grey)
Cable gland	Brass, nickel-plated with high quality rubber sealing element
Clamping range	5 - 13 mm
Limiting temperatures	-40 °C ... 125 °C
Degree of protection accd. to EN 60 529 in locked position	IP 44 IP 67 with use of sealing screw 09 20 000 9918

Identification	Part Number	Drawing	Dimensions in mm
without glued-in sealing at mating face of hood	19 20 003 1421		
with glued-in sealing at mating face of hood	19 20 003 1423		

Assembly instructions

For small cable diameter
Identification pull identification tab outwards or remove

For large cable diameter
Remove blue insert: place the screw driver vertically into the separation seam and lift out the blue insert

Identification		Part No.	M	Drawing	Dimensions in mm
Hoods					
Hoods side-entry		grey 19 20 003 0620 black 19 20 003 0627	20 20		
Hoods top-entry		grey **19 20 003 0420** black 19 20 003 0427	20 20		
Protection covers for hoods		09 20 003 5442[1] 09 20 003 5441[2]			
Housings					
Housings bulkhead mounting	 	grey **09 20 003 0320** black **09 20 003 0327** grey **09 20 003 0820** black **09 20 003 0827**	– – – –	Panel cut out 22 x 22 mm 	
Housings surface mounting 1 side-entry		grey **19 20 003 0220** black **19 20 003 0227**	20 20	Panel cut out 22 x 22 mm 	
Hoods cable to cable		grey **19 20 003 0720** black 19 20 003 0727	20 20		
Protection covers for housings A B for hoods cable to cable C		09 20 003 5407[1][3] **09 20 003 5408**[2][3][4] **09 20 003 5445**[2] 09 20 003 5446[1] 09 20 003 5447[2][3][4] 09 20 003 5448[1]			

Han Q

[1] for mounted male insert
[2] for mounted female insert
[3] for metal housings and cable to cable hoods also
[4] for mounted Han-Brid® male and female insert

Stock items in bold type

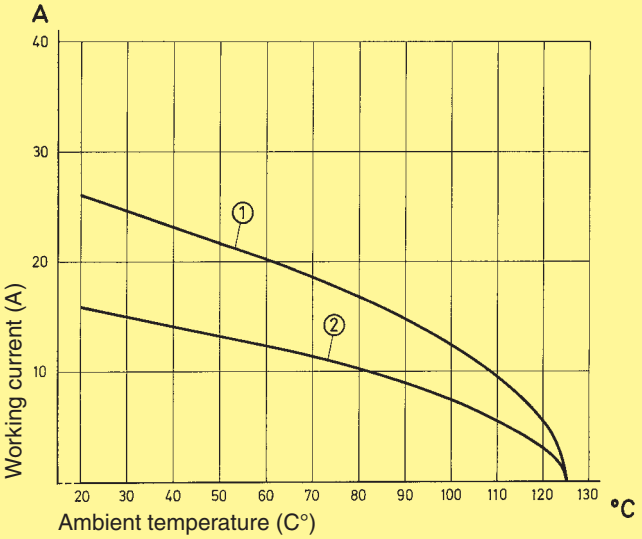
Features

- ❑ 8 contact chambers taking the Han E® power contacts
- ❑ Space-saving and compact design
- ❑ Leading protective ground
- ❑ Crimp terminal with standard Han E® contacts
- ❑ Use of standard tools
- ❑ Insert is suitable for the hoods and housings of the series Han® Q 8/0
- ❑ The contacts can be removed with the aid of a removal tool from the termination side
- ❑ DESINA* conform product

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum termperature.

Control and test procedures according to DIN IEC 60 512-3.



Control and test procedures according to DIN IEC 512-3
Wire gauge: ① 2.5 mm²
② 1.5 mm²

Technical characteristics

Specifications	DIN VDE 0627 DIN VDE 0110 DIN EN 61 984
Approvals	c UL us

Inserts

Number of contacts	8 + PE
Electrical data acc. to DIN EN 61 984	
Mounted plastic hood	**16 A 500 V 6 kV 3**
Working current Working voltage Rated impulse voltage Pollution degree	
– Pollution degree 2 also	16 A 400/690 V 6 kV 2
Mounted metal hood	**16 A 230/400 V 4 kV**
Working voltage acc. to UL	500 V
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	
Crimp terminal	< 1 mΩ
- mm²	0.5 - 2.5 mm² partly loaded up to 4 mm² is possible
- AWG	20 - 14

Plastic hoods/housings

Material	Polycarbonate RAL 9005
Locking element	Polyamide RAL 9005
Flammability acc. to UL 94	V 0
Hood/Housings seal	NBR
Limiting temperatures	– 40 °C / + 125 °C
Degree of protection acc. to DIN EN 60 529 in locked position	IP 65

Metal hoods/housings

Material	die cast zinc alloy
Locking element	V2A steel
Hoods/Housings seal	NBR
Limiting temperatures	– 40 °C / + 125 °C
Degree of protection acc. to DIN EN 60 529 in locked position	IP 65

Accessories

Crimping tools	chapter 99

Han Q

* DESINA is a registered trademark

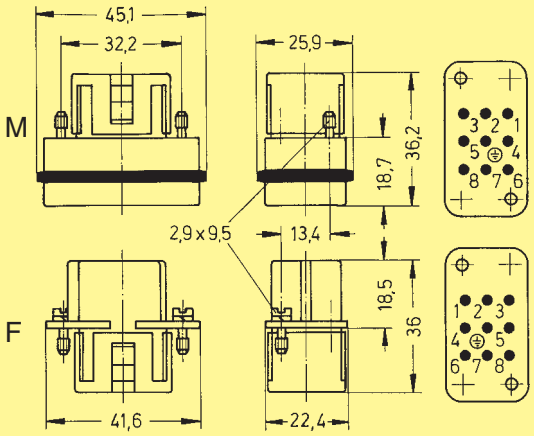
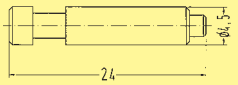
Han® Q 8/0

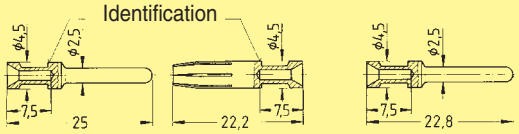
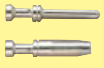
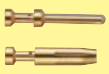
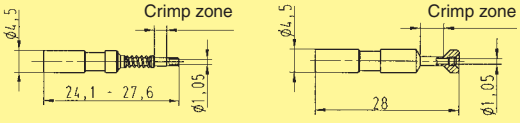
500 V 16 A

Number of contacts

8 + ⏚

Inserts

Identification	Part No. Male insert (M)	Part No. Female insert (F)	Drawing	Dimensions in mm
Crimp terminal Order crimp contacts separately	**09 12 008 3001**	**09 12 008 3101**	 Contact arrangement View from termination side	
Coding Pin	**09 33 000 9954**		Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert. 	

Identification	Wire gauge (mm²)	Part No. Male contacts	Part No. Female contacts	Drawing	Dimensions in mm
Crimp contacts Han E® contacts					
Power contacts	0.14-0.37	**09 33 000 6127***	09 33 000 6227*	Operating contact Identification / Relay contact 	
	0.5	**09 33 000 6121**	**09 33 000 6220**		
	0.75	**09 33 000 6114**	**09 33 000 6214**		
silver plated 	1.0	**09 33 000 6105**	**09 33 000 6205**		
	1.5	**09 33 000 6104**	**09 33 000 6204**		
	2.5	**09 33 000 6102**	**09 33 000 6202**		
	4.0	**09 33 000 6107**	**09 33 000 6207**		
	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**		
gold plated 	1.0	**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**		
	4.0	09 33 000 6119	**09 33 000 6221**		
Relay contacts					
	0.75-1	09 33 000 6109			
silver plated 	1.5	09 33 000 6110			
	2.5	09 33 000 6111			
FOC contacts for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321		

Crimp contact identification

Identification	Wire gauge		Stripping length
no groove	0.14-0.37 mm²	AWG 26-22	7.5 mm
no groove	0.5 mm²	AWG 20	7.5 mm
1 groove*	0.75 mm²	AWG 18	7.5 mm
1 groove	1 mm²	AWG 18	7.5 mm
2 grooves	1.5 mm²	AWG 16	7.5 mm
3 grooves	2.5 mm²	AWG 14	7.5 mm
no groove	4.0 mm²	AWG 12	7.5 mm

* on the back crimp collar

* only to be used with BUCHANAN crimping tool 09 99 000 0001 and adjustment gauge 09 99 000 0203

Stock items in bold type

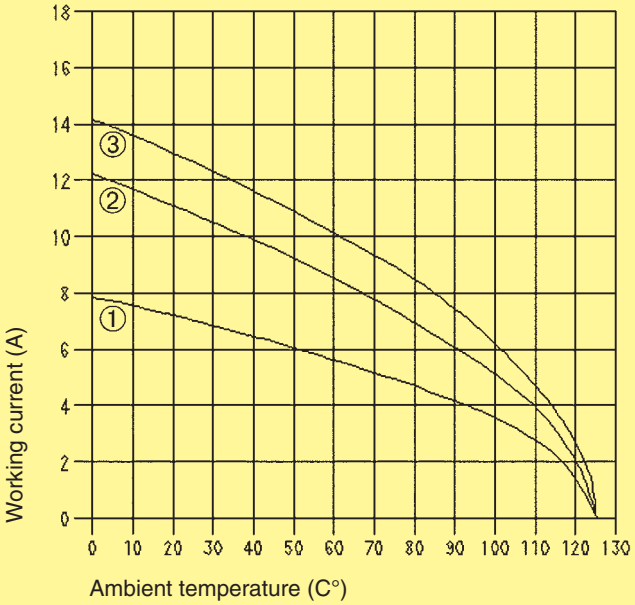
Features

- ❏ 17 contact chambers taking the control contacts of the series Han D® (10 A)
- ❏ Space-saving and compact design
- ❏ Leading protective ground
- ❏ Crimp terminal with standard Han D® contacts
- ❏ Use of standard tools
- ❏ Insert is suitable for the hoods and housings of the series Han-Compact®
- ❏ The contacts can be removed with the aid of a removal tool from the mating side

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum termperature.

Control and test procedures according to DIN IEC 60 512-3.



Wire gauge: ① 0.5 mm²
② 1.0 mm²
③ 1.5 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110
Approvals	cULus

Inserts

Number of contacts	17 + PE
Electrical data acc. to DIN EN 61 984	**10 A 250 V 4 kV 2**
Working current	
Working voltage	
Rated impulse voltage	
Pollution degree	
Working voltage acc. to UL	250 V
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	
Crimp terminal	< 3 mΩ
- mm²	0.14 - 2.5 mm²
- AWG	26 - 14

Plastic hoods/housings

Material	Polycarbonate RAL 9005
Locking element	Polyamide
Flammability acc. to UL 94	V 0
Hood/Housings seal	NBR
Limiting temperatures	– 40 °C / + 125 °C
Degree of protection acc. to DIN EN 40 050 in locked position	IP 65
Cable gland	Pg 16, M 25

Metal hoods/housings

Material	die cast zinc alloy
Locking element	V2A steel
Hoods/Housings seal	NBR
Limiting temperatures	– 40 °C / + 125 °C
Degree of protection acc. to DIN EN 60 529 in locked position	IP 65

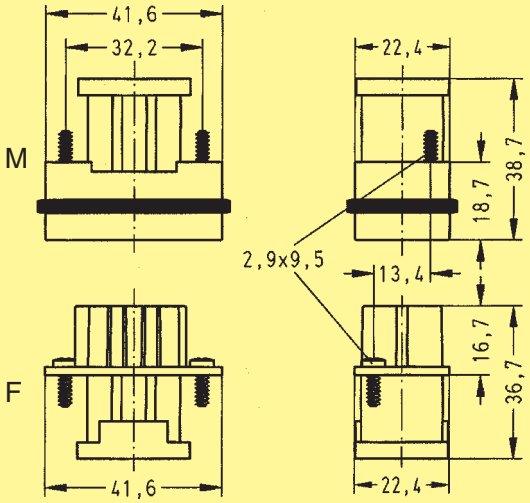
Accessories

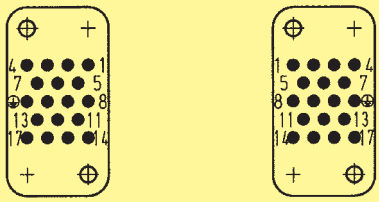
Crimping tools	chapter 99

Number of contacts

17 + ⏚

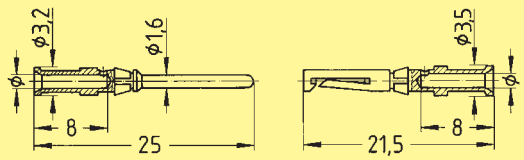
Inserts

Identification	Part No. Male insert (M)	Part No. Female insert (F)	Drawing	Dimensions in mm
Crimp terminal Order crimp contacts separately	**09 12 017 3001**	**09 12 017 3101**		

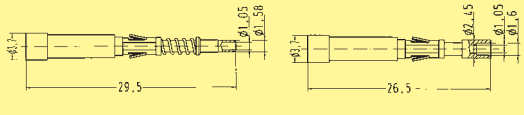


Contact arrangement
View from termination side

Identification	Wire gauge (mm²)	Part No. Male contacts	Part No. Female contacts	Drawing	Dimensions in mm
Crimp contacts Han D® contacts					
silver plated	0.14-0.37	**09 15 000 6104**	**09 15 000 6204**		
	0.5	**09 15 000 6103**	**09 15 000 6203**		
	0.75	**09 15 000 6105**	**09 15 000 6205**		
	1.0	**09 15 000 6102**	**09 15 000 6202**		
	1.5	**09 15 000 6101**	**09 15 000 6201**		
	2.5*	**09 15 000 6106**	**09 15 000 6206**		
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**		
	1.0	**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**		
FOC contacts for 1 mm plastic fibre		**20 10 001 3211**	20 10 001 3221		



Wire gauge		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.90 mm	8 mm
0.5 mm²	AWG 20	1.10 mm	8 mm
0.75 mm²	AWG 18	1.30 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm



* partly loaded insert

Stock items in bold type

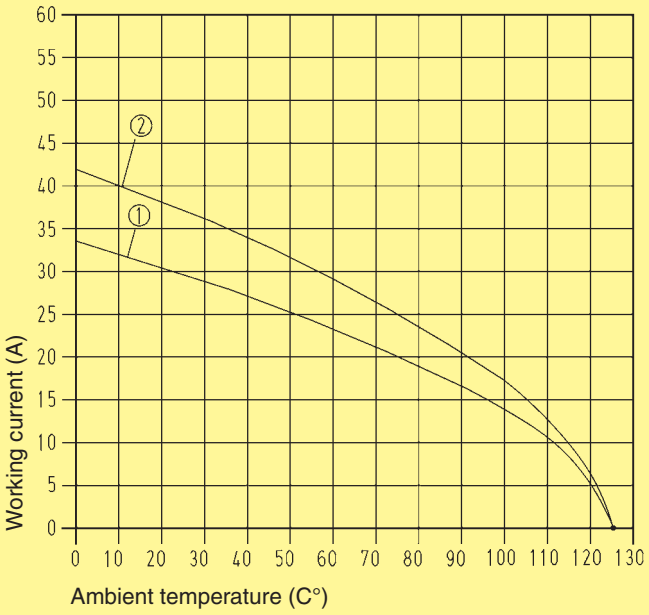
Features

- ❏ 4 power contacts Han® C 40 A
  2 signal contacts Han D® 10 A
- ❏ Leading protective ground
- ❏ Protection against contact with the fingers acc. IEC 60 529
- ❏ Insert is suitable for the hoods and housings of the series Han-Compact® (not suitable for 19 12 008 0501, 09 12 008 0301)
- ❏ The power contacts can be removed with the aid of a removal tool from the termination side
- ❏ 3 coding possibilities by using a coding pin instead of the fixing screw

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum termperature.

Control and test procedures according to DIN IEC 60 512-3.



Wire gauge ① 2,5 mm²
② 4 mm²

Technical characteristics

Specifications	DIN VDE 0627 DIN VDE 0110 DIN EN 61 984
Approvals	cULus

Inserts

Number of contacts	4/2 + PE
Electrical data acc. to DIN EN 61 984	
Power area	**40 A 400/690 V 6 kV 3**
Working current	
Working voltage	
Rated impulse voltage	
Pollution degree	
Signal area	**10 A 250 V 4 kV 3**
Working current	
Working voltage	
Rated impulse voltage	
Pollution degree	
Working voltage acc. to UL	600/250 V
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	≤ 0.3 mΩ
Crimp terminal	
- mm²	1.5 - 6 mm² / 0.14 - 2.5 mm²
- AWG	16 - 10 / 26 - 14
Max. insulation	
- Power contacts	ø = 5 mm

Plastic hoods/housings

Material	Polycarbonate RAL 9005
Locking element	Polyamide RAL 9005
Flammability acc. to UL 94	V 0
Hood/Housings seal	NBR
Limiting temperatures	– 40 °C / + 125 °C
Degree of protection acc. to DIN EN 60 529 in locked position	IP 65

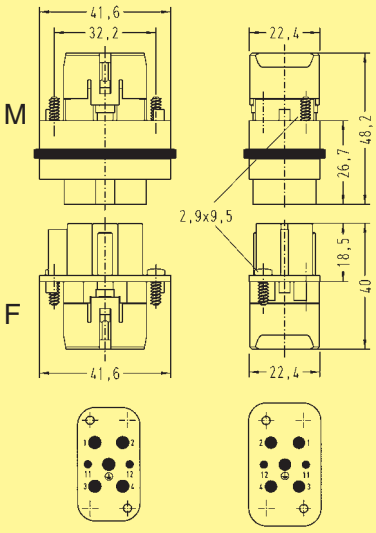
Accessories

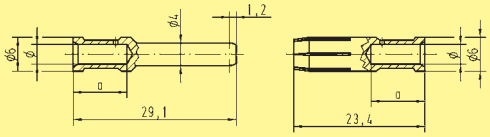
Crimping tools	chapter 99

Number of contacts

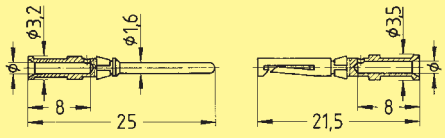
4/2 + ⏚

Inserts

Identification	Part No. Male insert (M)	Part No. Female insert (F)	Drawing	Dimensions in mm
Crimp terminal Order crimp contacts separately  	**09 12 006 3041**	**09 12 006 3141**		Contact arrangement View from termination side

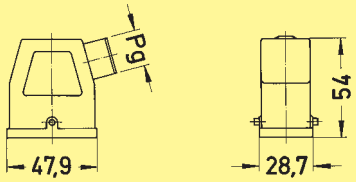
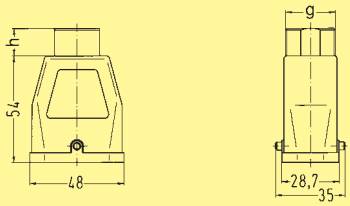
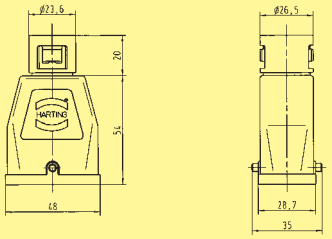
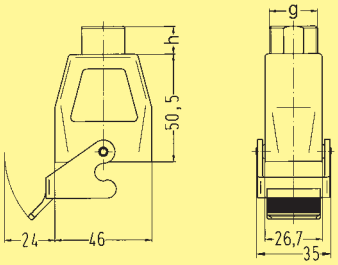
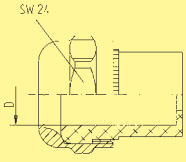
Identification	Wire gauge (mm²)	Part No. Male contacts	Part No. Female contacts	Drawing	Dimensions in mm
Crimp contacts Han C® contacts Power contacts silver plated 	2.5 4.0 6.0	**09 32 000 6105** **09 32 000 6107** **09 32 000 6108**	**09 32 000 6205** **09 32 000 6207** **09 32 000 6208**		

Wire gauge		ø	Stripping length
2.5 mm²	AWG 14	2.25	9
4.0 mm²	AWG 12	2.85	9.6
6.0 mm²	AWG 10	3.5	9.6

Identification	Wire gauge (mm²)	Part No. Male contacts	Part No. Female contacts	Drawing	Dimensions in mm
Crimp contacts Han D® contacts Signal contacts silver plated 	0.14-0.37 0.5 0.75 1.0 1.5 2.5*	**09 15 000 6104** **09 15 000 6103** **09 15 000 6105** **09 15 000 6102** **09 15 000 6101** **09 15 000 6106**	**09 15 000 6204** **09 15 000 6203** **09 15 000 6205** **09 15 000 6202** **09 15 000 6201** **09 15 000 6206**		
gold plated 	0.14-0.37 0.5 0.75 1.0 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**		

Wire gauge		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.90 mm	8 mm
0.5 mm²	AWG 20	1.10 mm	8 mm
0.75 mm²	AWG 18	1.30 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm

Stock items in bold type

Identification	Part No.		Drawing	Dimensions in mm
Hood thermoplastic Cable gland order separately 	**09 12 008 0527** **19 12 008 0526**	Pg 16 M 25		
Hood thermoplastic Cable gland order separately 	**09 12 008 0427** **19 12 008 0429**	Pg 16 M 25		h: 13 / Pg 16; 14 / M 25x1.5
Hood thermoplastic Cable gland order separately 	09 12 008 0428	PAFS 18		
Housing cable to cable thermoplastic  Cable gland order separately	09 12 008 0727 **19 12 008 0729**	Pg 16 M 25		h: 13 / Pg 16; 14 / M 25x1.5
Cable seal thermoplastic for hoods  Thrust bolt and insert	**09 00 000 5059** **19 12 000 5157** **19 12 000 5158**	Pg 16 M 25 M 25		

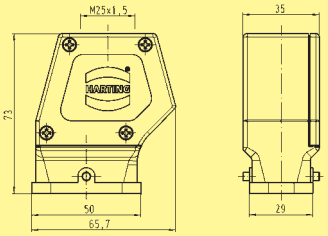
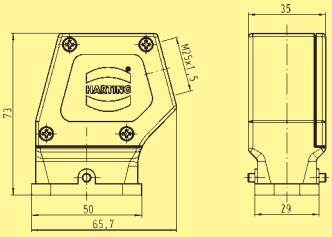
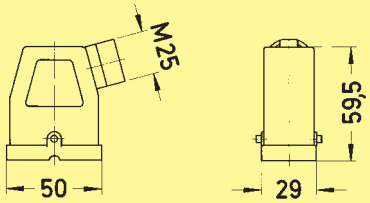
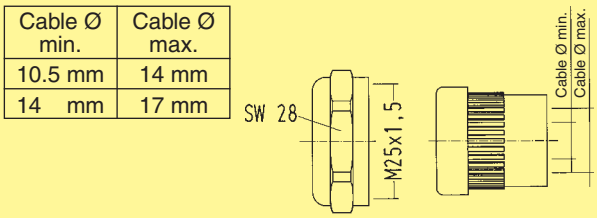
	Colour	SW	Cable min.	Cable max.
Pg 16	white	24	11.5 mm	15.5 mm
M 25			10.5 mm	14 mm
M 25			14 mm	17 mm

Hoods

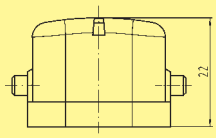
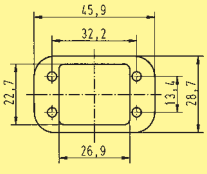
Han Q

Stock items in bold type

Housings

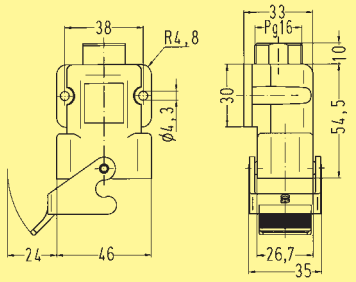
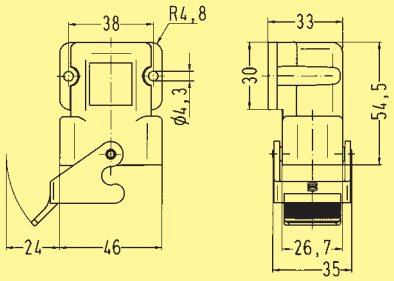
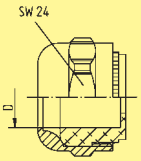
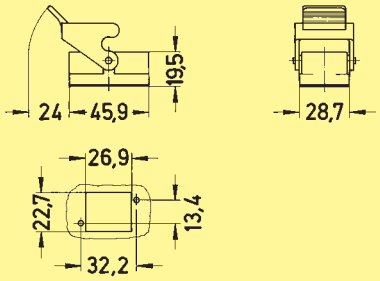
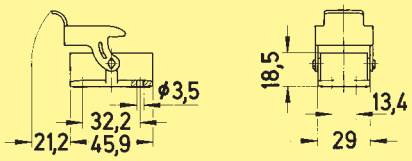
Identification	Part No.		Drawing	Dimensions in mm
Hood metal top-entry  Cable gland order separately	**19 12 008 0426**	M 25		
Hood metal side-entry  Cable gland order separately	**19 12 008 0526**	M 25		
Hood metal  Cable gland order separately	**19 12 008 0501**	M 25		
Cable seals metal  Thrust bolt, insert	**19 12 000 5057** **19 12 000 5058**	M 25 M 25		

Cable Ø min.	Cable Ø max.
10.5 mm	14 mm
14 mm	17 mm

Identification	Part No.		Drawing	Dimensions in mm
Protection covers thermoplastic 	for male insert without sealing 09 12 008 5407	for female insert with sealing 09 12 008 5408		
Gasket Han® Q 8/0 	09 12 000 9912			

Han Q

Stock items in bold type

Identification	Part No.		Drawing	Dimensions in mm
Housings				
Housing surface mounting thermo-plastic angled Cable gland order separately 	09 12 008 0901	Pg 16		
Housing bulkhead mounting thermo-plastic angled 	09 12 008 0902			
Cable seal thermoplastic for housings Thrust bolt and insert 	**09 00 000 5058**	Pg 16		
Housing bulkhead mounting thermoplastic 	**09 12 008 0327**			
Housing bulkhead mounting metal 	**09 12 008 0301**			

Han Q

Stock items in bold type

Han® Q Data RJ45

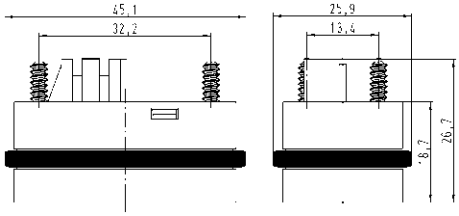
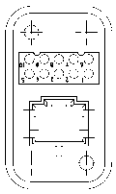
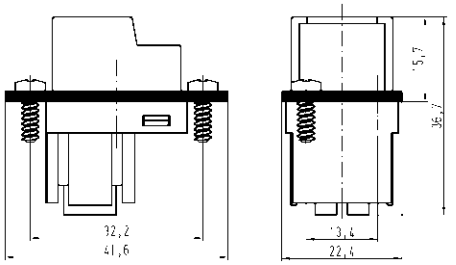
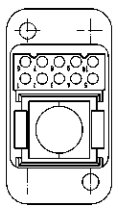
Features

- Combination connector
  - Ethernet connector based on RJ45
  - additionnally maximum 10 signal D-Sub contacts
- Compact design
- Crimp termination technology
- High contact density
- Turned D-Sub contacts of performance level1*
- Suitable for hoods and housings of series Han-Compact®

* Performance level 1 as per CECC 75 301-802, 500 mating cycles, 10 days 4 mixed gas test as per IEC 60 512

Technical characteristics

Ethernet connector	
Terminal	RJ45 accd. to IEC 60 603-7
Wire gauge	AWG 24 - 22 flexible AWG 23 - 22 solid
Transmission features	Cat5e
Number of contacts	4, shielded
Control connector	
Number of contacts	10
Electrical data	
accd. to DIN EN 61 984	5 A 50 V 0.8 kV 3
Rated current	
Rated voltage	
Rated impulse voltage	
Pollution degree	
Contact resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 / +125°C
Flammability accd. to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

Inserts	Part-Number	Drawing	Dimensions in mm
Han® Q Data RJ45 Male version	09 12 011 3001		
Han® Q Data RJ45 Female version	09 12 011 3101		
Order separately crimp contacts			

contact arrangement view termination side

Contacts	Wire gauge mm²	Part-Number Male contact	Part-Number Female contact
D-Sub contacts Turned Performance level 1*	AWG 22 - 20 0.33 - 0.52	61 03 000 0073	61 03 000 0074
	AWG 26 - 22 0.13 - 0.33	61 03 000 0094	61 03 000 0096