

**Specifications**

DIN VDE 0627  
DIN VDE 0110  
DIN EN 61 984

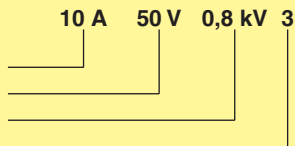
**Approvals**

SEV

**Inserts**

Number of contacts 6, 14, 20, 40 (2 x 20)

Electrical data  
acc. to DIN EN 61 984



Working current  
Working voltage  
Rated impulse voltage  
Pollution degree

Working voltage  
acc. to UL/CSA 50 V

Insulation resistance  $\geq 10^{10} \Omega$   
Material Polyamide  
Temperature range - 40 °C ... +100 °C  
Flammability acc. to UL 94 HB  
Mechanical working life  
- Mating cycles  $\geq 500$

**Contacts**

Material copper alloy  
Surface  
- hard-silver plated 3  $\mu\text{m}$  Ag  
Contact resistance  $\leq 2 \text{ m}\Omega$   
Screw terminal  
- mm<sup>2</sup> 1.5 mm<sup>2</sup>  
- AWG 16  
- Tightening/test torque 0.5 Nm  
Solder terminal  
- mm<sup>2</sup> 2.5 mm<sup>2</sup>  
- AWG 14

In accordance with the appropriate regulation a wire-end sleeve has to be used at clamps without wire protection (s. p. 00.12).

**Hoods/Housings thermoplastic, Size 3 A**

Material Polycarbonate RAL 7032  
Locking element Polyamide RAL 7032  
Flammability acc. to UL 94 V 0  
Hoods/Housings seal NBR  
Temperature range - 40 °C ... +125 °C  
Degree of protection acc. to DIN EN 60 529 for coupled connector IP 65<sup>1)</sup>

**Hoods/Housings metal**

Material Die cast aluminium alloy  
Material size 3 A Die cast zinc alloy  
Locking element Han-Easy Lock®  
Locking element size 3 A Steel, zinc plated  
Flammability acc. to UL 94 V 0  
Hoods/Housings seal NBR  
Temperature range - 40 °C ... +125 °C  
Degree of protection acc. to DIN EN 60 529 for coupled connector IP 65  
Size 3 A IP 44<sup>2)</sup>

Further selection  
of hoods/housings chapter 30 / chapter 31

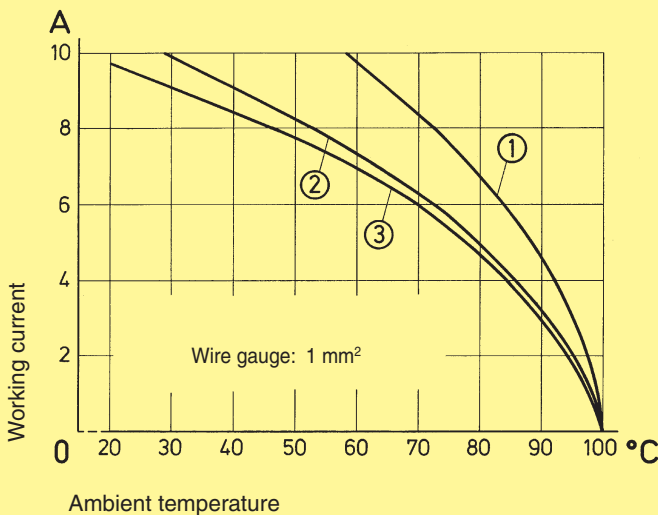
**Accessories**

Cable clamps chapter 40  
Coding of hoods/housings chapter 40  
Label acc. to CSA-approval chapter 40  
Test connectors chapter 20

**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.



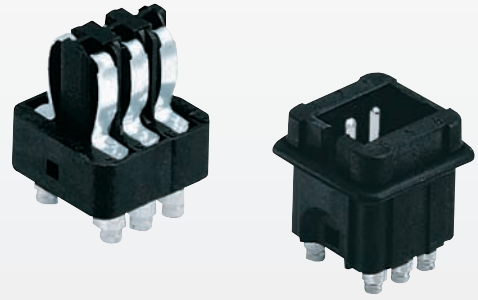
- ① Staf® 6
- ② Staf® 14
- ③ Staf® 20

<sup>1)</sup> without washer

<sup>2)</sup> IP 65 is achieved with seal screw 09 20 000 9918

Number of contacts

6



Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Female insert (M)	Male insert (F)		
<p>Screw terminal</p>	Staf®	<b>09 70 006 2813</b>	<b>09 70 006 2616</b>		<p>Contact arrangement View from termination side</p>
<p>Solder terminal</p>	Staf®	<b>09 70 006 2812</b>	<b>09 70 006 2615</b>		<p>Contact arrangement View from termination side</p> <p>Mounting example</p>

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Identification		Part No.	M	Drawing	Dimensions in mm
Hoods	Hood side-entry	<b>19 20 003 1640</b>	20		
	Hood top-entry	<b>19 20 003 1440</b>	20		
	Protection covers for hoods	<b>09 20 003 5422<sup>1)</sup></b> <b>09 20 003 5421<sup>2)</sup></b>			
Housings	Housings bulkhead mounting	<b>09 20 003 0301</b>			Panel cut out 22 x 22 mm
	Housing surface mounting	<b>09 20 003 0801</b>			
	Housing 1 side-entry	<b>19 20 003 1250</b>	20		
	Housing bottom closed	<b>19 20 003 1252</b>	20		
	Housing screw mounting	<b>19 20 003 1150</b>	20		
	Hood cable to cable	<b>19 20 003 1750</b>	20		
	Protection covers for housings	<b>09 20 003 5426<sup>1)</sup></b> <b>09 20 003 5425<sup>2)</sup></b>			
	for hoods cable to cable	<b>09 20 003 5428<sup>1)</sup></b> <b>09 20 003 5427<sup>2)</sup></b>			

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<sup>1)</sup> for mounted male insert <sup>2)</sup> for mounted female insert

Identification		Part No.	M	Drawing	Dimensions in mm
Hoods	Hoods side-entry	grey <b>19 20 003 0620</b> schwarz 19 20 003 0627	20 20		
	Hoods top-entry	grey <b>19 20 003 0420</b> schwarz 19 20 003 0427	20 20		
	Protection covers for hoods	09 20 003 5442 <sup>1)</sup> 09 20 003 5441 <sup>2)</sup>			
Housings bulkhead mounting		grey <b>09 20 003 0320</b>	—		
		grey <b>09 20 003 0820</b>	—		
Housings surface mounting		1 side-entry	grey <b>19 20 003 0220</b>	20	
Hoods cable to cable		grey <b>19 20 003 0720</b> schwarz 19 20 003 0727	20 20		
Protection covers for housings	A	09 20 003 5407 <sup>1)</sup> <sup>3)</sup> 09 20 003 5408 <sup>2)</sup> <sup>3)</sup>			
	B	09 20 003 5446 <sup>1)</sup> 09 20 003 5445 <sup>2)</sup>			
	C	09 20 003 5448 <sup>1)</sup>			
	for hoods cable to cable				

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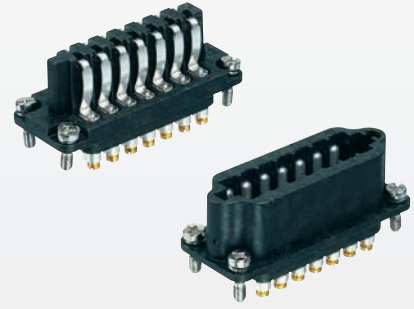
09  
13

<sup>1)</sup> for mounted male insert  
<sup>2)</sup> for mounted female insert  
<sup>3)</sup> for metal housings and cable to cable hoods also

Stock items in bold type

Number of contacts

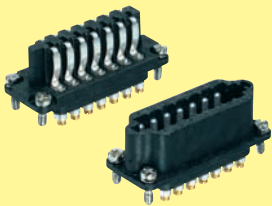
14



Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Female insert (M)	Male insert (F)		

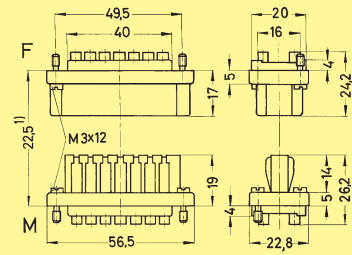
Screw terminal



Staf®

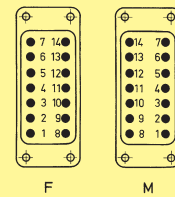
**09 70 014 2811**

**09 70 014 2614**

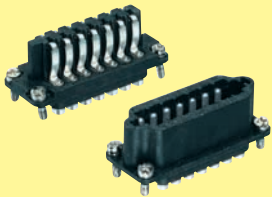


<sup>1)</sup> Distance for contact max. 24 mm

Contact arrangement View from termination side



Solder terminal

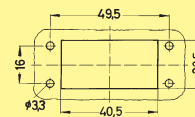


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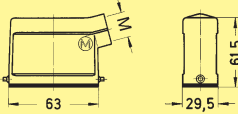
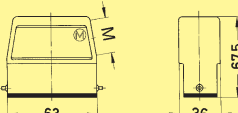

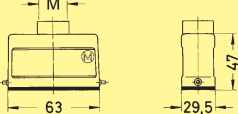
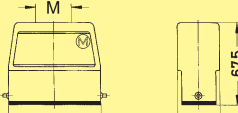

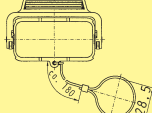

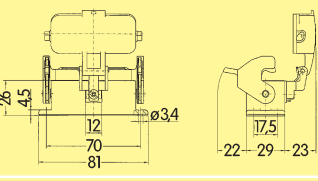

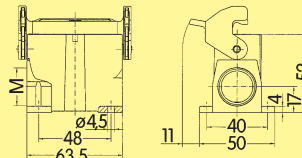
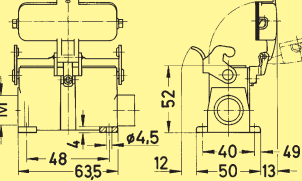

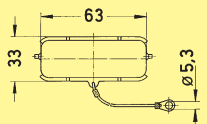
**09 70 014 2810**

**09 70 014 2613**

Panel cut out for inserts for use without hoods/housings



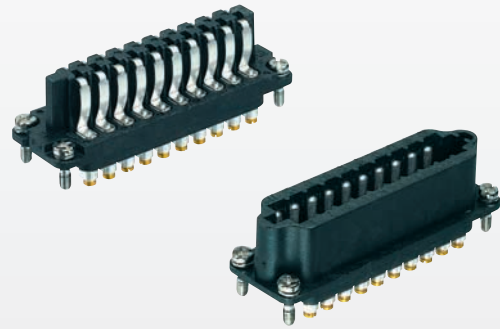
Staf

Identification	Part No.			Drawing	Dimensions in mm
	Low construction	High construction	M		
Hoods	<b>Hoods side-entry</b> 	<b>19 20 010 1540</b>		20	
			<b>19 20 010 0546</b>	25	
	<b>Hoods top-entry</b> 	<b>19 20 010 1440</b>		20	
			<b>19 20 010 0446</b>	25	
	<b>Protection covers for hoods</b> 	<b>09 20 010 5423</b>			
	Housings	<b>Housings bulkhead mounting</b> 	<b>09 20 010 0301</b>		—
with thermo-plastic cover <b>09 20 010 0321<sup>1)</sup></b>				—	
<b>Housings surface mounting</b> 		1 side-entry <b>19 20 010 0251</b>		1 x 25	
		2 side-entries <b>19 20 010 0290</b>		2 x 20	
		with metal cover <b>19 20 010 0295</b>		2 x 20	
<b>Protection covers for housings</b> 		<b>09 20 010 5425</b>			

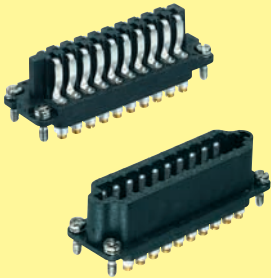
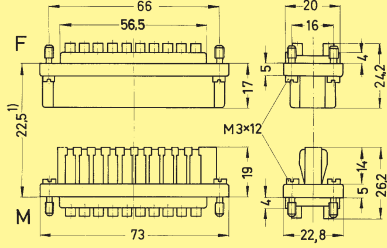
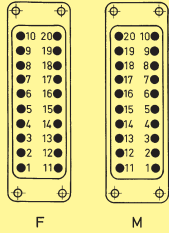
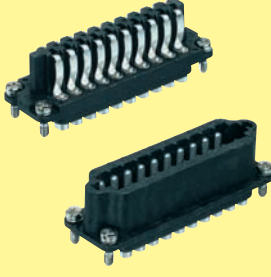
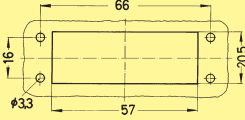
<sup>1)</sup> for female insert

Number of contacts


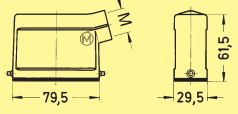
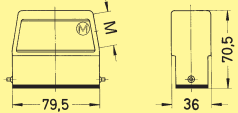

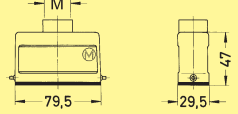
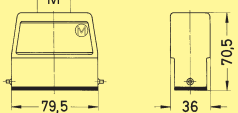

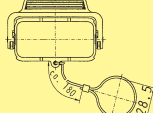

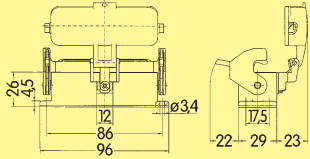

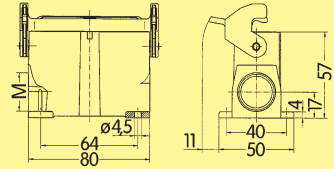
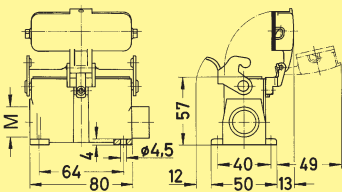

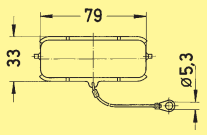
20



Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Female insert (M)	Male insert (F)		
<p>Screw terminal</p> 	Staf®	<p><b>09 70 020 2817</b></p>	<p><b>09 70 020 2622</b></p>	 <p><sup>1)</sup> Distance for contact max. 24 mm</p> <p>Contact arrangement View from termination side</p> 	
<p>Solder terminal</p> 	Staf®	<p><b>09 70 020 2816</b></p>	<p><b>09 70 020 2621</b></p>	<p>Panel cut out for inserts for use without hoods/housings</p> 	

Staf

Identification	Part No.			Drawing	Dimensions in mm
	Low construction	High construction	M		
Hoods	<b>Hoods side-entry</b> 	<b>19 20 016 1540</b>		20	
			<b>19 20 016 0546</b>	25	
	<b>Hoods top-entry</b> 	<b>19 20 016 1440</b>		20	
			<b>19 20 016 0446</b>	25	
	<b>Protection covers for hoods</b> 	<b>09 20 016 5423</b>			
	Housings	<b>Housings bulkhead mounting</b> 	<b>09 20 016 0301</b>		—
with thermo-plastic cover <b>09 20 016 0321<sup>1)</sup></b>				—	
<b>Housings surface mounting</b> 		1 side-entry <b>19 20 016 0251</b>		1 x 25	
		2 side-entries <b>19 20 016 0290</b>		2 x 20	
		with metal cover <b>19 20 010 0295</b>		2 x 20	
<b>Protection covers for housings</b> 		<b>09 20 016 5425</b>			

<sup>1)</sup> for female insert