

**Staf®**

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**Specifications**  
 DIN VDE 0627  
 DIN VDE 0110  
 DIN EN 61 984

**Approvals**

**Inserts**  
 Number of contacts 6, 14, 20, 40 (2 x 20)  
 Electrical data acc. to DIN EN 61 984  
 Working current 10 A  
 Working voltage ~ 25 V / – 60 V  
 Working voltage acc. to UL/CSA 50 V  
 Insulation resistance  $\geq 10^{10} \Omega$   
 Material Polyamide  
 Limiting temperatures - 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  
 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  
 Limiting temperatures - 40 °C / +125 °C  
 Degree of protection acc. to DIN EN 60 529 for coupled connector IP 44

**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  
 Limiting temperatures - 40 °C / +125 °C  
 Degree of protection acc. to DIN EN 60 529 for coupled connector IP 44

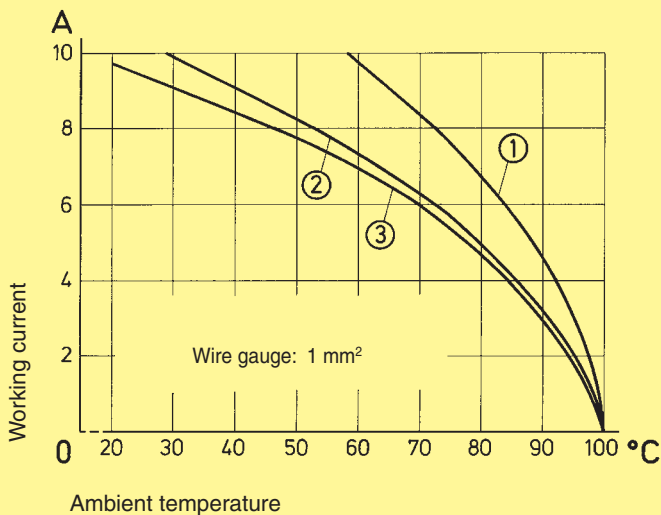
Further selection of hoods/housings chapter 30 / chapter 31

**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.




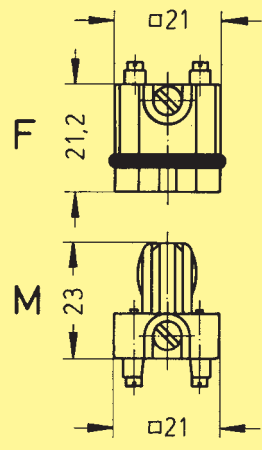
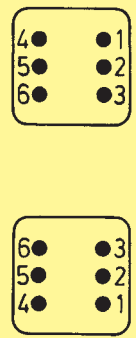

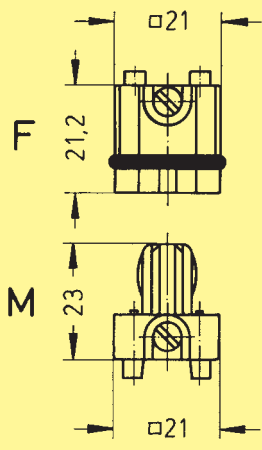
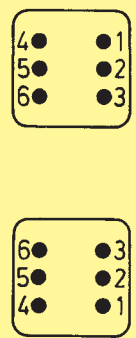
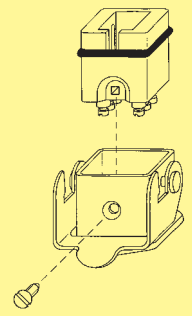
- ① Staf® 6
- ② Staf® 14
- ③ Staf® 20

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>			
	with fixed cover	<b>09 20 003 0305<sup>1)</sup></b>			
	without sealing	<b>09 20 003 0306<sup>2)</sup></b>			
	with sealing	<b>09 20 003 0801</b>			
Housings	Housing surface mounting				
	1 side-entry	<b>19 20 003 1250</b>	20		
	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 19 20 003 0620 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	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 <b>09 20 003 5407<sup>1)3)</sup></b> <b>09 20 003 5408<sup>2)3)4)</sup></b> B <b>09 20 003 5445<sup>2)</sup></b> 09 20 003 5446 <sup>1)</sup> 09 20 003 5447 <sup>2)3)4)</sup> for hoods cable to cable C <b>09 20 003 5448<sup>1)</sup></b>			

Staff

09  
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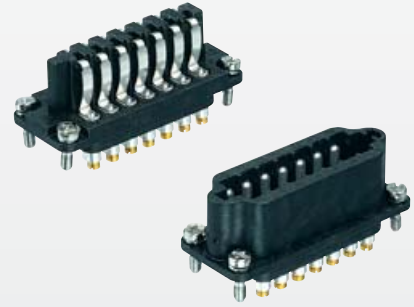
<sup>1)</sup> for mounted male insert  
<sup>2)</sup> for mounted female insert

<sup>3)</sup> for metal housings and cable to cable hoods also  
<sup>4)</sup> for mounted Han-Brid® male and female insert

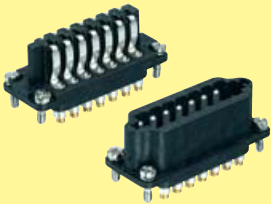
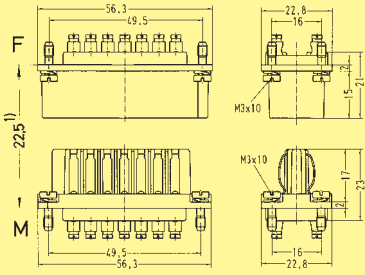
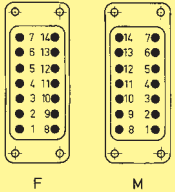
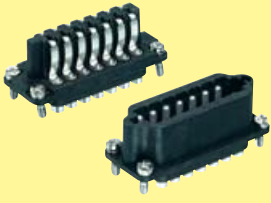
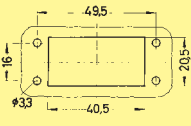
Stock items in bold type

Number of contacts


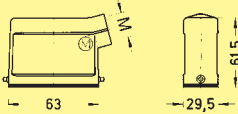
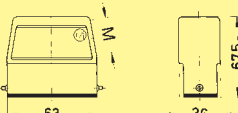

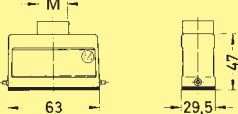
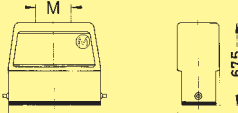

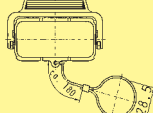

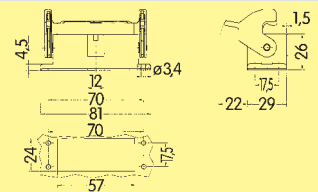
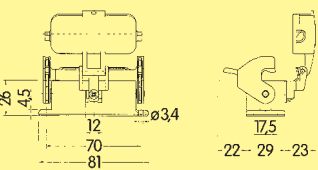

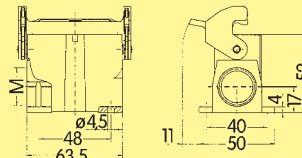
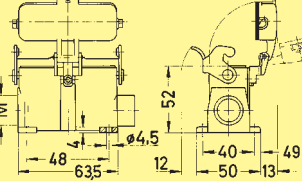

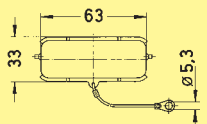
14



Inserts


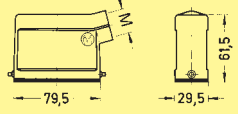
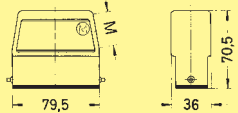

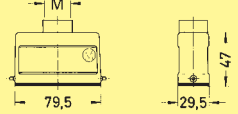


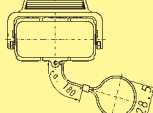

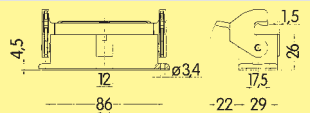
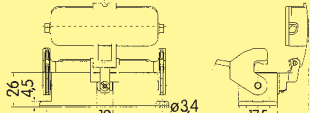

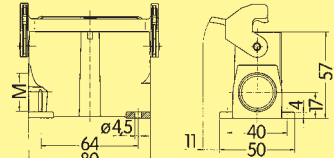
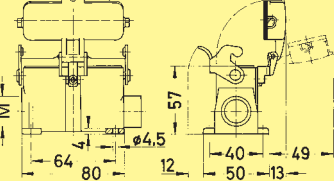
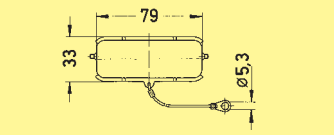

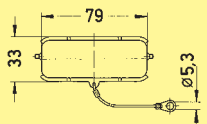
Identification	Series	Part No.		Drawing	Dimensions in mm
		Female insert (M)	Male insert (F)		
<p>Screw terminal</p> 	Staf®	<b>09 70 014 2811</b>	<b>09 70 014 2614</b>	 <p><sup>1)</sup> Distance for contact max. 24 mm</p> <p>Contact arrangement View from termination side</p> 	
<p>Solder terminal</p> 	Staf®	<b>09 70 014 2810</b>	<b>09 70 014 2613</b>	<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> 	19 20 010 1540		20		
			19 20 010 0546	25		
	<b>Hoods top-entry</b> 	19 20 010 1440		20		
			19 20 010 0446	25		
	<b>Protection covers for hoods</b> 	09 20 010 5423				Staf
	Housings	<b>Housings bulkhead mounting</b> 	09 20 010 0301		—	
with thermo-plastic cover 09 20 010 0321				—		
<b>Housings surface mounting</b> 		1 side-entry 19 20 010 0251		1 x 25		
		2 side-entries 19 20 010 0290		2 x 20		
		with thermo-plastic cover 19 20 010 0295		2 x 20		
<b>Protection covers for housings</b> 		09 20 010 5425				



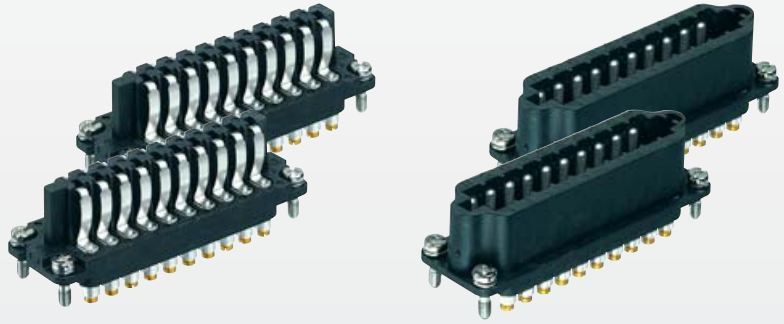


Identification	Part No.			Drawing	Dimensions in mm	
	Low construction	High construction	M			
Hoods	<b>Hoods side-entry</b> 	19 20 016 1540		20		
			19 20 016 0546	25		
	<b>Hoods top-entry</b> 	19 20 016 1440		20		
			19 20 016 0446	25		
	<b>Protection covers for hoods</b> 	09 20 016 5423				Staf
	Housings	<b>Housings bulkhead mounting</b> 	09 20 016 0301		—	
with thermo-plastic cover 09 20 016 0321				—		
<b>Housings surface mounting</b> 		1 side-entry 19 20 016 0251		1 x 25		
		2 side-entries 19 20 016 0290		2 x 20		
		with thermo-plastic cover 19 20 016 0295		2 x 20		
<b>Protection covers for housings</b> 		09 20 016 5425				09 17

Number of contacts

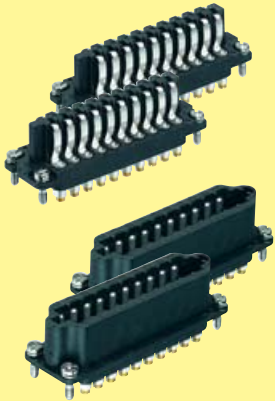
40

Inserts



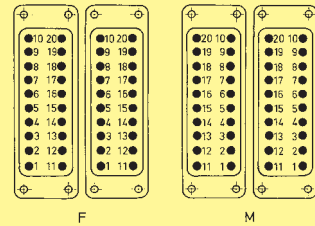
Identification	Series	Part No.		Drawing	Dimensions in mm
		Female insert (M)	Male insert (F)		

Screw terminal



Staf®				Dimensions for inserts see page 09.16
1-20	<b>09 70 020 2817</b>	<b>09 70 020 2622</b>		
1-20	<b>09 70 020 2817</b>	<b>09 70 020 2622</b>		

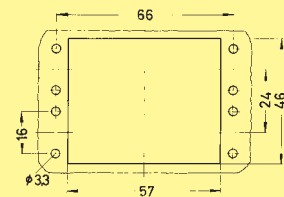
Contact arrangement View from termination side




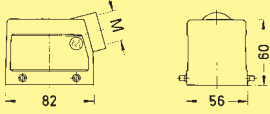
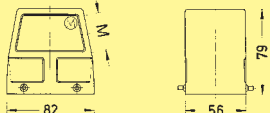

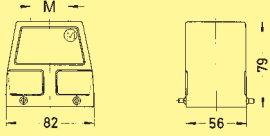



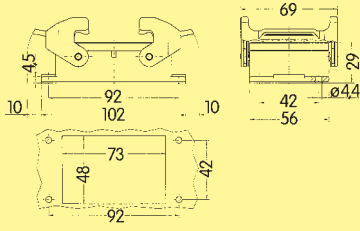

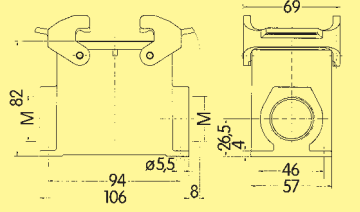


Solder terminal



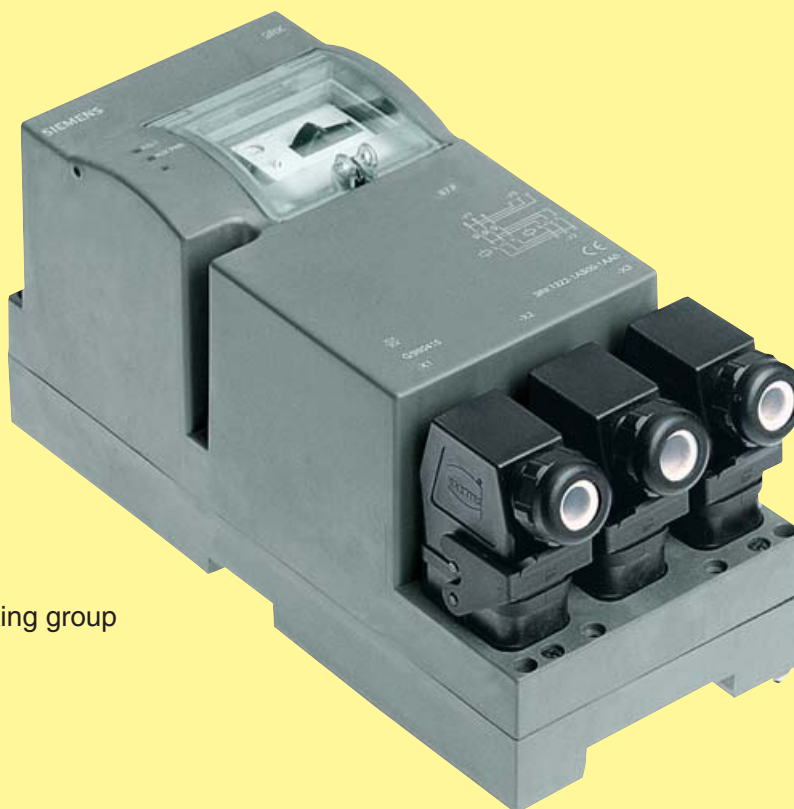
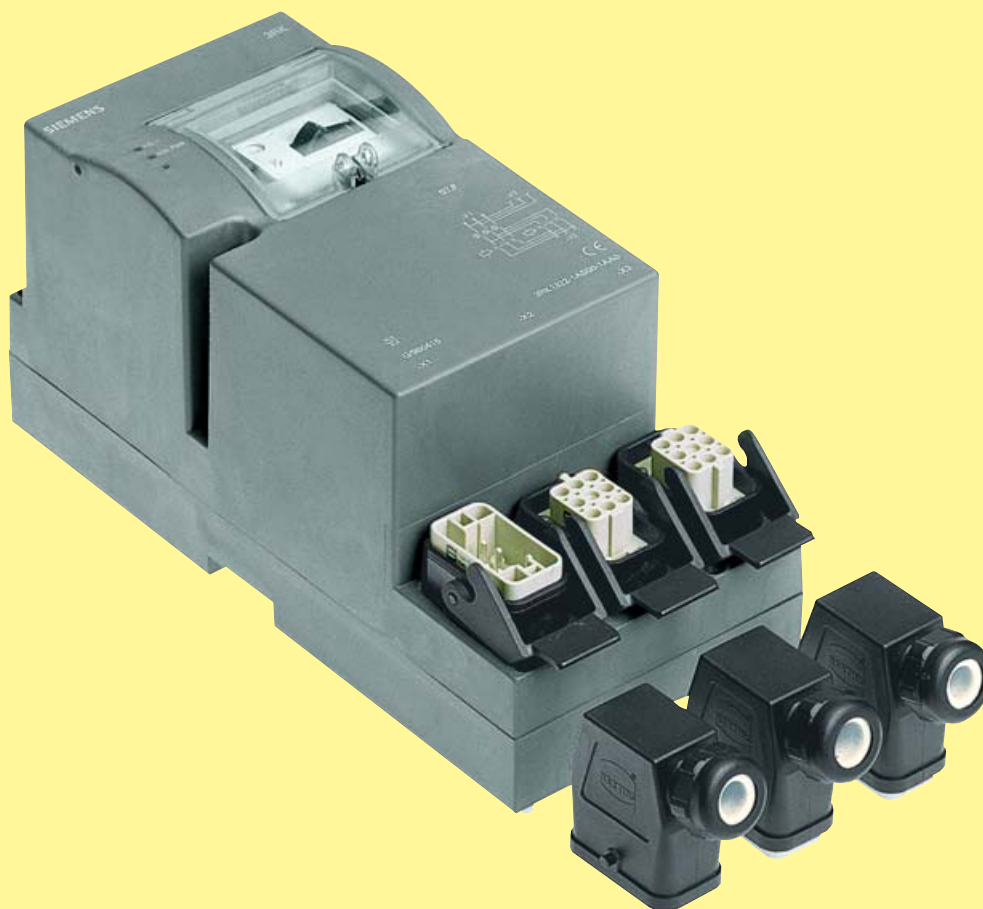
Staf®				Panel cut out for inserts for use without hoods/housings
1-20	<b>09 70 020 2816</b>	<b>09 70 020 2621</b>		
1-20	<b>09 70 020 2816</b>	<b>09 70 020 2621</b>		



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Identification	Part No.			Drawing	Dimensions in mm	
	Low construction	High construction	M			
Hoods	<b>Hoods side-entry</b> 	<b>19 20 032 1521</b>		25	 	
			<b>19 20 032 0527</b>	32		
	<b>Hoods top-entry</b> 		19 20 032 0427		32	
<b>Protection cover</b> 			09 20 032 5401	—		
Housings	<b>Housing bulkhead mounting</b> 		<b>09 20 032 0301</b>		—	 <p>Panel cut out</p>
	<b>Housings surface mounting</b> 		<b>19 20 032 0231</b>	1 x 25	 <p>Blind way for one cable entry</p>	
		1 side-entry	<b>19 20 032 0232</b>	1 x 32		
		2 side-entries	<b>19 20 032 0272</b>	2 x 32		
<b>Protection cover</b> 			09 20 032 5405			

Staf



Han® Q 8/0 is recommended by the working group

**DESINA**®

Decentralized motor control  
Fa. Siemens AG, A & D CD SV VM K

Staf