

**Staf®**

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Staf

**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  $-40^{\circ}\text{C} / +100^{\circ}\text{C}$   
 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  
 -  $\text{mm}^2$  1.5  $\text{mm}^2$   
 - AWG 16  
 - Tightening/test torque 0.5 Nm  
 Solder terminal  
 -  $\text{mm}^2$  2.5  $\text{mm}^2$   
 - 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  $-40^{\circ}\text{C} / +125^{\circ}\text{C}$   
 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  $-40^{\circ}\text{C} / +125^{\circ}\text{C}$   
 Degree of protection acc. to DIN EN 60 529 for coupled connector IP 44

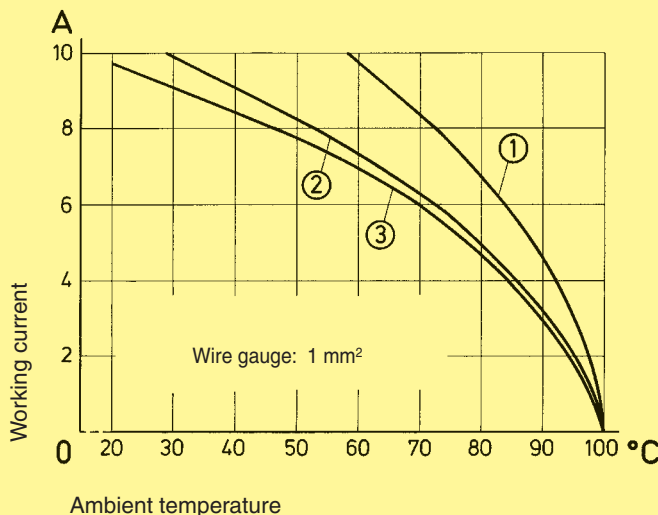
Further selection of hoods/housings chapter 30 / chapter 31

**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 5 1 2-5.




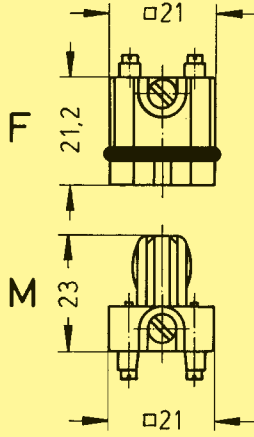
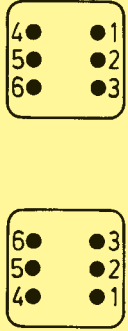

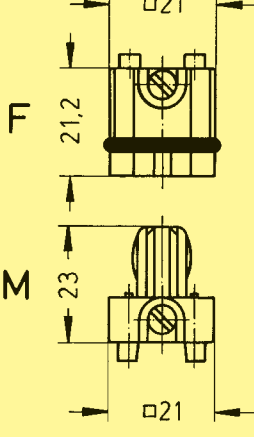
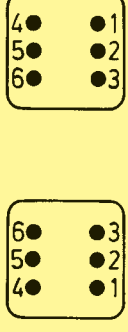
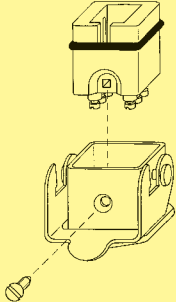
- ① Staf® 6
- ② Staf® 14
- ③ Staf® 20

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>			
	Housing surface mounting	<b>19 20 003 1250</b>	20		
	1 side-entry	<b>19 20 003 1252</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>				
Protection covers for hoods cable to cable	<b>09 20 003 5428<sup>1)</sup></b> <b>09 20 003 5427<sup>2)</sup></b>				

<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 09 20 003 5407 <sup>1)3)</sup> <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> C 09 20 003 5448 <sup>1)</sup>			

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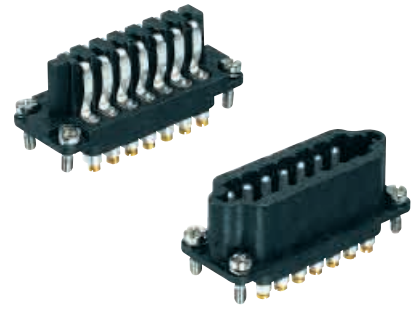
1) for mounted male insert  
2) for mounted female insert

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

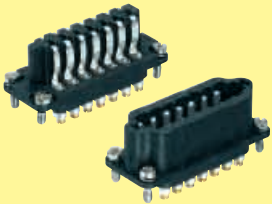
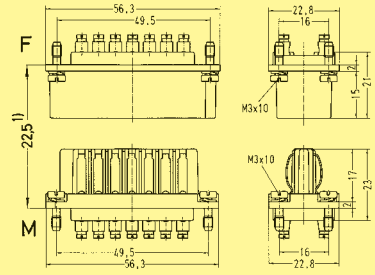
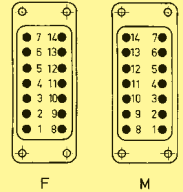
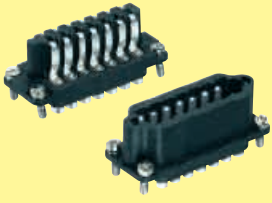
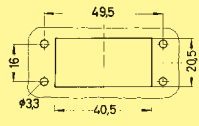
Stock items in bold type

Number of contacts


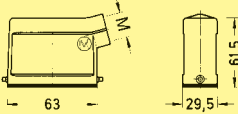
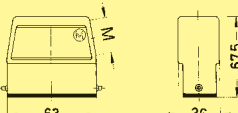

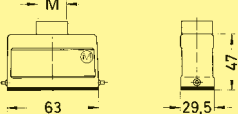
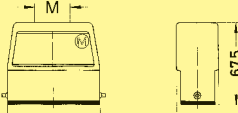

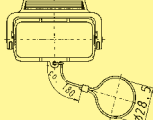

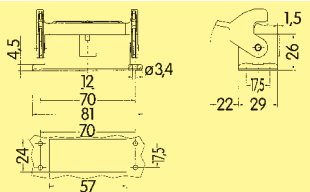
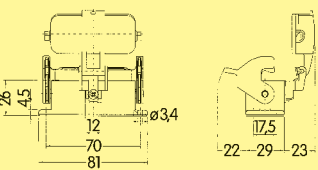

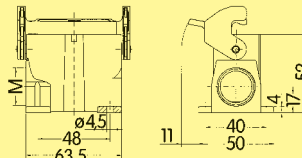
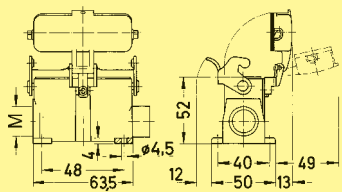

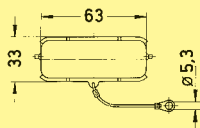
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Inserts

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>1) 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> 	


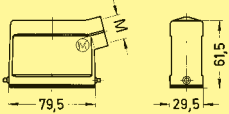
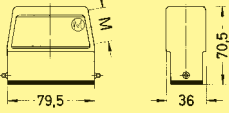

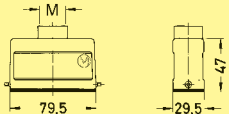
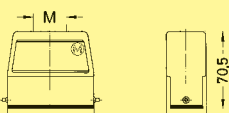

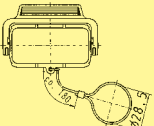

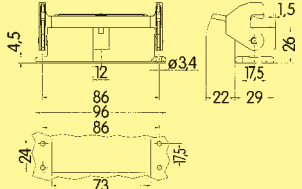
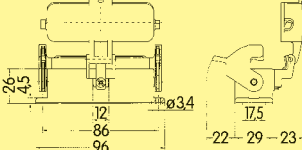

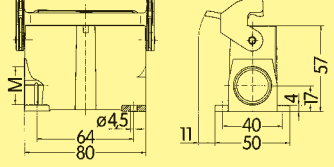
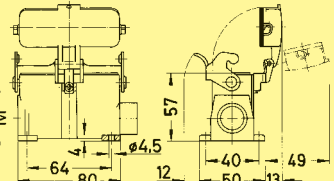
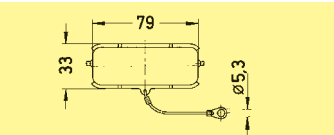

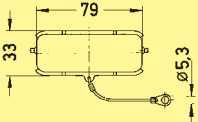
Stock items in bold type

Identification	Part No.		M	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods	<b>Hoods side-entry</b> 	19 20 010 1540	20		63, 29,5, 61,5
		19 20 010 0546	25		63, 36, 67,5
	<b>Hoods top-entry</b> 	19 20 010 1440	20		63, 47, 29,5
		19 20 010 0446	25		63, 36, 67,5
	<b>Protection covers for hoods</b> 	09 20 010 5423			
Housings	<b>Housings bulkhead mounting</b> 	09 20 010 0301	—		4,5, 12, 70, 81, 70, 24, 57, 17,5, 22, 29, 1,5, 26
		with thermo-plastic cover 09 20 010 0321	—		26, 4,5, 12, 70, 81, 17,5, 22, 29, 23
	<b>Housings surface mounting</b>  1 side-entry      19 20 010 0251 2 side-entries      19 20 010 0290 with thermo-plastic cover 19 20 010 0295		1 x 25		4,5, 48, 63,5, 11, 40, 50, 17,52
		2 x 20		48, 63,5, 52, 12, 40, 50, 13, 49	
	<b>Protection covers for housings</b> 	09 20 010 5425			63, 33, 5,3

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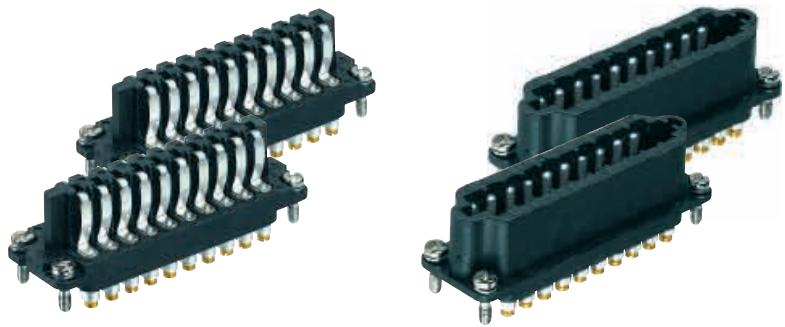


Identification	Part No.		M	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods	<b>Hoods side-entry</b> 	19 20 016 1540	20		
		19 20 016 0546	25		
	<b>Hoods top-entry</b> 	19 20 016 1440	20		
		19 20 016 0446	25		
<b>Protection covers for hoods</b> 	09 20 016 5423				
Housings	<b>Housings 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				

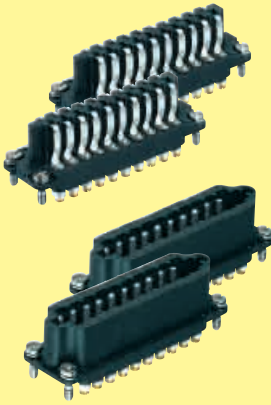
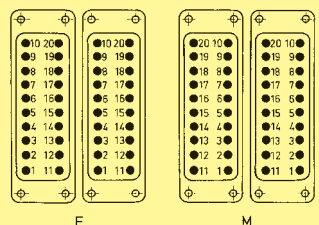

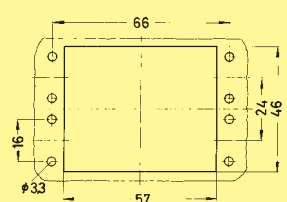
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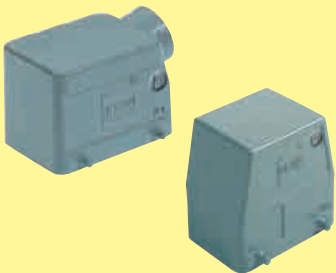
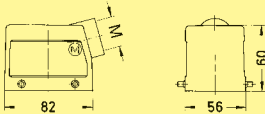
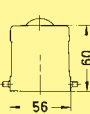
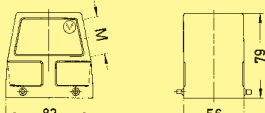
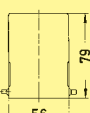

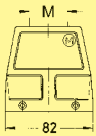
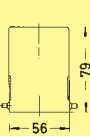

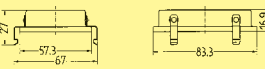
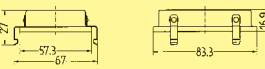

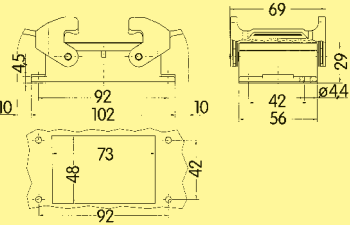
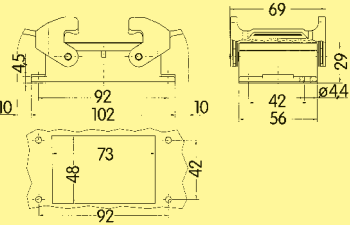

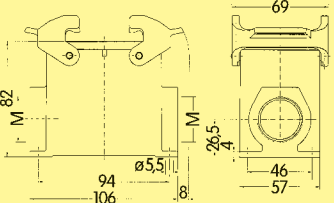
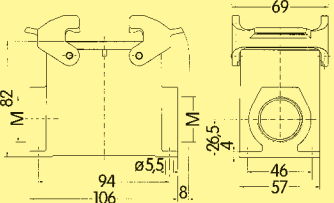


Number of contacts

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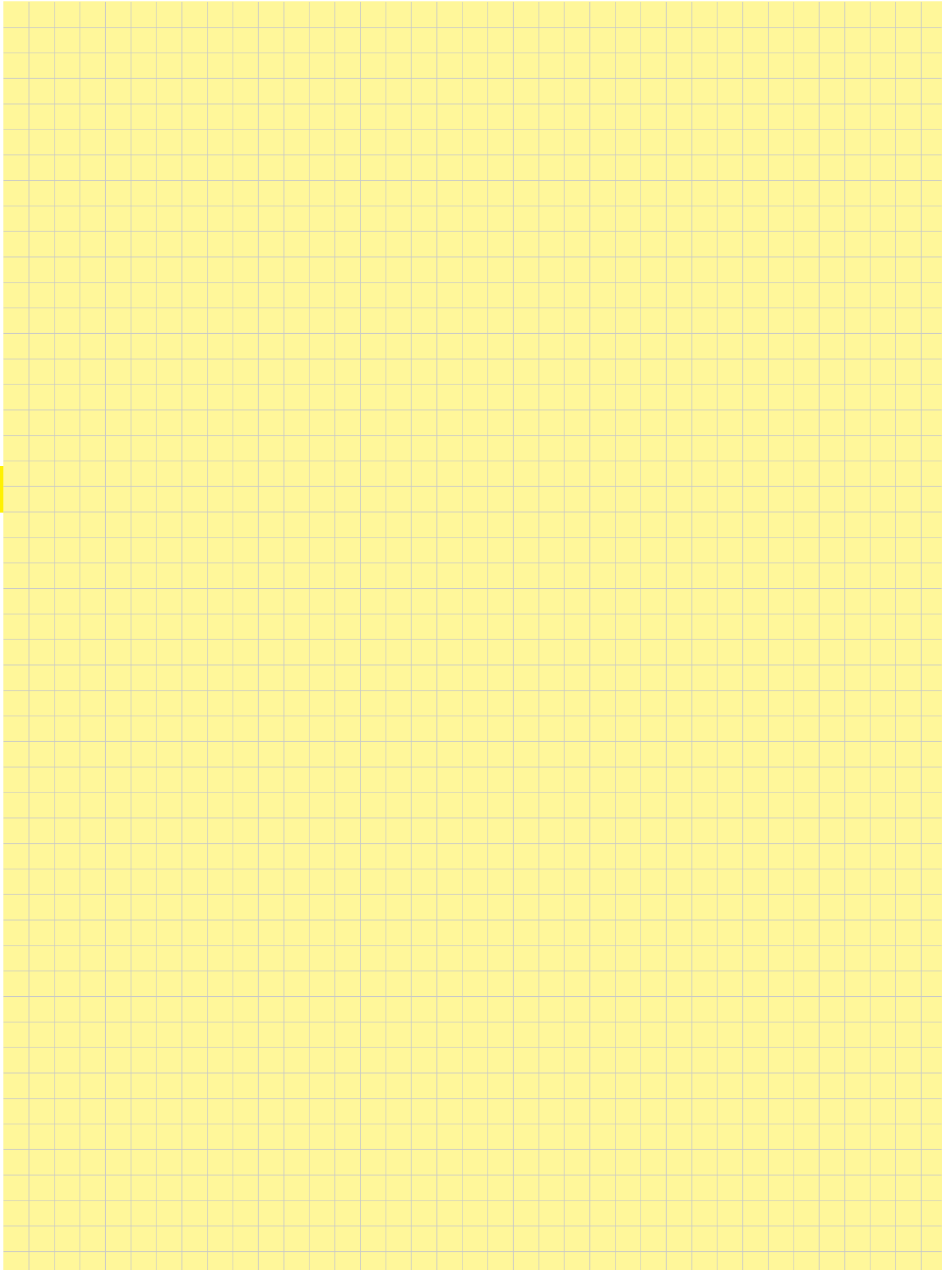


Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Female insert (M)	Male insert (F)		
<p>Screw terminal</p> 	<p>Staf®</p> <p>1-20 1-20</p>	<p><b>09 70 020 2817</b> <b>09 70 020 2817</b></p>	<p><b>09 70 020 2622</b> <b>09 70 020 2622</b></p>	<p>Dimensions for inserts see page 09.16</p> <p>Contact arrangement View from termination side</p> 	
<p>Solder terminal</p> 	<p>Staf®</p> <p>1-20 1-20</p>	<p><b>09 70 020 2816</b> <b>09 70 020 2816</b></p>	<p><b>09 70 020 2621</b> <b>09 70 020 2621</b></p>	<p>Panel cut out for inserts for use without hoods/housings</p> 	

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> 		<b>19 20 032 0427</b>	32		
	<b>Protection cover</b> 		<b>09 20 032 5401</b>	—		
Housings	<b>Housing bulkhead mounting</b> 	<b>09 20 032 0301</b>		—		
	<b>Housings surface mounting</b> 		<b>19 20 032 0231</b> 19 20 032 0232 <b>19 20 032 0272</b>	1 x 25 1 x 32 2 x 32	 Panel cut out Blind way for one cable entry	
	<b>Protection cover</b> 		<b>09 20 032 5405</b>		—	

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