

**Staf**

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**Specifications**

DIN VDE 0627  
DIN VDE 0110

**Approvals**

SEV, BVS,  
CERCHAR, SABS

**Inserts**

Number of contacts 6, 14, 20, 40 (2 x 20)  
Working current 10 A max.  
(see current carrying capacity)  
Working voltage 25 V ~ / 60 V –  
Test voltage  $U_{rms}$  1.5 kV  
Pollution degree 3 (C)  
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  $\geq 500$   
Working voltage acc. to UL/CSA 50 V

**Contacts**

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

**Hoods/Housings**

Material die cast aluminium alloy  
Staf 6 additional thermoplastic resin  
Flammability acc. to UL 94 V 0  
Surface powder-coated RAL 7037  
Locking element Steel, zinc plated  
Hoods/Housings sealing NBR  
Temperature range - 40 °C ... +125 °C  
Degree of protection acc. to DIN 40 050 for coupled connector IP 65 in plastic housings  
Staf 6 IP 44 in metal housings  
  
Further selection of hoods/housings chapter 30

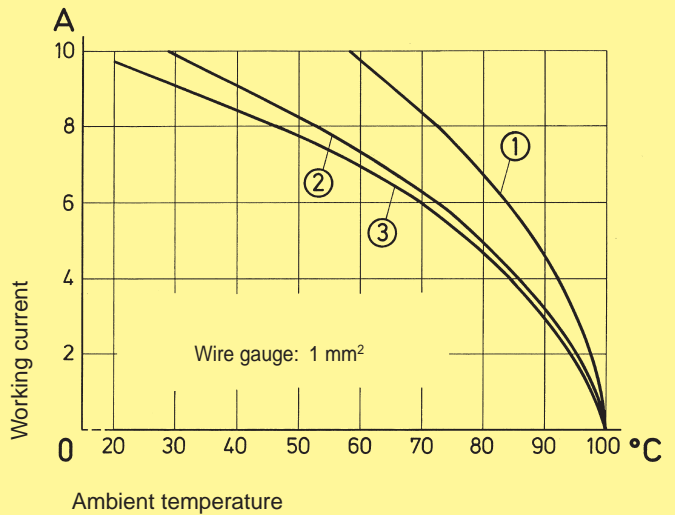
**Accessories**

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.



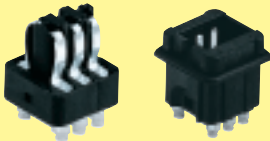
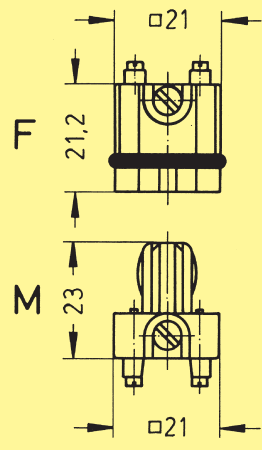
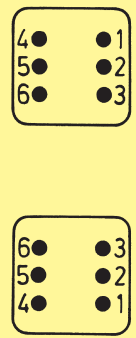

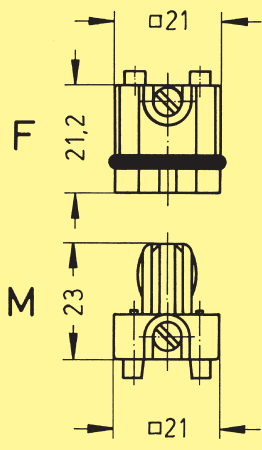
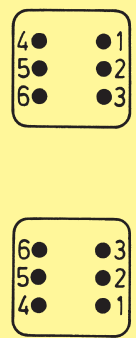
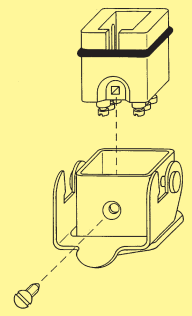
- ① Staf 6
- ② Staf 14
- ③ Staf 20

Number of contacts


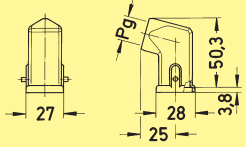

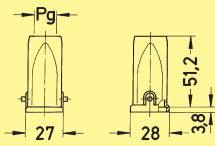
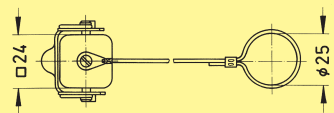

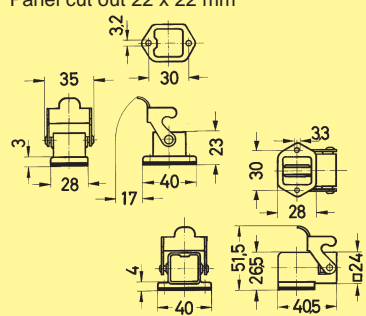

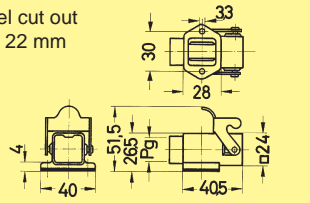

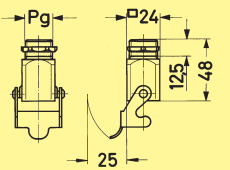

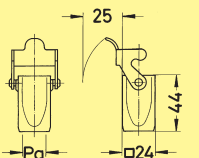
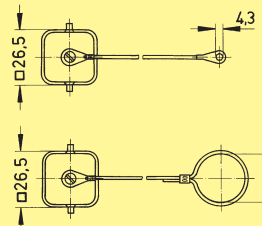
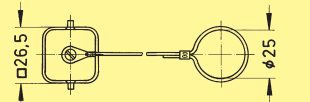
6



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> 	

Staf

Identification		Standard	Part No.		Pg	Drawing	Dimensions in mm
			Han M	Han U			
Hoods	Hoods side-entry 	<b>09 20 003 1640</b>	<b>09 37 003 1640</b>	09 36 003 1640	11		
	Hoods top-entry 	<b>09 20 003 1440</b>	<b>09 37 003 1440</b>	<b>09 36 003 1440</b>	11		
	Protection covers for hoods	<b>09 20 003 5422<sup>1)</sup></b> <b>09 20 003 5421<sup>2)</sup></b>	09 37 003 5402 <sup>1)</sup> 09 37 003 5401 <sup>2)</sup>	09 36 003 5402 <sup>1)</sup> 09 36 003 5401 <sup>2)</sup>			
Housings	Housings bulkhead mounting 	<b>09 20 003 0301</b>	<b>09 37 003 0301</b>	<b>09 36 003 0301</b>	—	Panel cut out 22 x 22 mm 	
		<b>09 20 003 0801</b>	<b>09 37 003 0801</b>	09 36 003 0801	—		
	Housings surface mounting 1 side-entry 	<b>09 20 003 1250</b>	<b>09 37 003 1250</b>	<b>09 36 003 1250</b>	11	Panel cut out 22 x 22 mm 	
	bottom closed	09 20 003 1252					
	Housings screw mounting 	<b>09 20 003 0102</b>		09 36 003 0102	13,5		
	Hoods cable to cable 	<b>09 20 003 1750</b>	<b>09 37 003 1750</b>	09 36 003 1750	11		
	Protection covers for housings	<b>09 20 003 5426<sup>1)</sup></b> <b>09 20 003 5425<sup>2)</sup></b>	09 37 003 5406 <sup>1)</sup> 09 37 003 5405 <sup>2)</sup>	09 36 003 5406 <sup>1)</sup> 09 36 003 5405 <sup>2)</sup>			
for hoods cable to cable	09 20 003 5428 <sup>1)</sup> 09 20 003 5427 <sup>2)</sup>	09 37 003 5408 <sup>1)</sup> 09 37 003 5407 <sup>2)</sup>	09 36 003 5408 <sup>1)</sup> 09 36 003 5407 <sup>2)</sup>				

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

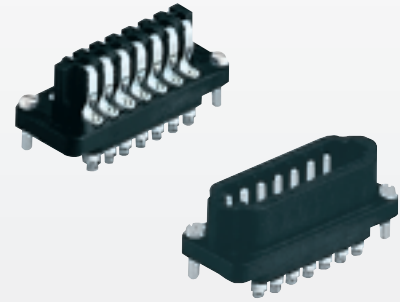
Identification		Part No.	Pg	Drawing	Dimensions in mm	
Hoods	Hoods side-entry	grey <b>09 20 003 0620</b>	11			
		black <b>09 20 003 0627</b>	11			
	Hoods top-entry	grey <b>09 20 003 0420</b>	11			
		black <b>09 20 003 0427</b>	11			
	Protection covers for hoods		<b>09 20 003 5442<sup>1)</sup></b> <b>09 20 003 5441<sup>2)</sup></b>			
	Housings	Housings bulkhead mounting		grey <b>09 20 003 0320</b>	—	
		black <b>09 20 003 0327</b>	—			
		grey <b>09 20 003 0820</b>	—			
		black <b>09 20 003 0827</b>	—			
Housings surface mounting		1 side-entry	grey <b>09 20 003 0220</b>	11		
			black <b>09 20 003 0227</b>	11		
Housings screw mounting		grey <b>09 20 003 0120</b>	13.5			
		black <b>09 20 003 0127</b>	13.5			
Hoods cable to cable		grey <b>09 20 003 0720</b>	11			
		black <b>09 20 003 0727</b>	11			
Protection covers for housings		A <b>09 20 003 5407<sup>1)3)</sup></b> <b>09 20 003 5408<sup>2)3)</sup></b>				
		B <b>09 20 003 5446<sup>1)</sup></b> <b>09 20 003 5445<sup>2)</sup></b>				
for hoods cable to cable		C <b>09 20 003 5448<sup>1)</sup></b>				

Staf

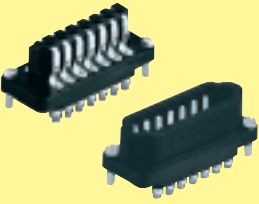
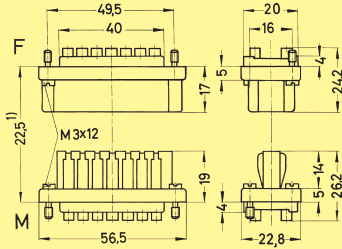
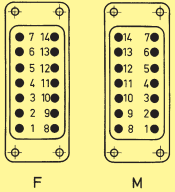
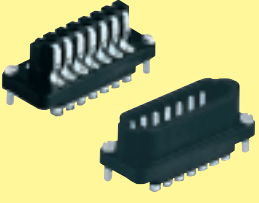
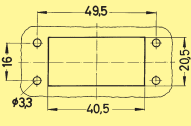
<sup>1)</sup> for mounted male insert  
<sup>2)</sup> for mounted female insert  
<sup>3)</sup> for metal housings and cable to cable hoods also

Number of contacts

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Inserts

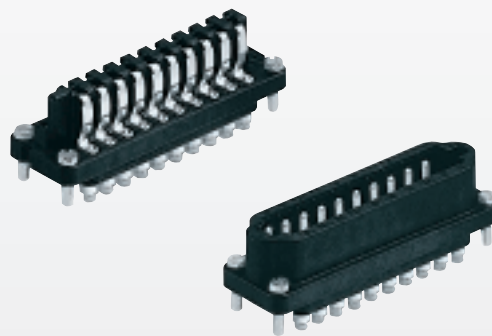
Identification	Series	Part No.		Drawing	Dimensions in mm
		Female insert (M)	Male insert (F)		
<p>Screw terminal</p> 	Staf	<b>09 70 014 2811</b>	<b>09 70 014 2614</b>	 <p><sup>1)</sup> Distance for contact max. 24 mm</p> <p>Contact arrangement View from termination side</p> 	
<p>Solder terminal</p> 	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> 	

Identification	Part No.		Pg	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods	<b>Hoods side-entry</b> 	<b>09 20 010 1541</b>	16		63, 29,5, 61,5
		<b>09 20 010 0540</b> <b>09 20 010 0541</b>	16 21		63, 67,5, 36
	<b>Hoods top-entry</b> 	<b>09 20 010 1440</b>	13.5		63, 29,5, 47
		<b>09 20 010 0440</b> <b>09 20 010 0441</b>	16 21		63, 67,5, 36
Housings	<b>Housings bulkhead mounting</b> 	<b>09 20 010 0301</b>	—		70, 81, 4,5, 24, 57, 17,5, 26, 13, 22, 17,5, 29
		with thermo-plastic cover <b>09 20 010 0321</b>	—		70, 81, 4,5, 24, 57, 17,5, 26, 13, 22, 17,5, 29, 59, 23
	<b>Housings surface mounting</b> 	<b>09 20 010 0251</b> <b>09 20 010 0252</b>	16 21		48, 63,5, 12, 4,5, 4, 50, 52
		with thermo-plastic cover <b>09 20 010 0221</b> <b>09 20 010 0222</b>	16 21		48, 63,5, 12, 4,5, 4, 50, 52
	<b>09 20 010 0291</b>	16		48, 63,5, 12, 52, 4,5, 4, 50, 49	
	with thermo-plastic cover <b>09 20 010 0296</b>	16		48, 63,5, 12, 52, 4,5, 4, 50, 49	

Staf

Number of contacts

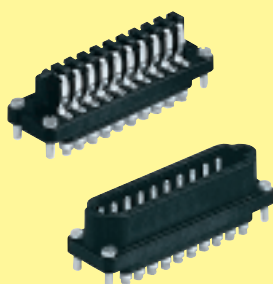
20



Inserts

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

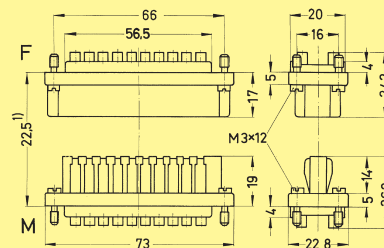
Screw terminal



Staf

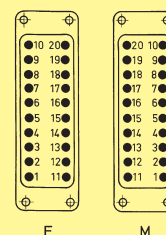
**09 70 020 2817**

**09 70 020 2622**

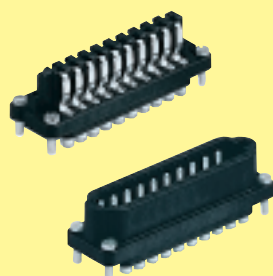


<sup>1)</sup> Distance for contact max. 24 mm

Contact arrangement View from termination side



Solder terminal

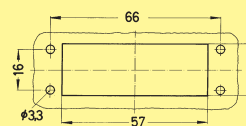


Staf

**09 70 020 2816**


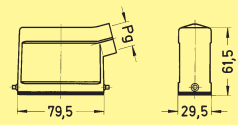
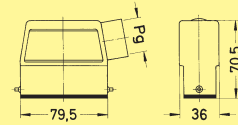

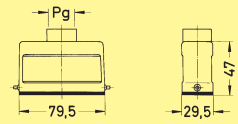
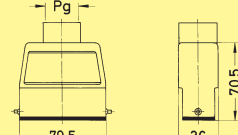

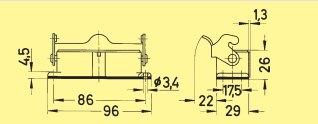
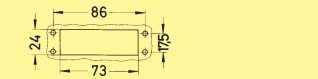

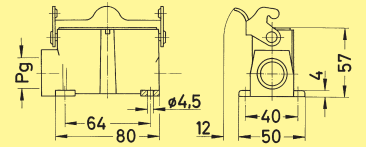
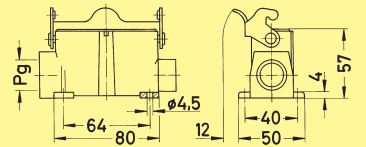

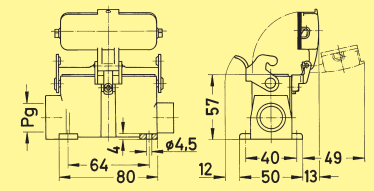
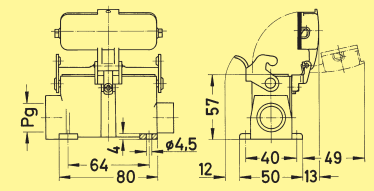
**09 70 020 2621**

Panel cut out for inserts  
for use without hoods/housings



Staf



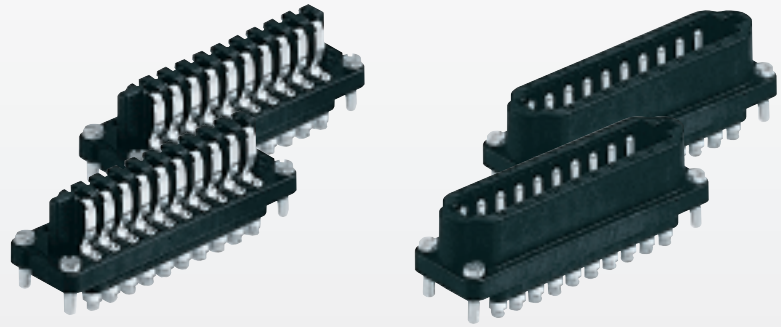
Identification	Part No.		Pg	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods	Hoods side-entry 	<b>09 20 016 1541</b>	16		
		<b>09 20 016 0540</b> <b>09 20 016 0541</b>	16 21		
	Hoods top-entry 	<b>09 20 016 1441</b>	16		
		<b>09 20 016 0440</b> <b>09 20 016 0441</b>	16 21		
Housings	Housings bulkhead mounting 	<b>09 20 016 0301</b>	—		
		with thermo- plastic cover <b>09 20 016 0321</b>	—		
	Housings surface mounting 1 side-entry 	<b>09 20 016 0251</b> <b>09 20 016 0252</b>	16 21		
		with thermo- plastic cover <b>09 20 016 0221</b> <b>09 20 016 0222</b>	16 21		
Housings surface mounting 2 side-entries 	<b>09 20 016 0291</b>	16			
	with thermo- plastic cover <b>09 20 016 0296</b>	16			

Staf

Number of contacts

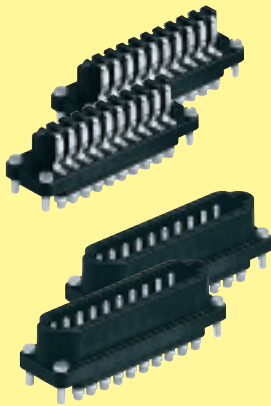
40

Inserts



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

Screw terminal



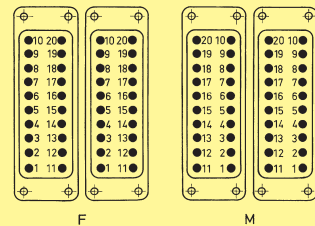
Staf  
1-20  
1-20

**09 70 020 2817**  
**09 70 020 2817**

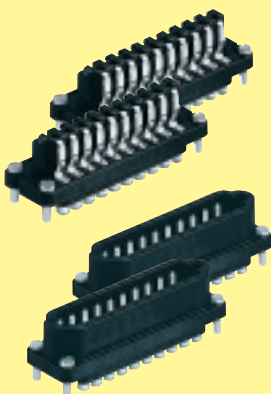
**09 70 020 2622**  
**09 70 020 2622**

Dimensions for inserts see page 09.16

Contact arrangement View from termination side



Solder terminal

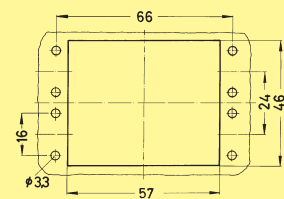


Staf  
1-20  
1-20


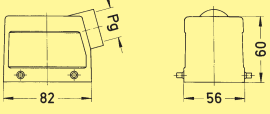
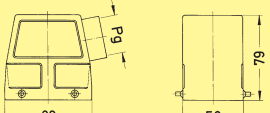

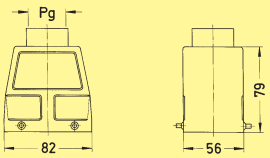

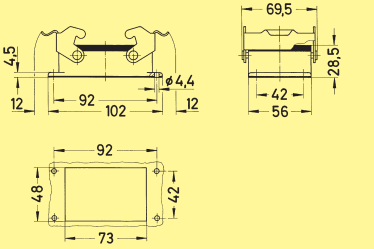

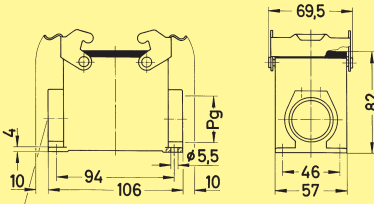

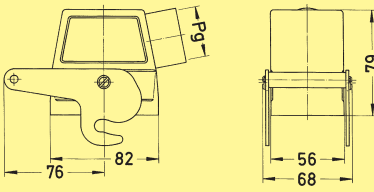

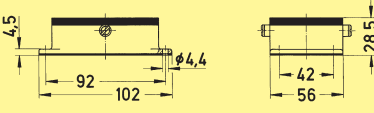
**09 70 020 2816**  
**09 70 020 2816**

**09 70 020 2621**  
**09 70 020 2621**

Panel cut out for inserts  
for use without hoods/housings



Staf

Identification	Part No.		Pg	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods	<b>Hoods side-entry</b> 	<b>09 20 032 1520</b>	21		
		<b>09 20 032 0520</b> <b>09 20 032 0521</b>	21 29		
	<b>Hoods top-entry</b> 	<b>09 20 032 0420</b> <b>09 20 032 0421</b>	21 29		
Housings	<b>Housing bulkhead mounting</b> 	<b>09 20 032 0301</b>	-	 <p>Panel cut out</p>	
	<b>Housings surface mounting</b> 		21 29	 <p>Blind way for one cable entry</p>	
		1 side-entry  2 side-entries	<b>09 20 032 0230</b> <b>09 20 032 0231</b>		21 29
<b>Hood with central locking lever side-entry</b> 		<b>09 20 032 0581</b>	29		
<b>Housing for central locking bulkhead mounting</b> 	<b>09 20 032 0381</b>	-			

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