



A large industrial testing chamber with a blue and white color scheme. A computer workstation with a monitor and keyboard is positioned inside the chamber. The chamber is surrounded by a metal frame with glass panels. The floor is made of perforated metal plates with yellow safety lines.

# heavy | mate<sup>®</sup> HSE

- Rated voltage 400 V
- Rated current 42 A
- Termination: screw
- Number of contacts: 6

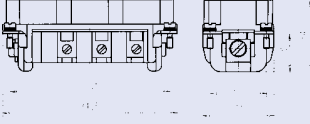

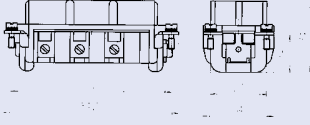



Approvals, Testhouse	Characteristics	Approval-Number
UL 	600 V, 35 A	E 63093
CSA 	600 V, 35 A	48932

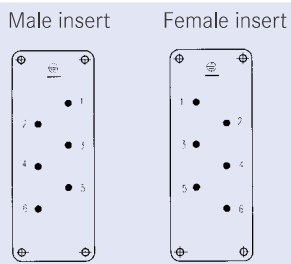
In general approvals refer to representative versions of the connector series. Extent and specification of tests upon request.

## heavy|mate® HSE Characteristics contact inserts

General Characteristics	Standard	Value	
Number of contacts		6 + ⊕	
Termination technique		screw	
Wire gauge		0.5 – 6.0 mm <sup>2</sup> (Ø 3.4 mm)	
Flammability	UL 94	V-0	
Electrical Characteristics			
Rated voltage	IEC 60664-1	400 V (600 V UL / CSA <sup>1)</sup> )	
Pollution degree	IEC 60664-1	3	
Installation (overvoltage) category	IEC 60664-1	III	
Material group	IEC 60664-1	II	
Rated impulse withstand voltage	IEC 60664-1	6 kV	
Rated current	IEC 60512-5-2	see derating curves	
Rated current T <sub>amp</sub> = 40 °C		42 A	
Contact resistance	IEC 60512-2-1	≤ 1 mΩ	
Insulation resistance	IEC 60512-3-1	≥ 10 <sup>10</sup> Ω	
Climatical Characteristics			
Climatic category	IEC 60068-1	40 / 125 / 21	
Upper temperature	IEC 60512-11-9	+ 125 °C	
Lower temperature	IEC 60512-11-10	- 40 °C	
Mechanical Characteristics			
IP-degree of protection pin insert	IEC 60529	unmated IP00	mated IP20
IP-degree of protection socket insert	IEC 60529	unmated IP20	mated IP20
Weight pin insert		80 g	
Weight socket insert		80 g	
Mechanical operation	IEC 60512-9-1	≥ 500 mating cycles	
Materials			
Insert		PA, GV	
Colour insert		black	
Contacts		Cu Zn (brass)	
Contact plating		Ag (silver)	

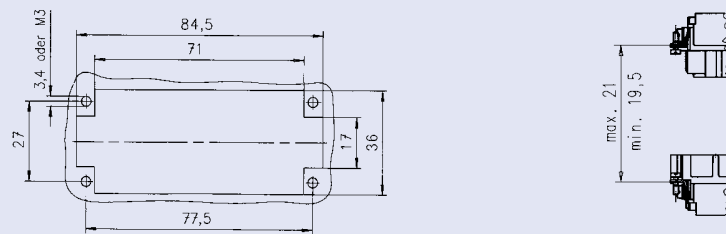
Description	Part Number	Drawing	Figure
<b>Contact insert 6 + ⊕</b>			
Male insert with wire protection for screw termination	C146 10A006 102 5		
Female insert with wire protection for screw termination	C146 10B006 102 5		

**Pin layout**

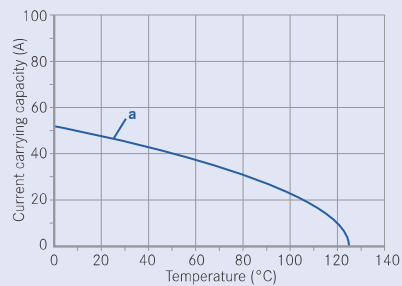


**Assembly instruction**

Panel cut out (insert)



**Derating curves**



Curve a: 6 mm<sup>2</sup> screw contact