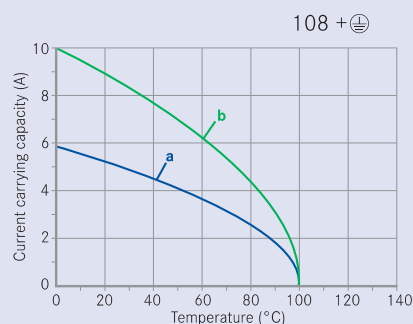
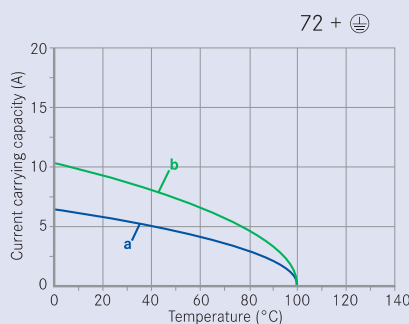
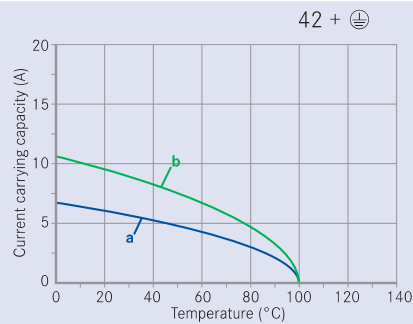
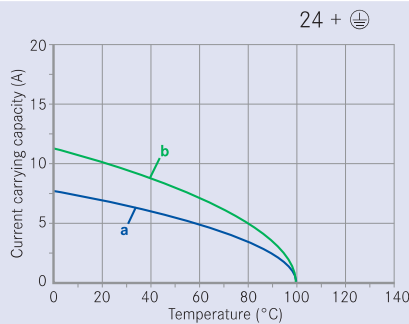


# heavy | mate® DD Characteristics contact inserts

General Characteristics		Standard	Value			
Number of contacts			24 + ⊕	42 + ⊕	72 + ⊕	108 + ⊕
Termination technique			crimp			
Wire gauge			0.14 mm <sup>2</sup> - 2.5 mm <sup>2</sup>			
Flammability	UL 94		V-0			
Electrical Characteristics						
Rated voltage	IEC 60664-1		250 V (600 V UL / CSA)			
Pollution degree	IEC 60664-1		2 (3 mated and locked)			
Installation (overvoltage) category	IEC 60664-1		III			
Material group	IEC 60664-1		III b			
Rated impulse withstand voltage	IEC 60664-1		4 kV			
Current carrying capacity	IEC 60512-5-2		see derating curves			
Contact resistance	IEC 60512-2-1		≤ 5 mΩ			
Insulation resistance	IEC 60512-3-1		≥ 10 <sup>10</sup> Ω			
Climatical Characteristics						
Climatic category	IEC 60068-1		40 / 100 / 21			
Upper temperature	IEC 60512-11-9		+ 100 °C			
Lower temperature	IEC 60512-11-10		- 40 °C			
Mechanical Characteristics						
Weight pin insert			44 g	50 g	63 g	86 g
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 socket insert			41 g	50 g	67 g	88 g
Mechanical operation	IEC 60512-9-1		> 500 mating cycles			
Materials						
Insert			PBTP			
Colour insert			grey			
Contacts			CuZn (brass)			
Contact plating			Ag (silver)			

## Derating curves



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