

heavy | mate® A Characteristics contact inserts

General Characteristics	Standard	Value			
Number of contacts		3/4 + ⊕	10 + ⊕	16 + ⊕	32 + ⊕
Termination technique		screw			
Wire gauge		0.25 - 2.5 mm ²			
Flammability	UL 94	V-0			
Electrical Characteristics					
Rated voltage	IEC 60664-1	400 V	250 V		
Pollution degree	IEC 60664-1	3			
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			
Rated current T _{amp} = 40 °C		18 A	16 A	14 A	14 A
Contact resistance	IEC 60512-2-1	≤ 5 m Ω			
Insulation resistance	IEC 60512-3-1	≥ 10 ¹⁰ 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					
IP-degree of protection pin insert ¹⁾	IEC 60529	unmated IP00		mated IP20	
IP-degree of protection socket insert ¹⁾	IEC 60529	unmated IP20		mated IP20	
Weight pin insert		13 g	48 g	68 g	136 g
Weight socket insert		13 g	52 g	73 g	146 g
Mechanical operation	IEC 60512-9-1	≥ 500 mating cycles			
Materials					
Insert		PA	PBT	PBT	PBT
Contacts		Cu Zn (brass)			
Contact plating		Ag (silver)			