

heavy | mate® E Characteristics contact inserts

General Characteristics	Standard	Value				
Number of contacts		6 + ⊕	10 + ⊕	16 + ⊕	24 + ⊕	48 + ⊕
Termination technique		crimp / screw / tension spring				
Wire gauge		0.5 - 4 mm ²				
Flammability	UL 94	V-0				
Electrical Characteristics						
Rated voltage	IEC 60664-1	max. 500 V (600 V UL / CSA ¹⁾)				
Pollution degree	IEC 60664-1	3				
Material group	IEC 60664-1	III b				
Installation (overvoltage) category	IEC 60664-1	III				
Rated impulse withstand voltage	IEC 60664-1	6,0 kV				
Current carrying capacity	IEC 60512-5-2	see derating curves				
Rated current T _{amp} = 40 °C		22 A	19 A	19 A	18 A	18 A
Contact resistance	IEC 60512-2-1	< 5 mΩ				
Insulation resistance	IEC 60512-3-1	≥ 10 ¹⁰ 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 ²⁾	IEC 60529	unmated IP00			mated IP20	
IP-degree of protection socket insert ²⁾	IEC 60529	unmated IP20			mated IP20	
Weight:						
male insert crimp (for stamped contacts)		33 g	39 g	45 g	55 g	110 g
female insert crimp (for stamped contacts)		33 g	39 g	49 g	62 g	124 g
male insert screw		43 g	57 g	78 g	105 g	210 g
female insert screw		43 g	57 g	78 g	106 g	212 g
Mechanical operation	IEC 60512-9-1	> 500 mating cycles				
Materials						
Insert		PC GV (Polycarbonat)				
Colour insert		grey				
Screw contacts		CuZn (brass)				
Contact plating		Ag (silver) / Au (gold)				

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