



### Characteristics

General Characteristics	Standard	Value
number of contacts		6 / 36 + PE
termination technique		crimp
wire gauge power contacts		1,5 mm <sup>2</sup> - 6 mm <sup>2</sup> AWG 16 - AWG 10
wire gauge signal contacts		0,14 mm <sup>2</sup> - 2,5 mm <sup>2</sup> AWG 26 - AWG 14
max. insulation diameter		5,2 mm / 3,7 mm
flammability	UL 94	V-0
Electrical Characteristics	Standard	Value
rated voltage	IEC 60664-1	690 V / 160 V (UL/CSA: 600 V / 300 V)
pollution degree	IEC 60664-1	3
installation (overvoltage) category	IEC 60664-1	3
material group	IEC 60664-1	3b
rated impulse withstand voltage	IEC 60664-1	8 kV / 2,5 kV
rated current T <sub>amb</sub> = 40 °C		40 A / 10 A
current carrying capacity	IEC 60512-5-2	see derating curve
contact resistance	IEC 60512-2-1	≤ 5 mΩ
insulation resistance	IEC 60512-3-1	≥ 10 <sup>10</sup> Ω
Climatical Characteristics	Standard	Value
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	Standard	Value
mechanical operation	IEC 60512-9-1	≥500 mating cycles
Materials	Standard	Value
insert		PC-GF
contacts		CuZn (brass)
contact plating		Ag (silver)/Au (gold)
color		grey

Gewicht (errechnet) / Calc WT: 73,4 g		Zul. Abw./Tolerances:		Maßstab / Scale: 1:1		A3	
Prüfmaß / Testdimension		ISO 2768-m		DIN / ISO 13715		CUSTOMER DRAWING	
Teileindex / Partindexnumber:		Gez. 18.09.2013		Status Released		Buchseneinsatz 42-Pol	
Bagatelle change:		Drawn DSC-MIG		Gepr. 08.09.2017		socket insert 42 pole	
		Checked MGRIMM		Amphenol Tuchel Industrial GmbH		Blatt / Sheet 1	
04 201700257 30.08.2017 PWÖLF				M C146 10B042 500 13		1 Bl.	
03 201500911 09.02.2016 JHÖNN				Ers. f. / Replacement for: M-C146 10B042 500 13 Rev02		NXM-V04	
Index	Änderung / Description	Datum / Date	Name				

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