



Number of contacts	Standard	3	4	5	5S	6	7	7	8	12	14	
Contact arrangement	DIN EN 61076-2-106	03-a	04-a	05-a	05-b	06-a	07-a	07-b	08-a	12-a	14-a	
Contact arrangement	IEC 60130-9 <sup>1)</sup>											
Rated voltage <sup>2)</sup>	IEC 60664-1	300 V (100 V)	300 V (63 V)	100 V (32 V)	300 V (63 V)	100 V (32 V)	150 V (32 V)					
Rated voltage	UL 1977	250 V						60 V				
Rated impulse withstand voltage <sup>2)</sup>	IEC 60664-1	1500 V (840 V)	1200 V (500 V)	1500 V (840 V)	1200 V (500 V)							
Pollution degree <sup>2)</sup>	IEC 60664-1	1 (3 <sup>3)</sup> )										
Installation category	IEC 60664-1	I										
Insulation group	IEC 60664-1	II, 400 ≤ CTI < 600										
Current rating	IEC 60512-5-2 UL 1977	10A/+40°C/+104°F			7A/+40°C/+104°F				3A/+40°C/+104°F			
Insulation resistance	IEC 60512-3-1	>10 <sup>10</sup> Ohm <sup>4)</sup>										
Contact resistance	IEC 60512-2-1	<5m Ohm										
Climatic category	IEC 60668-1	40 / 100 / 56										
Temperatur range	IEC 60668-1	-40°C...+100°C / -40°F...+212°F										
salt spray resistance	DIN IEC 60068-2-11	720h										
IP degree	IEC 60529	IP 69K / IP 67 / IP 65 (in mated condition)										
Insertion and withdrawal force	IEC 60512-13-2	25N	30N	35N	50N	55N	60N	50N				
Mechanical operation	IEC 60512-9-1	silver ≥500 mating cycles gold ≥1000 mating cycles										
Housing material		brass and / or zinc die cast, nickel plated										
Dielectric material		thermoplastic										
Contacts		silver or gold plated										
Termination technique		solder										
Wire gauge		2-6 pol (exclusive 5S): 0,09-1,0mm <sup>2</sup> / 28-18 AWG						0,09-0,25mm <sup>2</sup> / 28-24 AWG				
Flamability		UL 94 VO										
locking system	IEC 60130-9 DIN EN 61076-2-106	metal screw coupling; tightening torque 1-1,5Nm										

<sup>1)</sup> Edition 2000-05  
<sup>2)</sup> values in brackets are according to DIN EN 61076-2-106  
<sup>3)</sup> designed acc. pollution degree 2; can be used under pollution degree 3 when the rules of IEC 60664-1 are fulfilled  
<sup>4)</sup> under operating conditions >10<sup>8</sup> Ohm  
 All technical data have been measured in a laboratory environment and can be different during practical usage of the product. Any product information is for descriptive usage only and not legally binding; particularly the information does not constitute or provide any legal guaranties. Do not connect or disconnect under load. Metal housing parts shall be securely incorporated to protected ground.  
 Remark for gold plated contacts:  
 In order to avoid brittle inter-metallic connections, gold plated terminals have to be tin-plated in the solder area  
 Parts according to directive 2002/95/EG (RoHS).

	14 (14-a)	C091 31D014 100 2 U	C091 31D014 200 2 U
	12 (12-a)	C091 31D012 100 2 U	C091 31D012 200 2 U
	8 (08-a)	C091 31D008 100 2 U	C091 31D008 200 2 U
	7 (07-b)	C091 31D107 100 2 U	C091 31D107 200 2 U
	7 (07-a)	C091 31D007 100 2 U	C091 31D007 200 2 U
	6 (06-a)	C091 31D006 100 2 U	C091 31D006 200 2 U
	5 (05-b)	C091 31D105 100 2 U	C091 31D105 200 2 U
	5 (05-a)	C091 31D005 100 2 U	C091 31D005 200 2 U
	4 (04-a)	C091 31D004 100 2 U	C091 31D004 200 2 U
	3 (03-a)	C091 31D003 100 2 U	C091 31D003 200 2 U

Contact arrangement View on mating side	Number of contacts (Contact arrangement acc. IEC 61076-2-106)	Part number-Ag	Part number-Au
Gewicht (errechnet) / Calc WT: 43,442 g		Zul. Abw./Tolerances:	
Prüfmäß / Testdimension		Maßstab / Scale: 2:1	
Teileindex / Partindexnumber:		A3	
Bagatelle change:		CUSTOMER DRAWING	
Gez. 08.06.2017 Drawn AZN_NPFEIFFE		Female cable connector female cable connector	
Status Released		M C091 31DXXX X00 2 U	
Gepr. 19.06.2017 Checked MGRIMM		Blatt / Sheet 1	
<b>Amphenol Tuchel Industrial GmbH</b>		1 Bl.	
Index 04	Änderung / Description 201700004	Datum / Date 19.06.2017	Name NPFEI
Ers. f. / Replacement for: M-C091 31DXXX X00 2 Rev03		NXM-V04	

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