



	19 (19-a)	C091 31K019 101 2 U	C091 31K019 201 2 U
	14 (14-b)	C091 31K114 101 2 U	C091 31K114 201 2 U
	14 (14-a)	C091 31K014 101 2 U	C091 31K014 201 2 U
	12 (12-a)	C091 31K012 101 2 U	C091 31K012 201 2 U
	8 (08-a)	C091 31K008 101 2 U	C091 31K008 201 2 U
	7 (07-b)	C091 31K107 101 2 U	C091 31K107 201 2 U
	7 (07-a)	C091 31K007 101 2 U	C091 31K007 201 2 U
	6 (06-a)	C091 31K006 101 2 U	C091 31K006 201 2 U
	5 (05-b)	C091 31K105 101 2 U	C091 31K105 201 2 U
	5 (05-a)	C091 31K005 101 2 U	C091 31K005 201 2 U
	4 (04-a)	C091 31K004 101 2 U	C091 31K004 201 2 U
	3 (03-a)	C091 31K003 101 2 U	C091 31K003 201 2 U
	2 (Pin 1+3)	C091 31K002 101 2 U	C091 31K002 201 2 U

Number of contacts	Standard	3	4	5	5	6	7	7	8	12	14	14	19	
Contact arrangement	IEC 61076-2-106	03-a	04-a	05-a	05-b	06-a	07-a	07-b	08-a	12-a	14-a	14-b	19-a	
Contact arrangement	IEC 60130-9 <sup>b</sup>	yes		no		yes		no		yes				
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) 60 V (32 V)		
Rated voltage	UL 1977	250V										60V		
Rated impulse withstand voltage <sup>2)</sup>	IEC 60664-1	1500 V (1500 V)		1200 V (800 V)		1500 V (1500 V)		1200 V (800 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			7A/+40°C						3A/+40°C			
Insulation resistance	IEC 60512-3-1	>10 <sup>10</sup> Ohm <sup>4)</sup>												
Contact resistance	IEC 60512-2-1	<5mOhm												
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, test Ka	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	35N	50N	55N	55N	60N	50N	50N	50N	60N	
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												
sealing material		Chloroprene												
contacts		silver or gold plated												
termination technique		solder												
wire gauge		≤0,5mm <sup>2</sup> / 20 AWG						≤0,35mm <sup>2</sup> / 22 AWG						
flamability		UL 94 V0												
locking system	IEC 60130-9 DIN EN 61076-2-106	metal screw coupling; tightening torque 0,7 - 1,5 Nm												

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: 0,063 kg Prüfmaß / Testdimension Teileindex / Partindexnumber: Bagatelle change:	Zul. Abw./Tolerances: ISO 2768-c DIN / ISO 13715	Maßstab / Scale: 1:1 A3 CUSTOMER DRAWING
03 202300020 07.09.2023 MKELB 02 202100006 01.03.2021 MCARL 01 202000083 26.10.2020 MCARL	Gez. 20.08.2020 Drawn MCARLE Status Released Gepr. 07.09.2023 Checked MCARLE	Amphenol Tuchel Industrial GmbH	Male cable connector r/a for cable diameter 6-8mm Blatt / Sheet 1 1 Bl.
Index Änderung / Description Datum / Date Name	Ers. f. / Replacement for:		

<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 60644-1 are fulfilled  
<sup>4)</sup> under operating conditions >10<sup>8</sup> Ohm  
 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.  
 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 ("Beschaffensgarantie" or "Haltbarkeitsgarantie").

Copying of this document and giving it to others and the use or communication of the contents thereof, are forbidden without express authority. Offenders are liable to the payment of damages. All rights are reserved in the event of the grant of a patent or the registration of the utility model or design.  
 Weitergabe sowie Vervielfältigung dieser Unterlage, Verwertung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht ausdrücklich zugestanden. Zuwiderhandlungen verpflichten zu Schadenersatz. Alle Rechte für den Fall der Patenterteilung oder Gebrauchsmuster-Eintragung vorbehalten.

FAI2023-002422  
NXM-V01