



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 ^b	yes		no		yes		no		yes			
Rated voltage ²⁾	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 ²⁾	IEC 60664-1	1500 V (1500 V)		1200 V (800 V)		1500 V (1500 V)		1200 V (800 V)					
Pollution degree ²⁾	IEC 60664-1	1 (3 ³⁾)											
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 ¹⁰ Ohm ⁴⁾											
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 ² / 20 AWG						≤0,35mm ² / 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											

	19 (19-a)	C091 31D019 100 2 U	C091 31D019 200 2 U
	14 (14-b)	C091 31D114 100 2 U	C091 31D114 200 2 U
	14 (14-a)	C091 31D014 100 2 U	C091 31D014 200 2 U
	12 (12-a)	C091 31D012 10 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 Teileindex / Partindexnumber: Bagatelle change: 25.02.2021 MCARLE	ISO 2768-c DIN / ISO 13715	Maßstab / Scale: 2:1 A3 CUSTOMER DRAWING
07 202000083 27.10.2020 MCARLE 06 202000001 30.04.2020 MCARLE 05 202000001 23.04.2020 MCARLE 04 201700004 19.06.2017 NPFEI	Gez. 08.06.2017 Drawn AZN_NPFEIFFE Status Released Gepr. 11.01.2021 Checked MBERTSCH	Amphenol Tuchel Industrial GmbH	Female cable connector female cable connector M C091 31DXXX X00 2 U Ers. f. l. Replacement for: M-C091 31DXXX X00 2 Rev03

¹⁾ Edition 2000-05
²⁾ values in brackets are according to DIN EN 61076-2-106
³⁾ designed acc. pollution degree 2, can be used under pollution degree 3 when the rules of IEC 60644-1 are fulfilled
⁴⁾ under operating conditions >10⁸ 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 ("Beschaffenheitsgarantie" or "Haltbarkeitsgarantie")

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