

Assembly instruction see N 22 091 0025

D	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
	Rated voltage	IEC 60664-1	150 V	100 V	32 V	100 V	32 V							
	Rated impulse withstand voltage	IEC 60664-1	1500 V	800 V	1500 V	800 V								
	Pollution degree	IEC 60664-1	3 ¹⁾											
	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			
C	Insulation resistance	IEC 60512-3-1	>10 ¹⁰ Ohm ²⁾											
	Contact resistance	IEC 60512-2-1	<5mOhm											
	Climatic category	IEC 60668-1	40 / 100 / 21											
	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	IP69K / IP 68 (in mated condition)											
	Insertion and withdrawal force	IEC 60512-13-2	25N	30N	35N	35N	50N	55N	55N	60N	50N	50N	50N	60N
B	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	DIN EN 61076-2-106	metal screw coupling, tightening torque 0,7 - 1,5 Nm											

¹⁾ designed according pollution degree 2, can be used under pollution degree 3 if the rules according IEC 60664-1 are fulfilled

²⁾ 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 ("Beschaffungsgarantie" or "Haltbarkeitsgarantie").

	19 (19-a)	C091 31D019 102 4 U	C091 31D019 202 4 U
	14 (14-b)	C091 31D114 102 4 U	C091 31D114 202 4 U
	14 (14-a)	C091 31D014 102 4 U	C091 31D014 202 4 U
	12 (12-a)	C091 31D012 102 4 U	C091 31D012 202 4 U
	8 (08-a)	C091 31D008 102 4 U	C091 31D008 202 4 U
	7 (07-b)	C091 31D107 102 4 U	C091 31D107 202 4 U
	7 (07-a)	C091 31D007 102 4 U	C091 31D007 202 4 U
	6 (06-a)	C091 31D006 102 4 U	C091 31D006 202 4 U
	5 (05-b)	C091 31D105 102 4 U	C091 31D105 202 4 U
	5 (05-a)	C091 31D005 102 4 U	C091 31D005 202 4 U
	4 (04-a)	C091 31D004 102 4 U	C091 31D004 202 4 U
	3 (03-a)	C091 31D003 102 4 U	C091 31D003 202 4 U
Contact arrangement View on mating side	Number of contacts (Contact arrangement acc. IEC 61076-2-106)	Part number with silver plated contacts	Part number with gold plated contacts

Gewicht (errechnet) / Calc WT: 0,051 kg

Zul. Abw./Tolerances:

Prüfmaß / Testdimension

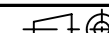
ISO 2768-c

Teileindex / Partindexnumber:

DIN / ISO
13715

Maßstab / Scale: 2:1 2:1

A3



CUSTOMER DRAWING

Gez. 26.05.2020

Drawn MCARLE

Status Released

Gepr. 11.01.2021

Checked MBERTSCH

Female cable connector
for cable diameter 8-10,5 mm

**Amphenol Tuchel
Industrial GmbH**

M C091 31DXXX X02 4 U

Blatt/Sheet

1

1 Bl.

03 202000083 26.10.2020 MCARLE

Index Änderung/Description Datum/Date Name

Ers. f. / Replacement for: M-C091 31DXXX X02 4 U Rev02

Weitergabe sowie Vervielfältigung dieser Unterlage, Verwertung und Mitteilung ihres Inhalts ist nicht gestattet, soweit nicht ausdrücklich zugestanden. Zuwiderhandlungen verpflichten zu Schadenersatz. Alle Rechte für den Fall der Patenterteilung oder Gebrauchsmuster-Eintragung vorbehalten.

FAI2020-001724
NXM-V02