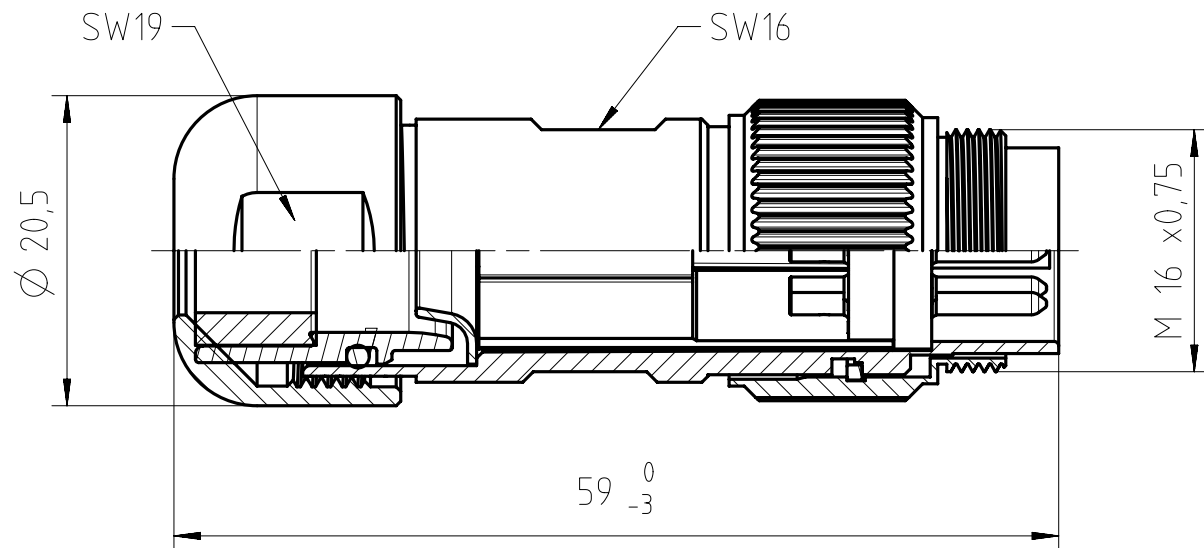


Copying of this document and giving it to others and the use or communication of the contents thereof, are forbidden without express authority. Offenders are liable to the payment of damages. All rights are reserved in the event of the grant of a patent or the registration of the utility model or design.

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.



Assembly instruction see N 22 091 0023

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			
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	↑EC 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
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		≤0,5mm² / 20 AWG								≤0,35mm² / 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 ("Beschaffenheitsgarantie" or "Haltbarkeitsgarantie").

	19 (19-a)	C091 31H019 101 4 U	C091 31H019 201 4 U
	14 (14-b)	C091 31H114 101 4 U	C091 31H114 201 4 U
	14 (14-a)	C091 31H014 101 4 U	C091 31H014 201 4 U
	12 (12-a)	C091 31H012 101 4 U	C091 31H012 201 4 U
	8 (08-a)	C091 31H008 101 4 U	C091 31H008 201 4 U
	7 (07-b)	C091 31H107 101 4 U	C091 31H107 201 4 U
	7 (07-a)	C091 31H007 101 4 U	C091 31H007 201 4 U
	6 (06-a)	C091 31H006 101 4 U	C091 31H006 201 4 U
	5 (05-b)	C091 31H105 101 4 U	C091 31H105 201 4 U
	5 (05-a)	C091 31H005 101 4 U	C091 31H005 201 4 U
	4 (04-a)	C091 31H004 101 4 U	C091 31H004 201 4 U
	3 (03-a)	C091 31H003 101 4 U	C091 31H003 201 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:

Prüfmaß / Testdimension

Teileindex / Partindexnumber:

Bagatelle change:

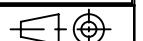
Zul. Abw./Tolerances:

ISO 2768-c



Maßstab / Scale: 2:1

A3



CUSTOMER DRAWING

Gez. 26.05.2020

Drawn MCARLE

Status Released

Gepr. 11.01.2021

Checked MBERTSCH

Amphenol Tuchel
Industrial GmbH

Male cable connector
for cable diameter 6-8 mm

M C091 31HXXX X01 4 U

Blatt/Sheet

1 Bl.

Ers. f. l. Replacement for: M-C091 31HXXX X01 4 U Rev02

03	202000083	26.10.2020	MCARL
Index	Änderung/Description	Datum/Date	Name