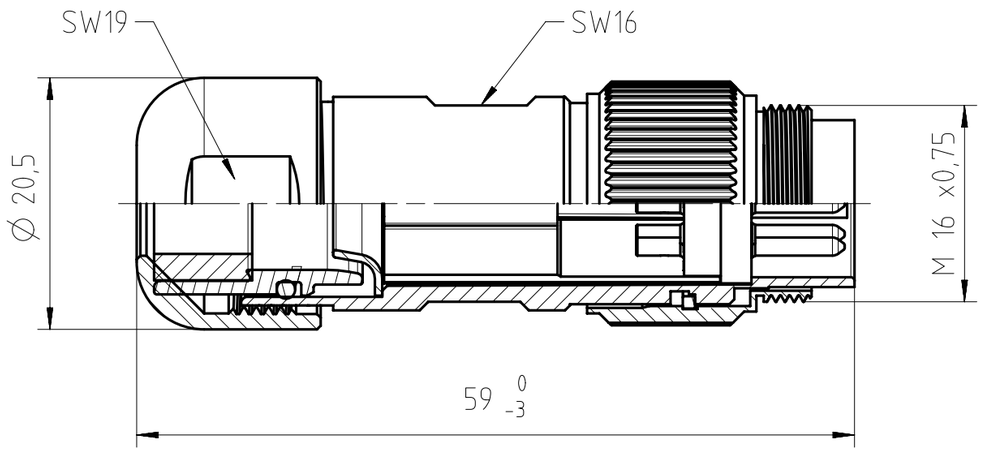
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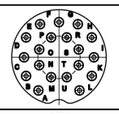
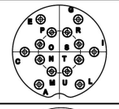
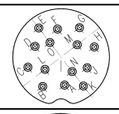
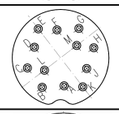
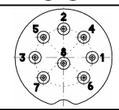
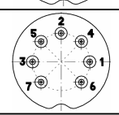
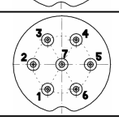
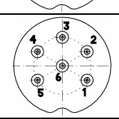
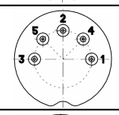
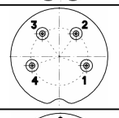
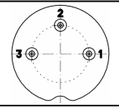


Assembly instruction see N 22 091 0023

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	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
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 fulfiled
[2] under operating conditions >10^{8} Ohm

Do not connect or disconnect under load. Metal housing parts shall be securely incoporated 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 pratical usage of the product. Any product information is for descriptive usage only and not legally binding; particulary the information does not constitute or provide any legal guaranties ("Beschaffenheitsgarantie" or " Haltbarkeitsgarantie").

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
	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

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

Gewicht (errechnet) / *Calc WT* :
Prüfmaß / *Testdimension*
Teileindex / *Partindexnumber:*
Bagatelle change:

Zul. Abw. / *Tolerances* : ISO 2768-c
DIN / ISO 13715

Maßstab / *Scale* : 2:1 | A3

Gez. 26.05.2020
Drawn MCARLE
Status Released
Gepr. 11.01.2021
Checked MBERTSCH

Amphenol Tuchel Industrial GmbH

CUSTOMER DRAWING

Male cable connector
for cable diameter 6-8 mm

M C091 31HXXX X01 4 U

Blatt / *Sheet* 1 | 1 Bl.

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

FA2020-001733 | NXM-V02

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