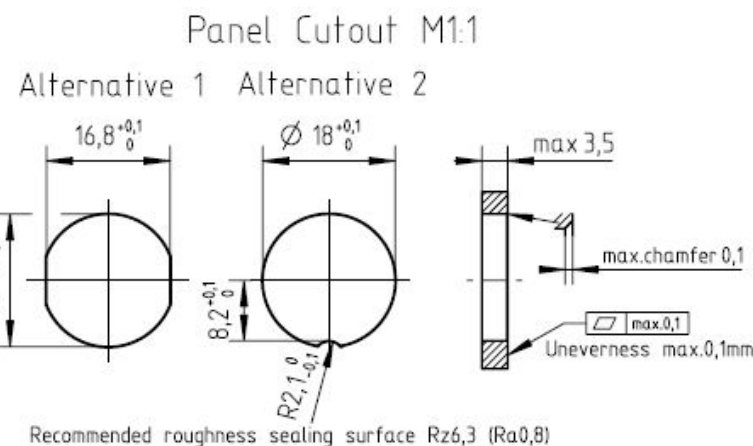
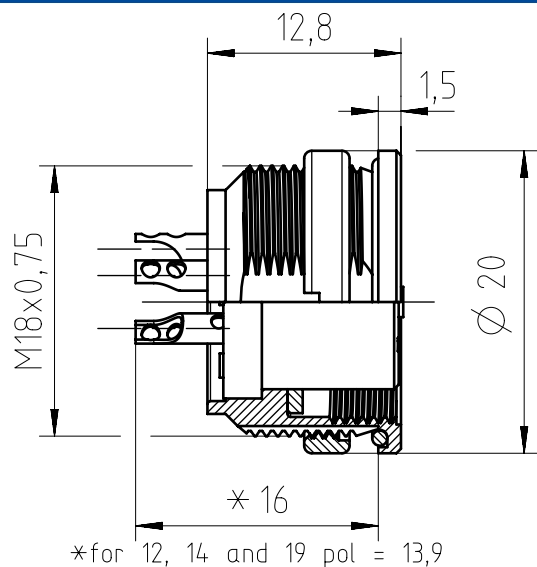


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Number of contacts	Standard	3	4	5	5	6	7	7	8	12	14	14	19
Contact arrangement	IEC 61076-2-106	03-a	04-a	05-a	05-b	06-a	07-a	07-b	08-a	12-a	14-a	14-b	19-a
Contact arrangement	IEC 60130-9 ^b	yes	no	yes	no	yes	no	yes	no	yes	no	yes	no
Rated voltage ^a	IEC 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)	150 V (32 V)	60 V (32 V)	150 V (32 V)	60 V (32 V)	150 V (32 V)
Rated voltage	UL 1977	250V	250V	250V	250V	250V	250V	250V	250V	250V	250V	250V	250V
Rated impulse withstand voltage ^a	IEC 60664-1	1500 V (1500 V)	1200 V (800 V)	1500 V (1500 V)	1200 V (800 V)	1500 V (1500 V)	1200 V (800 V)	1500 V (1500 V)	1200 V (800 V)	1500 V (1500 V)	1200 V (800 V)	1500 V (1500 V)	1200 V (800 V)
Pollution degree ^a	IEC 60664-1	1 (3 ^b)	1 (3 ^b)	1 (3 ^b)	1 (3 ^b)	1 (3 ^b)	1 (3 ^b)	1 (3 ^b)	1 (3 ^b)	1 (3 ^b)	1 (3 ^b)	1 (3 ^b)	1 (3 ^b)
Installation category	IEC 60664-1	I	I	I	I	I	I	I	I	I	I	I	I
Insulation group	IEC 60664-1	II, 400 ≤ CTI < 600	II, 400 ≤ CTI < 600	II, 400 ≤ CTI < 600	II, 400 ≤ CTI < 600	II, 400 ≤ CTI < 600	II, 400 ≤ CTI < 600	II, 400 ≤ CTI < 600	II, 400 ≤ CTI < 600	II, 400 ≤ CTI < 600	II, 400 ≤ CTI < 600	II, 400 ≤ CTI < 600	II, 400 ≤ CTI < 600
Current rating	IEC 60512-5-2 UL 1977	10A/+40°C	7A/+40°C	7A/+40°C	7A/+40°C	7A/+40°C	7A/+40°C	7A/+40°C	7A/+40°C	7A/+40°C	7A/+40°C	7A/+40°C	7A/+40°C
Insulation resistance	IEC 60512-3-1	>10 ¹⁰ Ohm ⁴	>10 ¹⁰ Ohm ⁴	>10 ¹⁰ Ohm ⁴	>10 ¹⁰ Ohm ⁴	>10 ¹⁰ Ohm ⁴	>10 ¹⁰ Ohm ⁴	>10 ¹⁰ Ohm ⁴	>10 ¹⁰ Ohm ⁴	>10 ¹⁰ Ohm ⁴	>10 ¹⁰ Ohm ⁴	>10 ¹⁰ Ohm ⁴	>10 ¹⁰ Ohm ⁴
Contact resistance	IEC 60512-2-1	<5mOhm	<5mOhm	<5mOhm	<5mOhm	<5mOhm	<5mOhm	<5mOhm	<5mOhm	<5mOhm	<5mOhm	<5mOhm	<5mOhm
Climatic category	IEC 60668-1	40 / 100 / 56	40 / 100 / 56	40 / 100 / 56	40 / 100 / 56	40 / 100 / 56	40 / 100 / 56	40 / 100 / 56	40 / 100 / 56	40 / 100 / 56	40 / 100 / 56	40 / 100 / 56	40 / 100 / 56
Temperatur range	IEC 60668-1	-40°C...+100°C / -40°F...+212°F	-40°C...+100°C / -40°F...+212°F	-40°C...+100°C / -40°F...+212°F	-40°C...+100°C / -40°F...+212°F	-40°C...+100°C / -40°F...+212°F	-40°C...+100°C / -40°F...+212°F	-40°C...+100°C / -40°F...+212°F	-40°C...+100°C / -40°F...+212°F	-40°C...+100°C / -40°F...+212°F	-40°C...+100°C / -40°F...+212°F	-40°C...+100°C / -40°F...+212°F	-40°C...+100°C / -40°F...+212°F
Salt spray resistance	DIN IEC 60068-2-11, test Ka	720h	720h	720h	720h	720h	720h	720h	720h	720h	720h	720h	720h
IP degree	IEC 60529	IP 69K / IP 67 / IP 65 (in mated condition)	IP 69K / IP 67 / IP 65 (in mated condition)	IP 69K / IP 67 / IP 65 (in mated condition)	IP 69K / IP 67 / IP 65 (in mated condition)	IP 69K / IP 67 / IP 65 (in mated condition)	IP 69K / IP 67 / IP 65 (in mated condition)	IP 69K / IP 67 / IP 65 (in mated condition)	IP 69K / IP 67 / IP 65 (in mated condition)	IP 69K / IP 67 / IP 65 (in mated condition)	IP 69K / IP 67 / IP 65 (in mated condition)	IP 69K / IP 67 / IP 65 (in mated condition)	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	Silver ≥500 mating cycles / Gold ≥1000 mating cycles	Silver ≥500 mating cycles / Gold ≥1000 mating cycles	Silver ≥500 mating cycles / Gold ≥1000 mating cycles	Silver ≥500 mating cycles / Gold ≥1000 mating cycles	Silver ≥500 mating cycles / Gold ≥1000 mating cycles	Silver ≥500 mating cycles / Gold ≥1000 mating cycles	Silver ≥500 mating cycles / Gold ≥1000 mating cycles	Silver ≥500 mating cycles / Gold ≥1000 mating cycles	Silver ≥500 mating cycles / Gold ≥1000 mating cycles	Silver ≥500 mating cycles / Gold ≥1000 mating cycles	Silver ≥500 mating cycles / Gold ≥1000 mating cycles
housing material		brass and / or zinc die cast, nickel plated	brass and / or zinc die cast, nickel plated	brass and / or zinc die cast, nickel plated	brass and / or zinc die cast, nickel plated	brass and / or zinc die cast, nickel plated	brass and / or zinc die cast, nickel plated	brass and / or zinc die cast, nickel plated	brass and / or zinc die cast, nickel plated	brass and / or zinc die cast, nickel plated	brass and / or zinc die cast, nickel plated	brass and / or zinc die cast, nickel plated	brass and / or zinc die cast, nickel plated
dielectric material		thermoplastic	thermoplastic	thermoplastic	thermoplastic	thermoplastic	thermoplastic	thermoplastic	thermoplastic	thermoplastic	thermoplastic	thermoplastic	thermoplastic
sealing material		Chloroprene	Chloroprene	Chloroprene	Chloroprene	Chloroprene	Chloroprene	Chloroprene	Chloroprene	Chloroprene	Chloroprene	Chloroprene	Chloroprene
contacts		silver or gold plated	silver or gold plated	silver or gold plated	silver or gold plated	silver or gold plated	silver or gold plated	silver or gold plated	silver or gold plated	silver or gold plated	silver or gold plated	silver or gold plated	silver or gold plated
termination technique		solder	solder	solder	solder	solder	solder	solder	solder	solder	solder	solder	solder
wire gauge		≤0,5mm ² / 20 AWG	≤0,5mm ² / 20 AWG	≤0,5mm ² / 20 AWG	≤0,5mm ² / 20 AWG	≤0,5mm ² / 20 AWG	≤0,5mm ² / 20 AWG	≤0,5mm ² / 20 AWG	≤0,5mm ² / 20 AWG	≤0,5mm ² / 20 AWG	≤0,5mm ² / 20 AWG	≤0,5mm ² / 20 AWG	≤0,5mm ² / 20 AWG
flamability		UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0
locking system	IEC 60130-9 DIN EN 61076-2-106	metal screw coupling; tightening torque 0,7 - 1,5 Nm	metal screw coupling; tightening torque 0,7 - 1,5 Nm	metal screw coupling; tightening torque 0,7 - 1,5 Nm	metal screw coupling; tightening torque 0,7 - 1,5 Nm	metal screw coupling; tightening torque 0,7 - 1,5 Nm	metal screw coupling; tightening torque 0,7 - 1,5 Nm	metal screw coupling; tightening torque 0,7 - 1,5 Nm	metal screw coupling; tightening torque 0,7 - 1,5 Nm	metal screw coupling; tightening torque 0,7 - 1,5 Nm	metal screw coupling; tightening torque 0,7 - 1,5 Nm	metal screw coupling; tightening torque 0,7 - 1,5 Nm	metal screw coupling; tightening torque 0,7 - 1,5 Nm

^a Edition 2000-05
^b values in brackets are according to DIN EN 61076-2-106
^c designed acc. pollution degree 2, can be used under pollution degree 3 when the rules of IEC 60644-1 are fulfilled
^d 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 31N019 100 2 U	C091 31N019 200 2 U
	14 (14-b)	C091 31N114 100 2 U	C091 31N114 200 2 U
	14 (14-a)	C091 31N014 100 2 U	C091 31N014 200 2 U
	12 (12-a)	C091 31N012 100 2 U	C091 31N012 200 2 U
	8 (08-a)	C091 31N008 100 2 U	C091 31N008 200 2 U
	7 (07-b)	C091 31N107 100 2 U	C091 31N107 200 2 U
	7 (07-a)	C091 31N007 100 2 U	C091 31N007 200 2 U
	6 (06-a)	C091 31N006 100 2 U	C091 31N006 200 2 U
	5 (05-b)	C091 31N105 100 2 U	C091 31N105 200 2 U
	5 (05-a)	C091 31N005 100 2 U	C091 31N005 200 2 U
	4 (04-a)	C091 31N004 100 2 U	C091 31N004 200 2 U
	3 (03-a)	C091 31N003 100 2 U	C091 31N003 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: 0,011 kg	Zul. Abw./Tolerances:	Maßstab / Scale: 2:1	A3	
Prüfmaß / Testdimension	ISO 2768-c	CUSTOMER DRAWING		
Teileindex / Partindexnumber:				
Bagatelle change: 10.02.2021 MCARLE				
	Gez. 10.06.2020	Female receptacle front mounting		
	Drawn MCARLE			
	Status Released			
	Gepr. 11.01.2021			
	Checked MBERTSCH			
	Amphenol Tuchel Industrial GmbH			
02 202000083	26.10.2020 MCARLE			
Index Änderung / Description	Datum / Date	Name		
Ers. f. / Replacement for: M-C091 31NXXX X00 2 U Rev01		Blatt / Sheet 1		
		1 Bl.		

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NXM-V04