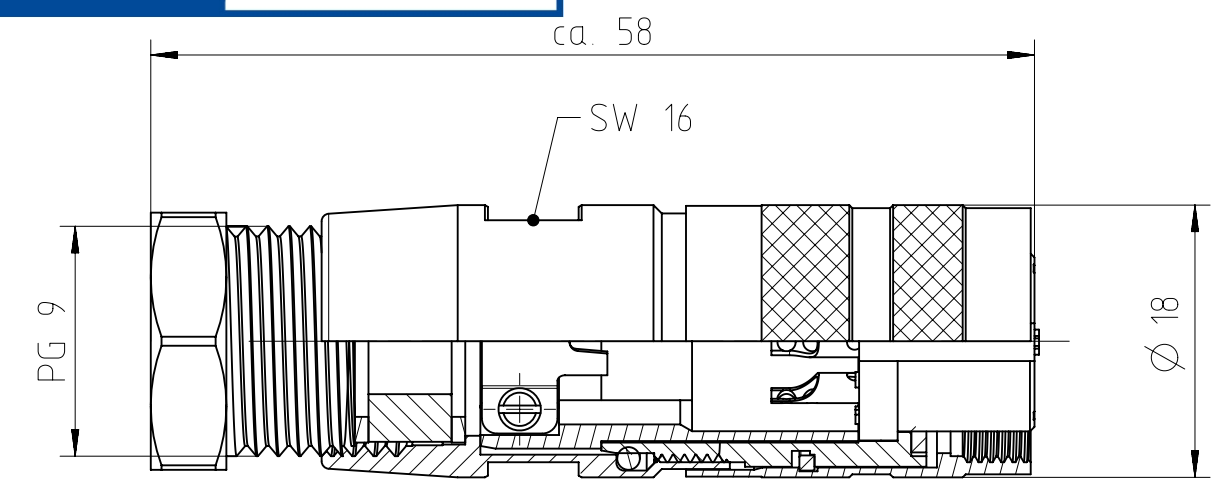


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D	Number of contacts	Standard	3	4	5	5	6	7	7	8	12	14	14	19	
	Contact arrangement	IEC 61076-2-106	03-a	04-a	05-a	05-b	06-a	07-a	07-b	08-a	12-a	14-a	14-b	19-a	
	Contact arrangement	IEC 60130-9 ¹⁾	yes		no	yes		no	yes		no				
	Rated voltage ²⁾	IEC 60664-1	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												
C	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	TEC 60529	IP 69K / IP 67 / IP 65 (in mated condition)												
B	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	IEC 60130-9 DIN EN 61076-2-106	metal screw coupling; tightening torque 0,7 - 1,5 Nm												

^{a)} Edition 2000-05
^{a)} values in brackets are according to DIN EN 61076-2-106
^{a)} designed acc. pollution degree 2, can be used under pollution degree 3 when the rules of IEC 60644-1 are fulfilled
^{a)} 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 101 2 U	C091 31D019 201 2 U
	14 (14-b)	C091 31D114 101 2 U	C091 31D114 201 2 U
	14 (14-a)	C091 31D014 101 2 U	C091 31D014 201 2 U
	12 (12-a)	C091 31D012 101 2 U	C091 31D012 201 2 U
	8 (08-a)	C091 31D008 101 2 U	C091 31D008 201 2 U
	7 (07-b)	C091 31D107 101 2 U	C091 31D107 201 2 U
	7 (07-a)	C091 31D007 101 2 U	C091 31D007 201 2 U
	6 (06-a)	C091 31D006 101 2 U	C091 31D006 201 2 U
	5 (05-b)	C091 31D105 101 2 U	C091 31D105 201 2 U
	5 (05-a)	C091 31D005 101 2 U	C091 31D005 201 2 U
	4 (04-a)	C091 31D004 101 2 U	C091 31D004 201 2 U
	3 (03-a)	C091 31D003 101 2 U	C091 31D003 201 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: 0,041 kg				Zul. Abw./Tolerances:		Maßstab / Scale: 2:1		A3	
Prüfmaß / Testdimension				ISO 2768-c		 DIN / ISO 13715		CUSTOMER DRAWING	
Teileindex / Partindexnumber:									
Bagatelle change:									
				Gez. 08.06.2017		Female cable connector for cable diameter 6-8mm			
				Drawn AZN_NPFEIFFE					
				Status Released					
				Gepr. 11.01.2021					
				Checked MBERTSCH					
				Amphenol Tuchel Industrial GmbH		M C091 31DXXX X01 2 U		Blatt/Sheet	
04 202000083 27.10.2020 MCARL								1	
03 201700004 12.06.2017 NPFEI								1 Bl.	
Index Änderung/Description		Datum/Date		Name		Ers. f. l. Replacement for: M-C091 31DXXX X01 2 Rev02			

FAI2020-003266
NXM-V03