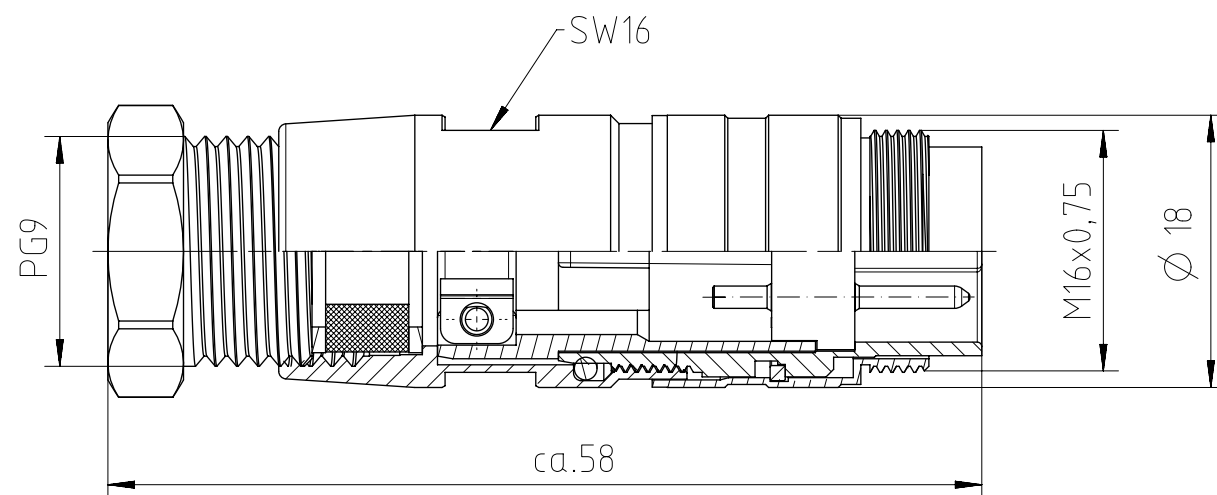


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D	Number of contacts	Standard	3	4	5	5	6	7	7	8	12	14	14	19	
	Contact arrangement	IEC 61076-2-106	03-a	04-a	05-a	05-b	06-a	07-a	07-b	08-a	12-a	14-a	14-b	19-a	
	Contact arrangement	IEC 60130-9 ⁿ	yes		no	yes		no	yes		no				
	Rated voltage ²⁾	IEC 60664-1	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)						
C	Pollution degree ²⁾	IEC 60664-1	1 (3 ³⁾)												
	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 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	IEC 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												

ⁿ Edition 2000-05
²⁾ values in brackets are according to DIN EN 61076-2-106
³⁾ designed acc. pollution degree 2, can be used under pollution degree 3 when the rules of IEC 60644-1 are fulfilled
⁴⁾ 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 2 U	C091 31H019 201 2 U
	14 (14-b)	C091 31H114 101 2 U	C091 31H114 201 2 U
	14 (14-a)	C091 31H014 101 2 U	C091 31H014 201 2 U
	12 (12-a)	C091 31H012 101 2 U	C091 31H012 201 2 U
	8 (08-a)	C091 31H008 101 2 U	C091 31H008 201 2 U
	7 (07-b)	C091 31H107 101 2 U	C091 31H107 201 2 U
	7 (07-a)	C091 31H007 101 2 U	C091 31H007 201 2 U
	6 (6-a)	C091 31H006 101 2 U	C091 31H006 201 2 U
	5 (05-b)	C091 31H105 101 2 U	C091 31H105 201 2 U
	5 (05-a)	C091 31H005 101 2 U	C091 31H005 201 2 U
	4 (04-a)	C091 31H004 101 2 U	C091 31H004 201 2 U
	3 (03-a)	C091 31H003 101 2 U	C091 31H003 201 2 U
Contact arrangement View on mating side	Number of contacts (Contact arrangement acc. DIN EN 61076-2-106)	Part number silver plated contacts	Part number gold plated contacts

Gewicht (errechnet) / Calc WT: 0,039 kg				Zul. Abw./Tolerances: ISO 2768-c		Maßstab / Scale: 2:1 ; 1:1		A3			
 Prüfmaß / Testdimension						CUSTOMER DRAWING					
Teileindex / Partindexnumber:											
Bagatelle change:				 DIN / ISO 13715		Male cable connector for cable diameter 6-8mm					
										Gez.	26.04.2016
										Drawn	MTOLKSDORF
										Status	Released
										Gepr.	11.01.2021
				Checked	MBERTSCH	M C091 31HXXX X01 2 U					
				Amphenol Tuchel Industrial GmbH							
03	202000083	26.10.2020	MCARL	Amphenol Tuchel Industrial GmbH		Blatt/Sheet 1 1 Bl.					
02	201600004	27.04.2016	MTOLK								
Index	Änderung/Description	Datum/Date	Name			Ers. f. / Replacement for: M-C091 31HXXX X01 2 U Rev01					

FAI2020-003274
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