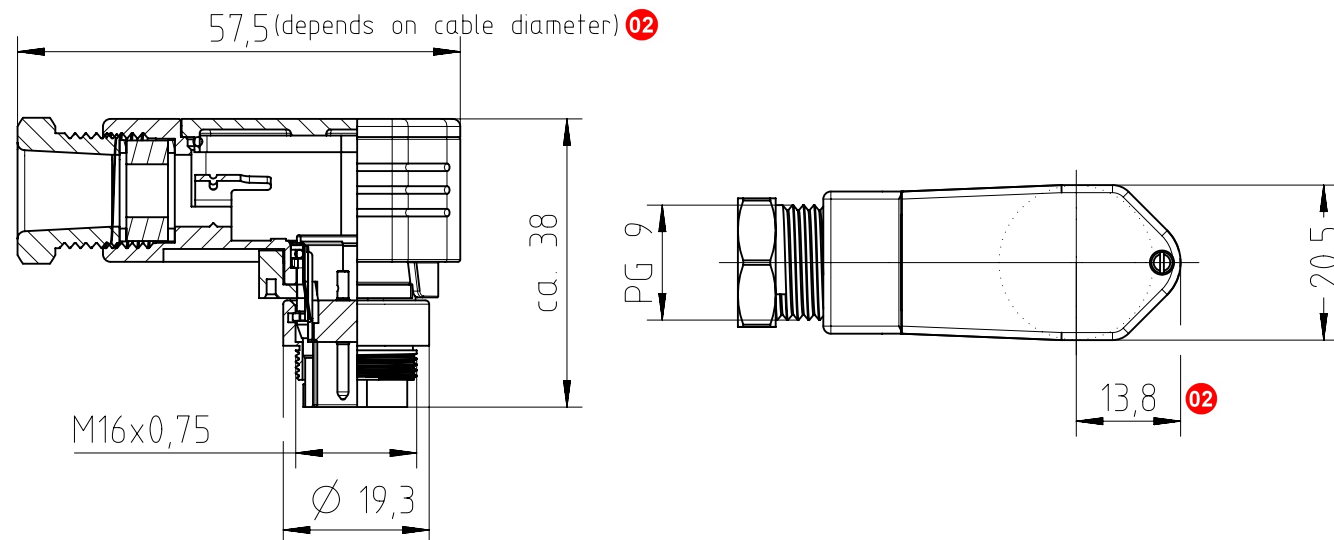


Copying of this document and giving it to others and the use or communication of the contents thereof, are forbidden without express authority. Offenders are liable to the payment of damages. All rights are reserved in the event of the grant of a patent or the registration of the utility model or design.

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.

INDUSTRIAL@AMPHENOL
TRUSTED GLOBALLY



	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
D	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											
	Insulation group	IEC 60664-1	II, 400 ≤ CTI < 600											
C	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)											
	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											
B	dielectric material		thermoplastic											
	sealing material		Chloroprene											
	contacts		silver or gold plated											
	termination technique		solder											
	wire gauge		≤0,5mm ² / 20 AWG								≤0,35mm ² / 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 ("Beschaffenheitsgarantie" or "Haltbarkeitsgarantie").

	19 (19-a)	C091 31K019 101 2 U	C091 31K019 201 2 U
	14 (14-b)	C091 31K114 101 2 U	C091 31K114 201 2 U
	14 (14-a)	C091 31K014 101 2 U	C091 31K014 201 2 U
	12 (12-a)	C091 31K012 101 2 U	C091 31K012 201 2 U
	8 (08-a)	C091 31K008 101 2 U	C091 31K008 201 2 U
	7 (07-b)	C091 31K107 101 2 U	C091 31K107 201 2 U
	7 (07-a)	C091 31K007 101 2 U	C091 31K007 201 2 U
	6 (06-a)	C091 31K006 101 2 U	C091 31K006 201 2 U
	5 (05-b)	C091 31K105 101 2 U	C091 31K105 201 2 U
	5 (05-a)	C091 31K005 101 2 U	C091 31K005 201 2 U
	4 (04-a)	C091 31K004 101 2 U	C091 31K004 201 2 U
	3 (03-a)	C091 31K003 101 2 U	C091 31K003 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 : 0,063 kg				Zul. Abw./Tolerances :		Maßstab / Scale : 1:1		A3			
Prüfmaß / Testdimension				ISO 2768-c				CUSTOMER DRAWING			
Teileindex / Partindexnumber:								Male cable connector r/a for cable diameter 6-8mm			
Bagatelle change:											
				Gez.	20.08.2020						
				Drawn	MCARLE						
				Status	Released						
				Gepr.	02.03.2021						
				Checked	MBERTSCH						
02	202100006	01.03.2021	MCARL	Amphenol Tuchel Industrial GmbH		M	C091 31KXXX X01 2 U				Blatt/ Sheet
01	202000083	26.10.2020	MCARL								1
Index	Änderung/ Description	Datum/ Date	Name			Ers. f. / Replacement for :					1 Bl.

FAI2021-000883
NXM-V01

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Amphenol:](#)

[C091 31K003 101 2](#)