



② Assembly instruction see N 22 091 0023

Number of contacts	Standard	3	4	5	5	6	7	7	8	12	14
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
Rated voltage	IEC 60664-1	150 V		100 V						32 V	
Rated impulse withstand voltage	IEC 60664-1	2500 V		1500 V						800 V	
Pollution degree	IEC 60664-1	3 <sup>1)</sup>									
Installation category	IEC 60664-1	III									
Insulation group	IEC 60664-1	II									
Current rating	IEC 60512-5-3	10A/+40°C			7A/+40°C					3A/+40°C	
Insulation resistance	IEC 60512-3-1	>10 <sup>10</sup> Ohm <sup>2)</sup>									
Contact resistance	IEC 60512-2-1	<5mOhm									
Climatic category	IEC 60668-1	40 / 100 / 21									
Temperatur range		-40°C...+100°C									
IP degree	IEC 60529	IP 68									
Insertion and withdrawal force	IEC 60512-13-2	25N	30N	35N	35N	50N	55N	55N	60N	50N	50N
mechanical operation	IEC 60512-9-1	≥500									
material housing		Zinc die cast, nickel plated									
dielectric material		Thermoplast									
sealing material		Chloroprene									
contacts		silver or gold plated									
termination technique		solder									
wire gauge		≤0,5mm <sup>2</sup>					≤0,35mm <sup>2</sup>				
flamability		UL 94 V0									
locking system		metal screw coupling; tightening torque 0,5 - 0,7Nm									

<sup>1)</sup> under operating conditions >10<sup>8</sup> Ohm  
<sup>2)</sup> designed according pollution degree 2, can be used under pollution degree 3 if the rules according IEC 60664-1 are fulfilled  
 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 ("Beschaffheitsgarantie" or "Haltbarkeitsgarantie").  
 Do not connect or disconnect under load. Metal housing parts shall be securely incorporated to protected ground.

	14 (14-a)	C091 31H014 102 4 U	C091 31H014 202 4 U
	12 (12-a)	C091 31H012 102 4 U	C091 31H012 202 4 U
	8 (08-a)	C091 31H008 102 4 U	C091 31H008 202 4 U
	7 (07-b)	C091 31H107 102 4 U	C091 31H107 202 4 U
	7 (07-a)	C091 31H007 102 4 U	C091 31H007 202 4 U
	6 (06-a)	C091 31H006 102 4 U	C091 31H006 202 4 U
	5 (05-b)	C091 31H105 102 4 U	C091 31H105 202 4 U
	5 (05-a)	C091 31H005 102 4 U	C091 31H005 202 4 U
	4 (04-a)	C091 31H004 102 4 U	C091 31H004 202 4 U
	3 (03-a)	C091 31H003 102 4 U	C091 31H003 202 4 U
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

Gewicht (errechnet) / Calc WT: g		Zul. Abw./Tolerances:		Maßstab / Scale: 2:1		A3			
Prüfmaß / Testdimension		DIN / ISO 13715		Material: Oberfläche:		male cable connector for cable diameters 8-10,5mm		Blatt / Sheet 1	
Teileindex Partindexnumber		2013 Datum/Date		Name		M		C091 31HXXX X02 4 U	
		Gez. 24.06.		Carle					
		Drawn							
		Gepr.							
		Checked							
02 201300837		04.12.13		IM		Amphenol-Tuchel Electronics GmbH		1	
01 201300382		02.07.13		Cm				1 Bl.	
Index		Änderung / Description		Datum / Date		Name		Ers. f. / Replacement for:	

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