

## C 091 B Characteristics

General Characteristics	Standard	Characteristics										
Number of contacts		3	4	5	5 Stereo	6	7	7	8	12	14	
View on termination side of male contact insert												
Contact arrangement	DIN EN 61076-2-106	03-a ✓	04-a ✓	05-a ✓	05-b ✓	06-a ✓	07-a ✓	07-b ✓	08-a ✓	12-a ✓	14-a ✓	
Contact arrangement	IEC 60130-9 <sup>1)</sup>	✓	✓		✓	✓		✓	✓			
<b>Electrical Characteristics</b>												
Rated voltage	IEC 60664-1	300 V ≈			100 V ≈	300 V ≈			150 V ≈			
Rated voltage	UL 1977	250 V									60 V	
Rated impulse withstand voltage	IEC 60664-1	1500 V			1200 V	1500 V			1200 V			
Pollution degree	IEC 60664-1	1										
Installation category	IEC 60664-1	I										
Insulation group	IEC 60664-1	II, 400 ≤ CTI < 600										
Current rating	IEC 60512-5-2 UL 1977	5 A / + 40 °C / + 104 °F please refer also to current derating curves page 59								3 A / + 40 °C / + 104 °F		
Insulation resistance	IEC 60512-3-1	> 10 <sup>10</sup> Ω <sup>2)</sup>										
Contact resistance	IEC 60512-2-1	< 5 m Ω										
<b>Climatic Characteristics</b>												
Climatic category	IEC 60668-1	40 / 100 / 56										
Temperature range	IEC 60668-1	- 40 °C ... + 100 °C / - 40 °F ... + 212 °F										
<b>Mechanical Characteristics</b>												
IP-degree	IEC 60529	IP 40										
Insertion and withdrawal forces	IEC 60512-13-2	25 N 90.oz	30 N 110.oz	35 N 125.oz	50 N 180.oz	55 N 200.oz	60 N 220.oz	50 N 180.oz				
Mechanical operation	IEC 60512-9-1	Silver ≥ 500 mating cycles Gold ≥ 1000 mating cycles										
<b>Materials</b>												
Housing material		die cast, nickel plated										
Dielectric material		thermoplastic										
Contact plating		silver plated / gold plated <sup>3)</sup>										
<b>Further Characteristics</b>												
Termination technique		solder, crimp										
Wire gauge		solder: ≤ 0,5 mm <sup>2</sup> / 20 AWG crimp: 2 - 6 pol (excluding 5S): 0,09 - 1,00 mm <sup>2</sup> / 28 - 18 AWG crimp: 5S, 7, 7S and 8-pol.: 0,09 - 0,75 mm <sup>2</sup> / 28 - 20 AWG								solder: ≤ 0,25 mm <sup>2</sup> / 24 AWG crimp: 0,09-0,25 mm <sup>2</sup> / 28 - 24 AWG		
Flammability		UL 94 V0										
Locking system		bayonet										

**Caution:** Do not connect or disconnect under load. Metal housing parts shall be securely incorporated to protected ground.

<sup>1)</sup> Edition 2000-05

<sup>2)</sup> under operating conditions >10<sup>8</sup> Ω

<sup>3)</sup> 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.

IEC 60 664 ≙ DIN VDE 0110; IEC 60 512-x ≙ DIN EN 60 512-x; IEC 60 130-9 ≙ DIN EN 60 130-9; IEC 61076-2-106 ≙ DIN EN 61076-2-106