

C 091 D 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 ¹⁾	✓	✓		✓	✓		✓	✓				
Electrical Characteristics													
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 ≈)	100 V ≈ (32 V ≈)	150 V ≈ (32 V ≈)					
Rated voltage	UL 1977	250 V							60 V				
Rated impulse withstand voltage ²⁾	IEC 60664-1	1500 V (840 V)		1200 V (500 V)	1500 V (840 V)		1200 V (500 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											
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 ¹⁰ Ω ⁴⁾											
Contact resistance	IEC 60512-2-1	< 5 m Ω											
Climatic Characteristics													
Climatic category	IEC 60668-1	40 / 100 / 56											
Temperature range	IEC 60668-1	- 40 °C ... + 100 °C / - 40 °F ... + 212 °F											
Salt Spray Resistance	DIN IEC 60068-2-11, Test Ka	720h											
Mechanical Characteristics													
IP-degree	IEC 60529	IP 67 and IP 65 (in mated condition)											
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											
Materials													
Housing material		coupling ring brass, strain relief, die cast, nickel plated											
Dielectric material		thermoplastic											
Contact plating		silver plated / gold plated ⁵⁾											
Further Characteristics													
Termination technique		solder, crimp											
Wire gauge		solder: ≤ 0,5 mm ² / 20 AWG crimp: 2 - 6 pol (excluding 5S): 0,09 - 1,00 mm ² / 28 - 18 AWG crimp: 5S, 7, 7S and 8-pol.: 0,09 - 0,75 mm ² / 28 - 20 AWG								solder: ≤ 0,25 mm ² / 24 AWG crimp: 0,09-0,25 mm ² / 28 - 24 AWG			
Flammability		UL 94 V0											
Locking system	IEC 60130-9 DIN EN 61076-2-106	metal screw coupling; tightening torque 0,7 Nm											
UL	UL 1977	Conditions of acceptability											

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

¹⁾ 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 Ω

⁵⁾ 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