

C 091 D



Main Features

- Metal locking ring; screw locking according to DIN EN 60130-9 / EC 60130-9
- Full metal construction
- Protection class IP 65 and IP 67
- Number of contacts: 3 – 8, 12 and 14 contacts
- Internal strain relief
- Good shielding effectiveness when mated and locked
- Male and female cable connectors
 - Straight or right angled
 - Solder connection: 3 – 8, 12 and 14 contacts
 - Crimp connection: 3 – 8 contacts
 - With cable glands for cable diameter 4 – 6 mm or 6 – 8 mm
- Male and female receptacles
 - Panel mount types for front or rear panel mounting
 - PCB mount types, straight
 - With 4-hole flange
 - With dip solder contacts of various contact lengths
 - Solder connection: 3 – 8, 12 and 14 contacts
 - Crimp connection: 3 – 8 contacts
- UL registered under file number E 63 093 UL













UNDERWRITERS LABORATORIES INC.

¹⁾ In general approvals refer to representative versions of the connector series. Test report upon request.

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Characteristics

General Characteristics	Standard	Characteristics									
Number of contacts		3	4	5	5 Stereo	6	7	7	8	12	14
View on termination side of contact insert											
Contact arrangement acc. to DIN		41 524	–	–	41 524	45 322	–	45 329	45 326	–	–
Contact arrangement acc. to EC		60130-9	60130-9	–	60130-9	60130-9	–	60130-9	60130-9	–	–
Electrical Characteristics											
Rated voltage	EC 60664-1	300 V ≈			100V ≈	300 V ≈			100 V ≈	150 V ≈	
Rated voltage	UL 1977	250 V									60 V
Rated impulse withstand voltage	EC 60664-1	1500 V			1200 V	1500 V			1200 V		
Pollution degree	EC 60664-1	1									
Installation category	EC 60664-1	I									
Insulation group	EC 60664-1	II, 400 ≤ CTI < 600									
Current rating	EC 60512-5-2 Test 5b UL 1977	5 A / +40 °C / +104 °F please refer also to current derating curves page 45								3 A / +40 °C / +104 °F	
Insulation resistance	EC 60512-3-1 Test 3a	> 10 ¹⁰ Ω									
Contact resistance	EC 60512-2-1 Test 2a	< 5 m Ω									
Climatic Characteristics											
Climatic category	EC 60668-1	40 / 100 / 56									
Temperature range	EC 60668-1	-40 °C ... +100 °C / -40 °F ... +212 °F									
Mechanical Characteristics											
P-degree	EC 60529	P 67 / P 65									
Insertion and withdrawal forces	EC 60512-13-2 Test 13b	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	EC 60512 Test 9 a	Silver ≥ 500 mating cycles Gold ≥ 1000 mating cycles									
Materials											
Housing material		die cast, nickel plated									
Dielectric material		thermoplastic									
Sealing material		neoprene									
Contact plating		silver plated / gold plated *									
Further Characteristics											
Termination technique		solder, crimp								solder	
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								≤ 0,25 mm ² / 24 AWG	
Flammability		UL 94 V0									
Locking system	EC 60130-9	metal screw coupling; tightening torque 0,5 - 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.

* **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.