

Amphenol

Amphenol-Tuchel Electronics GmbH

C 091 A/B/D Series Circular Connectors



C 091 A



Main Features

- Metal locking ring; screw locking according to DIN EN 60130-9 / IEC 60130-9
- Number of contacts: 2 – 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: 2 – 8, 12 and 14 contacts
 - Crimp connection: 2 – 8 contacts
 - With cable sleeve for max. cable diameter 6 mm, or
 - 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 or right angled
 - With dip solder contacts of various contact lengths
 - Solder connection: 2 – 8, 12 and 14 contacts
 - Crimp connection: 2 – 8 contacts
- Coloured back shells optional
- 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.

C 091 A

Characteristics

| General Characteristics | Standard | Characteristics | | | | | | | | | | |
|---|--------------------------------------|--|---|---|---|--|---|---|---|---|---|--|
| Number of contacts | | 2*+3 | 4 | 5 | 5 Stereo | 6 | 7 | 7 | 8 | 12 | 14 | |
| View on termination side of male contact insert | |  |  |  |  |  |  |  |  |  |  | |
| Contact arrangement acc. to DIN | | 41 524 | – | – | 41 524 | 45 322 | – | 45 329 | 45 326 | – | – | |
| Contact arrangement acc. to IEC | | 60130-9 | 60120-9 | – | 60130-9 | 60130-9 | – | 60130-9 | 60130-9 | – | – | |
| Electrical Characteristics | | | | | | | | | | | | |
| Rated voltage | IEC 60664-1 | 300 V = | | | 100 V = | 300 V = | | 100 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 Test 5 b 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 | IEC 60512-3-1 Test 3 a | > 10 ¹⁰ Ω | | | | | | | | | | |
| Contact resistance | IEC 60512-2-1 Test 2 a | < 5 m Ω | | | | | | | | | | |
| Climatic Characteristics | | | | | | | | | | | | |
| Climatic category | IEC 60068-1 | 40 / 100 / 56 | | | | | | | | | | |
| Temperature range | IEC 60068-1 | - 40 °C ... + 100 °C / - 40 °F ... + 212 °F | | | | | | | | | | |
| Mechanical Characteristics | | | | | | | | | | | | |
| IP-degree | IEC 60529 | IP 40 | | | | | | | | | | |
| Insertion and withdrawal forces | IEC 60512-13-2 Test 13 b | 25 N 90.0z | 30 N 110.0z | 35 N 125.0z | 50 N 180.0z | 55 N 200.0z | 60 N 220.0z | 50 N 180.0z | | | | |
| Mechanical operation | IEC 60512 Test 9 a | 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 ** | | | | | | | | | | |
| 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 | IEC 60130-9 | metal screw coupling; tightening torque 0,7 Nm | | | | | | | | | | |

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

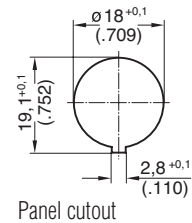
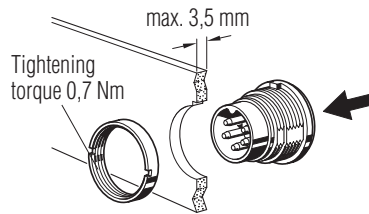
*** 2 contact version: contact loading 1+3**

**** 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

C 091 A

Male receptacle,
screw locking,
rear mounting



| Description | Drawing | No. of cont. | Part Number solder termination | | | Part No. Crimp termination ¹⁾ ring nut | | |
|---|------------|---|------------------------------------|-----------------|--|--|---|---|
| | | | Contact plating silver ring nut | hex nut | Contact plating gold ²⁾ ring nut | | | |
| Male receptacle, termination: solder or crimp, panel mounting with ring nut, contact plating: silver or gold. | | 2 | T 3202 100 | — | — | — | | |
| | | 3 ³⁾ | T 3262 100 | — | — | T 3262 150 ⁴⁾ | | |
| | | 4 ³⁾ | T 3302 100 | — | — | T 3302 150 ⁴⁾ | | |
| | | 5 | T 3362 100 | — | — | T 3362 150 | | |
| | | 5 S ³⁾ | T 3358 100 | — | — | T 3358 150 ⁴⁾ | | |
| | | 6 ³⁾ | T 3402 100 | — | — | T 3402 150 ⁴⁾ | | |
| | | 7 | T 3477 100 | — | — | T 3477 150 ⁴⁾ | | |
| | | 7 ³⁾ | T 3486 100 | — | — | T 3486 150 ⁴⁾ | | |
| | | 8 ³⁾ | T 3506 100 | — | — | T 3506 150 ⁴⁾ | | |
| | | 12 | — | — | T 3637 100 | — | | |
| | | 14 | — | — | T 3652 100 | — | | |
| | | Male receptacle, termination: straight dip solder, pin length 10,5 mm from flange, panel mounting with ring nut, contact plating: silver or gold. | | 3 ³⁾ | T 3262 400 | — | — | — |
| | | | | 4 ³⁾ | T 3302 400 | — | — | — |
| | | | | 5 | T 3362 400 | — | — | — |
| 5 S ³⁾ | T 3358 400 | | | — | — | — | | |
| 6 ³⁾ | T 3402 400 | | | — | — | — | | |
| 7 | T 3477 400 | | | — | — | — | | |
| 7 ³⁾ | T 3486 400 | | | — | — | — | | |
| 8 ³⁾ | T 3506 400 | | | — | — | — | | |
| 12 | — | | | — | T 3637 404 | — | | |
| 14 | — | | | — | T 3652 404 ⁴⁾ | — | | |
| Male receptacle, termination: straight dip solder, pin length 14,5 mm from flange, panel mounting with ring nut, contact plating: silver or gold. | | 3 ³⁾ | T 3262 420 ⁴⁾ | — | — | — | | |
| | | 4 ³⁾ | T 3302 420 ⁴⁾ | — | — | — | | |
| | | 5 | T 3362 420 ⁴⁾ | — | — | — | | |
| | | 5 S ³⁾ | T 3358 420 ⁴⁾ | — | — | — | | |
| | | 6 ³⁾ | T 3402 420 | — | — | — | | |
| | | 7 | T 3477 420 ⁴⁾ | — | — | — | | |
| | | 7 ³⁾ | T 3486 420 | — | — | — | | |
| | | 8 ³⁾ | T 3506 420 | — | — | — | | |
| Male receptacle, termination: straight dip solder, pin length 19,5 mm from flange, panel mounting with ring nut, contact plating: silver or gold. | | 3 ³⁾ | T 3262 430 | — | — | — | | |
| | | 4 ³⁾ | T 3302 430 ⁴⁾ | — | — | — | | |
| | | 5 | T 3362 430 ⁴⁾ | — | — | — | | |
| | | 5 S ³⁾ | T 3358 430 ⁴⁾ | — | — | — | | |
| | | 6 ³⁾ | T 3402 430 | — | — | — | | |
| | | 7 | T 3477 430 | — | — | — | | |
| | | 7 ³⁾ | T 3486 430 ⁴⁾ | — | — | — | | |
| | | 8 ³⁾ | T 3506 430 ⁴⁾ | — | — | — | | |

¹⁾ Please order crimp contacts separately, see page 43

²⁾ see remark page 6

³⁾ Contact order for DIN EN 60 130-9

⁴⁾ Available upon request.

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