

Circular Connectors C 091 D Male cable connector straight; metal, No. of contacts 7, 100 V, EMI protection

Part No. C091 31H107 100 2

Series Circular Connectors C091

Subseries Circular Connector C 091 D



View represents all available contact positions.

| COMMON CHARACTERISTICS         |  |  |
|--------------------------------|--|--|
| No. of contacts                |  | 7  |
| Contact arrangement (DIN)      | DIN EN 60130-9   | 45 329                                   |
| Contact arrangement (IEC)      | IEC 60130-9  | 60130-9                                  |
| Version                        |  | straight; metal                          |
| Cable diameter                 |  | 4-6 mm                                   |
| ELECTRICAL CHARACTERISTICS     |  |  |
| Rated voltage                  | DIN EN 60664-1 / IEC 60664-1                           | 100 V                                    |
| Rated voltage                  | UL 1977  | 250 V                                    |
| Rated impulse voltage          | DIN EN 60664-1 / IEC 60664-1                           | 1200V                                    |
| EMI protection                 |  | EMI protection                           |
| Installation category          | DIN EN 60664-1 / IEC 60664-1                           | I  |
| Insulation group               | DIN EN 60664-1 / IEC 60664-1                           | II, 400 ≤ CTI < 600                      |
| Insulation resistance          | DIN EN 60512-2, Test 3a / IEC 60512-2, Test 3a         | ≥ 10 <sup>10</sup>                       |
| Contact resistance             | DIN EN 60512-2, Test 2a / IEC 60512-2 Test 2a          | < 5 m                                    |
| Current carrying capacity      | DIN EN 60512-3, Test 5b / IEC 60512-2 Test 5b          | 5 A / + 40°C                             |
| Pollution degree               | DIN EN 60664-1 / IEC 60664-1                           | 1  |
| CLIMATIC CHARACTERISTICS       |  |  |
| Climatic category              | DIN EN 60068-1 / IEC 60068-1                           | 40 / 100 / 56                            |
| Temperature range              |  | - 40 °C ... + 100 °C- 40 °F ... + 212 °F |
| MECHANICAL CHARACTERISTICS     |  |  |
| IP degree of protection        | DIN EN 60529 / IEC 60529                               | IP 67 / IP 65                            |
| Insertion and withdrawal force | DIN EN 60512-13-2, Test 13b / IEC 60512-13-2, Test 13b | 55 N<br>200.oz                           |
| Mechanical lifetime            | IEC 60512-5, Test 9a                                   | ≥ 500 mating cycles                      |
| MATERIALS                      |  |  |
| Insert                         |  | Thermoplastic                            |
| Contact plating                |  | silver plated                            |
| Housing                        |  | die cast, nickel plated                  |
| Gasket                         |  | Neoprene                                 |
| FURTHER CHARACTERISTICS        |  |  |
| Termination                    |  | solder                                   |
| Wire gauge                     |  | ≤ 0,5 mm <sup>2</sup>                    |
| Wire gauge (AWG)               |  | ≤ 20                                     |
| Flammability                   | UL 94  | UL 94 V0                                 |
| Locking                        |  | screw                                    |

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Drawing Dimensions in mm (Inch)



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Contact arrangement



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