# ODU MEDI-SNAP<sup>®</sup> STRAIGHT PLUG, SIZE 1, IP50, 12 CONTACTS, 40° KEY

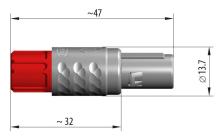


Part number S11MA8-P12MCC9-5220
Type of connector Straight plug
Size 1
Number of contacts 12
Keying 40°
Cable diameter 4 - 5.2 mm



# DIMENSIONS







# **Contact Insert Description**

| Number of contacts        | 12      |
|---------------------------|---------|
| Contact type              | Pins    |
| Contact diameter          | 0.5 mm  |
| Insulator material        | PEEK    |
| Wire cross section        | 28 AWG  |
| Termination type          | Solder  |
| Termination diameter      | 0.45 mm |
| Reverse gender on request |         |



#### **Technical information**

| Max. creepage and air clearance | e 0.5 mm    |  |
|---------------------------------|-------------|--|
| distance                        | (Contact to |  |
|                                 | contact)    |  |
| Nominal current single contact  | 4.0 A       | IEC 60512-5-2:2002 (DIN EN 60512-5-2:2003) |
| Nominal current insert (per     | 2.2 A       | VDE 0298-4:2003                            |
| individual contact)             |             |  |
| Test voltage                    | 1.2 kV DC   | SAE AS 13441:1998 method 3001.1            |
| •                               |             |  |

All shown connectors are rated to a safety extra low voltage (SELV) of less than 50 V AC / 75 V DC, according to IEC 61140:2016 (VDE 0140-1:2016) Protection against electric shock - Common aspects for installation and equipment. In case other standards rule a specific use of the connector, the application specific safety criteria shall be considered first. In this context, lower voltage ratings may be valid. Warning: Danger to life for operating voltages above 50 V AC / 120 V DC!

#### Mechanical and Environmental data

| Degree of protection*      | IP50          |
|----------------------------|---------------|
| Operating temperature      | -50°C - 120°C |
| Mating cycles              | 2000          |
| *mated & unmated condition |               |

### Insulator Materials MEDI-SNAP®

| Flammability rating                              | Standard<br>UL 94                                   | Housing - PSU<br>V-0/4.5 | Insulator - PEEK<br>V-0/1.5 |
|--|---|--------------------------|-----------------------------|
| Operation temperature                            |   | −50 to +170°C            | −50 to +250°C               |
| Dielectric strength                              | IEC 60243-1:2013 (VDE 0303-21:2014)                 | 17 kV/mm                 | 19 kV/mm                    |
| Comparative figure of th<br>creep resistance CTI | eIEC 60112: 2009 (VDE 0303-11:2010)                 | 150                      | 175                         |
| Water absorption                                 | ASTM D 570:1998 / ISO<br>62:2008                    | 0.3 %                    | 0.1 %                       |
| Sterilization (autoclaving) DIN EN 13060:2019-02 |   | ~ 20 cycles              | > 200 cycles                |
| Insulation resistance                            | IEC 60512-3-1:2002<br>(DIN EN<br>60512-3-1:2003-01) |                          | > 1 × 10 <sup>12</sup> Ω    |



#### **Material and Surface Treatments**

| Housing       | PSU black                 |
|---------------|---------------------------|
| Color options | Red                       |
| Contact       | Cu-alloy with gold finish |

#### **General information**

All shown connectors are defined without breaking capacity (COC) according to IEC 61984:2008 (VDE 0627:2009).

The respective selected ODU connectors with data transfer functionality can transmit common data transmission such as HDMI<sup>®</sup> 2.0, USB<sup>®</sup> 3.2 Gen 1x1, FireWire<sup>®</sup> and eSATA<sup>®</sup>, but they are not HDMI<sup>®</sup>-, USB<sup>®</sup>-, FireWire<sup>®</sup>- and eSATA<sup>®</sup>-standard connectors.

ODU MEDI-SNAP® and MINI-SNAP® is UL-approved (E110586).

ODU reserves the right to make changes based on the current state of knowledge without prior notice without being obliged to provide replacement deliveries or refinements of older designs.