ODU MEDI-SNAP[®] FRONT OR REAR PANEL MOUNT RECEPTACLE, SIZE 1, IP50, 12 CONTACTS, 40° KEY



Part number
 G51MA7-P12LCC9-0050

• Type of connector Front or rear panel mount receptacle

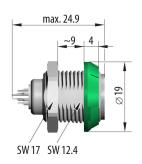
• Size 1

Number of contacts 12

Keying 40°



DIMENSIONS









Contact Insert Description

Number of contacts 12

Contact type Sockets
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

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Technical information

Max. creepage and air clearance 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 5000

*mated & unmated condition

Insulator Materials MEDI-SNAP®

	Standard	Housing - PSU	Insulator - PEEK

Flammability rating UL 94 V-0/4.5 V-0/1.5

Operation temperature -50 to +170°C -50 to +250°C

Dielectric strength IEC 60243-1:2013 (VDE 17 kV/mm 19 kV/mm

0303-21:2014)

Comparative figure of the IEC 60112: 2009 (VDE 150 175

creep resistance CTI 0303-11:2010)

Water absorption ASTM D 570:1998 / ISO 0.3 % 0.1 %

62:2008

Sterilization (autoclaving) DIN EN 13060:2019-02 ~ 20 cycles > 200 cycles

Insulation resistance IEC 60512-3-1:2002 $> 1 \times 10^{12} \Omega$

(DIN EN

60512-3-1:2003-01)

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Material and Surface Treatments

Housing PSU gray
Color options Green

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[®] 2.0, USB[®] 3.2 Gen 1x1, FireWire[®] and eSATA[®], but they are not HDMI[®]-, USB[®]-, FireWire[®]- and eSATA[®]-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.