

General information

| | |
|-------------------|---------------------|
| Part number | S42MC7-T05MPQL-747S |
| Termination | Solder |
| Size | 2 |
| Locking principle | Push-Pull |
| Coding | C (60°) |
| Cable Diameter | 5.4 – 7.4 mm |
| Cable outlet | Cable bend relief |



Illustrations may differ from original product.
Dimensions, unless otherwise specified, in mm.



The pin layout corresponds to the view on the termination area

Contact insert description

| | |
|----------------------|---|
| Number of contacts | 5 |
| Contact type | Pins |
| Contact diameter | 1.3 mm (1x first mate last break, 2x lagging) |
| Insulator material | PBT |
| Wire cross section | AWG 16 |
| Termination | Solder |
| Termination diameter | 1.9 mm |

Reverse gender on request

Technical information

| | | |
|--|---|--|
| Max. creepage and air clearance distance | mated: 9,9-13.6 mm; unmated 3,2 mm (Contact to contact) | IEC 60601-1: 2MOPP, 2MOOP* |
| Nominal current single contact | 16 A | IEC 60512-5-2:2002 (DIN EN 60512-5-2:2003) |
| Nominal current insert | 12 A | VDE 0298-4:2003 |
| Test voltage | mated: 3.5 kV AC; unmated 2.1 kV AC | IEC60664-1:2020 (VDE0110-1:2022-07) |

* As per IEC 60601-1:2012 (VDE 0750-1:2013-12) if a matching 2MOPP/2MOOP receptacle is selected. Max working voltage of the medical electrical device 250 V AC (degree of pollution 2).

Mechanical and environmental data

| | |
|-----------------------|-----------------|
| Degree of protection* | IP64 |
| Operating temperature | -50 °C – 120 °C |
| Mating cycles | 2000 |

*mated with receptacle style 4

Insulator materials MEDI-SNAP®

| | Standard | PBT |
|--|---|-----------------------------|
| Flammability rating | UL 94 | V-0/1.5 |
| Operation temperature | | -50 to +180°C |
| Dielectric strength | IEC 60243-1:2013 (VDE 0303-21:2014) | 27 kV/mm |
| Comparative figure of the creep resistance CTI | IEC 60112: 2009 (VDE 0303-11:2010) | 600 |
| Water absorption | ASTM D 570:1998 / ISO 62:2008 | 0.3 % |
| Insulation resistance | IEC 60512-3-1:2002 (DIN EN 60512-3-1:2003-01) | $> 1 \times 10^{12} \Omega$ |

Material and surface treatments

| | |
|--------------|---------------------------|
| Housing | PSU gray |
| Color option | Gray |
| Contact | Cu-alloy with gold finish |

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

ODU MEDI-SNAP® and MINI-SNAP® are 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.