

Straight push-pull plug; High voltage

Size: 2, IP50, Keying: C, Number of contacts: 5, Solder cup, Contact type: 1x socket / 4x pin



Basic information

Part number	S12MC7-T05MPQL-7470
Category	Connector
Type of connector	Plug
Assembly situation	Straight
Size	2

Contact insert description

Special features	High voltage , IEC 60601-1 (2 MOPP & 2 MOOP)
Number of contacts	5
Contact type	Pins
Contact diameter	1.3 mm
Termination type	Solder cup
Termination diameter	1.9 mm
Wire cross section AWG	AWG 16

Technical information

Nominal current single contact	16 A	IEC 60512-5-2:2002 (DIN EN 60512-5-2:2003)
Max. current insert	12 A	VDE 0298-4:2003
Test voltage	2.1 kV AC	IEC60664-1:2020 (VDE0110-1:2022-07)
Operating voltage	1000 V AC / DC (Pos. 3 & 4)	IEC60664-1:2020 (VDE0110-1:2022-07)
Operating voltage	600 V AC / DC (Pos. 2 & 5)	IEC60664-1:2020 (VDE0110-1:2022-07)
Max. creepage distance (contact to contact)	mated: 9.9-13.6 mm; unmated 3.2 mm [Contact to contact]	
Max. creepage distance (contact to housing)	IEC 60601-1: 2MOPP. 2MOOP*	
Max. clearance distance (contact to contact)	mated: 9.9-13.6 mm; unmated 3.2 mm [Contact to contact]	
Max. clearance distance (contact to housing)	IEC 60601-1: 2MOPP. 2MOOP*	

* 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).

Cable description

Cable outlet	Back nut
Min. cable diameter	5.4
Max. cable diameter	7.4

Mechanical and environmental data

Locking principle	Push-Pull
Keying	Coding 60°
Mating cycles	2.000
IP class	IP50
Max. operating temperature	120 °C
Min. operating temperature	-50 °C
Weight	11.3 g

Material and surface treatments

Material	PSU gray
Insulator material	PBT
Contact material	Cu-alloy with gold finish
Color option (Front or back nut)	Gray

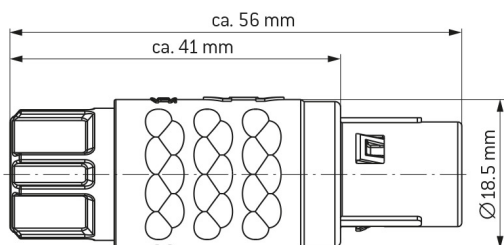
Insulator materials MEDI-SNAP®

	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)	$> 1 \times 10^{12} \Omega$

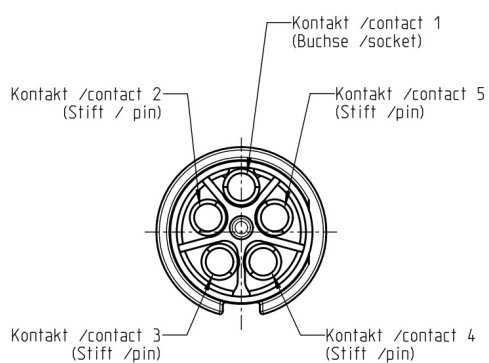
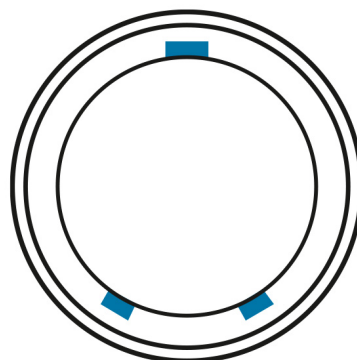
ODU reserves the right to make changes based on the current state of knowledge without prior notice without being obliged to provide replacement deliveries or refinements of older designs.

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

DIMENSIONS:



CODING: 60°



Further technical information and downloads

[3D-File \[STP File\]](#)

[Assembly Instruction](#)