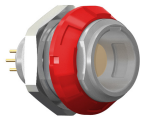


Receptacle with break-away and push-pull locking for front or rear panel mounting

Size: 1, IP50, Keying: 0, Number of contacts: 3, Solder cup, Contact type: Pins



Basic information

Part number	G51M07-P03MJN0-0020
Category	Connector
Type of connector	Receptacle
Assembly situation	Front panel mounting, Rear panel mounting
Size	1

Contact insert description

Special features	High voltage , IEC 60601-1 (1 MOPP & 2 MOPP)
Number of contacts	3
Contact type	Pins
Contact diameter	0.9 mm
Termination type	Solder cup
Termination diameter	1.4 mm
Wire cross section AWG	AWG 18

Reverse gender on request

Technical information

Nominal current single contact	10 A	IEC 60512-5-2:2002 (DIN EN 60512-5-2:2003)
Max. current insert	10	VDE 0298-4:2003
Test voltage	mated: 3.5 kV AC; unmated 2.1 kV AC	EIA-364-20F:2019-02
Max. creepage distance (contact to contact)	mated: 4.7 mm; unmated: 2.0 mm [Contact to contact]	
Max. creepage distance (contact to housing)	IEC 60601-1: 1MOPP. 2MOPP*	
Max. clearance distance (contact to contact)	mated: 4.7 mm; unmated: 2.0 mm [Contact to contact]	
Max. clearance distance (contact to housing)	IEC 60601-1: 1MOPP. 2MOPP*	

Caution: Danger to life due to high electrical voltage! Direct or indirect contact with live parts can result in a dangerous current flowing through the body. Electrical shock, burns or death are possible consequences. Improper handling of these electrical connectors endangers your own life and that of other users. Observe the relevant safety standards and the standards applicable to your application! Attention: Use allowed in environments with pollution degree 2. Double insulation to touchable parts is considered. Electrical data is only valid when mated and correctly assembled according to drawing or data sheet. All applied voltages must have a safe galvanic isolation to earth. Please observe the maximum permitted current and voltage specifications for the connectors!

* As per IEC 60601-1:2012 (VDE 0750-1:2013-12). Max working voltage of the medical electrical device 250 V AC (degree of pollution 2).

Mechanical and environmental data

Locking principle	Break-Away , Push-Pull
Mating cycles	2.000
IP class	IP50
Max. operating temperature	120 °C
Min. operating temperature	-50 °C
Weight	2.39 g

*mated & unmated condition

Material and surface treatments

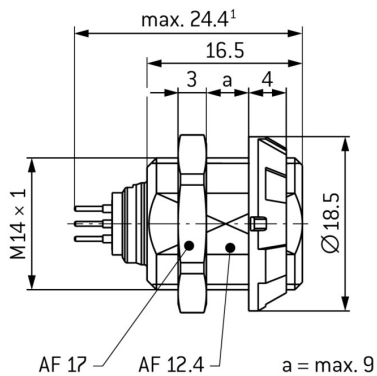
Material	PSU gray
Insulator material	PEEK
Contact material	Cu-alloy with gold finish
Color option (Front or back nut)	Red

Insulator materials MEDI-SNAP®

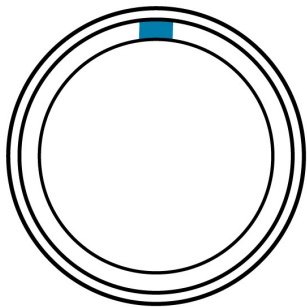
	Standard	PEEK
Flammability rating	UL 94	V-0/1.5
Operation temperature		-50 to +250 °C
Dielectric strength	IEC 60243-1:2013 (VDE 0303-21:2014)	19 kV/mm
Comparative figure of the creep resistance CTI	IEC 60112: 2009 (VDE 0303-11:2010)	175
Water absorption	ASTM D 570:1998 / ISO 62:2008	0.1 %
Insulation 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.

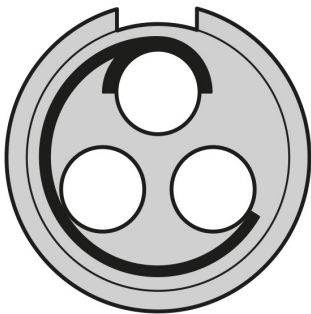
All shown connectors are defined without breaking capacity (COC) according to IEC 61984:2008 (VDE 0627:2009).



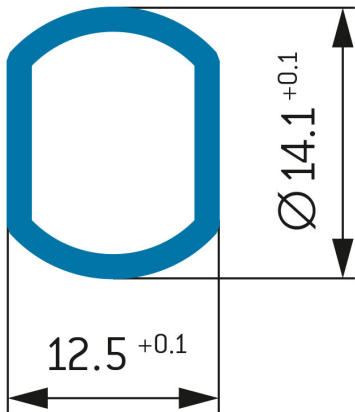
CODING: 0°



POSITIONS: 3 positions



PANEL CUT OUT:



Further technical information and downloads

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