

Straight push-pull plug

Size: 0, IP50, Keying: 0, Number of contacts: 10, Solder cup, Contact type: Pins, USB® 3.2 Gen 1x1 (5 Gbit/s)



Basic information

Part number	S10LOC-P10BMM9-5200
Category	Connector
Type of connector	Plug
Assembly situation	Straight

Contact insert description

Special features	Data transmission
Transmission type	USB® 3.2 Gen 1x1 (5 Gbit/s)
Number of contacts	10
Contact type	Pins
Contact diameter	0.3 mm; 0.5 mm
Termination type	Solder cup
Termination diameter	0.45 mm; 0.7 mm
Wire cross section AWG	AWG 28; AWG 24

Reverse gender on request

Technical information

Max. current single contact	0 A	IEC 60512-5-2:2002 (DIN EN 60512-5-2:2003)
Max. current insert	2.75	VDE 0298-4:2003
Test voltage	0.6 kV AC	SAE AS 13441:1998 method 3001.1
Max. creepage distance (contact to contact)	0.3 mm (Contact to housing)	
Max. creepage distance (contact to housing)	0.6 mm (Contact to housing)	
Max. clearance distance (contact to contact)	0.3 mm (Contact to contact)	
Max. clearance distance (contact to housing)	0.6 mm (Contact to housing)	

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!

Cable description

Cable outlet	Back nut
Min. cable diameter	4
Max. cable diameter	5.2

Mechanical and environmental data

Locking principle	Push-Pull
Mating cycles	5000
IP class	IP50
Max. operating temperature	120 °C
Min. operating temperature	-40 °C
Weight	9.67 g

*mated & unmated condition

Material and surface treatments

Material	Cu-alloy with matt chrome finish
Insulator material	PEEK
Contact material	Gold

Unless explicitly confirmed otherwise the contact arrangement of an ODU data transmission connector differs from a standard data transmission connector due to the robust ODU specific design. However, the ODU design meets the electrical specifications of the respective standard data transmission protocol.

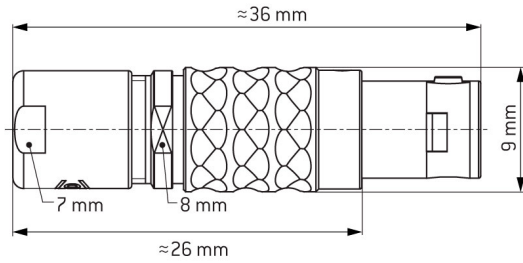
ODU MEDI-SNAP® and MINI-SNAP® are UL-approved (E110586).

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.

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

Graphics and technical drawings

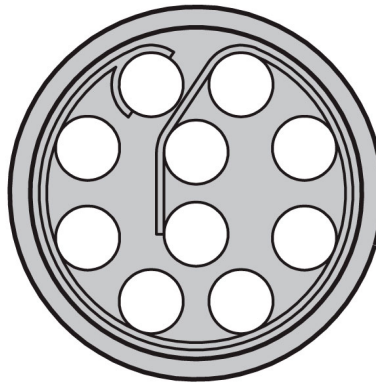
DIMENSIONS



CODING: 0°



POSITIONS: 10 Positions



Further technical information and downloads

	Pos. ODU ¹ [Crossover]	Signal	Color	Note	Signal	Pos. USB ² [Male]
Connection diagram	6, 7	VBUS	Red	–	VBUS	1
	10	D-	White	Twisted pair unshielded	D-	2
	9	D+	Green		D+	3
	2, 3	GND	Black	–	GND	4
	8	SSTX-	Blue	Twisted pair shielded	SSRX-	5
	1	SSTX+	Yellow		SSRX+	6
	Housing	Shield TX	Drain Wire		Shield RX	7
	Housing	Shield RX	Drain Wire		Shield TX	
	5	SSRX-	Orange	Twisted pair shielded	SSTX-	8
	4	SSTX+	Violet		SSTX+	9
Housing			Outer shield		Housing	

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

[Assembly Instruction](#)

[Technical specifications](#)