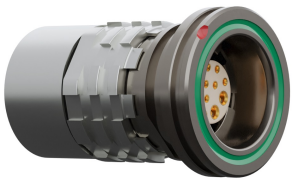
K10WDM-PD1WMM0-0000

ODU AMC® HD

Straight in-line receptacle with break-away locking for bend relief

Size: 0, IP68 / IP6K9K, Keying: D, Number of contacts: 12, Solder cup, Contact type: Sockets, USB® 3.2 Gen 1x1 (5 Gbit/s)



Basic information

Part number	K10WDM-PD1WMM0-0000
Category	Connector
Type of connector	In-line receptacle
Assembly situation	Straight

Contact insert description

Special features	Data transmission
Transmission type	USB® 3.2 Gen 1x1 (5 Gbit/s)
Number of contacts	12
Contact type	Sockets
Contact diameter	0.3 mm; 0.7 mm
Termination type	Solder cup
Termination diameter	0.85 mm
Wire cross section AWG	Hybrid - AWG 22(2x) + 28(10x)

Reverse gender on request

Technical information

Nominal current single contact	1 A	IEC 60512-5-2:2002 (DIN EN 60512-5-2:2003)
Test voltage	0.75 kV DC	EIA-364-20F:2019-02

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	Overmolding
Min. cable diameter	3.2
Max. cable diameter	7

Mechanical and environmental data

Locking principle	Break-Away
Keying	D
Mating cycles	5000
IP class	IP68 / IP6K9K
Max. operating temperature	125 °C
Min. operating temperature	-51 °C
Weight	7.31 g

*IP protection class refers to mated condition

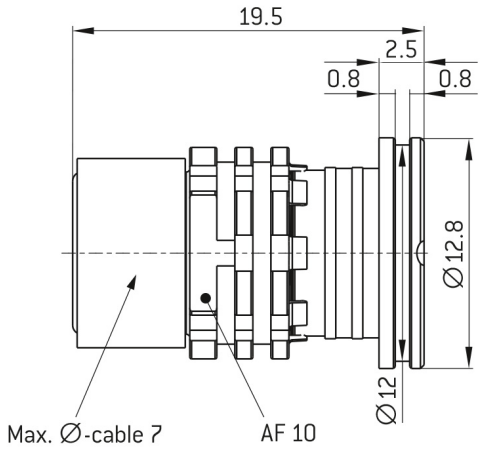
Material and surface treatments

Material	Brass with ruthenium finish
Insulator material	PEEK
Contact material	Cu-alloy with gold finish

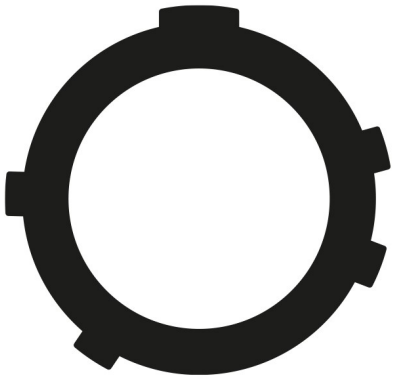
ODU reserves the right to make changes based on the current state of knowledge without prior notice without being obliged to provide replacement deliveries or refinements of older designs.
All shown connectors are defined without breaking capacity (COC) according to IEC 61984:2008 (VDE 0627:2009).

Graphics and technical drawings

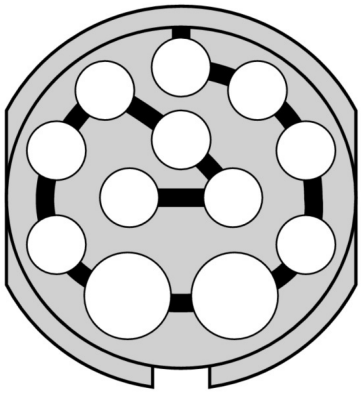
DIMENSIONS:



CODING:C



12 Positions



Further technical information and downloads

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

3D-File (STP File)

Assembly Instruction

Technical specifications