

## Straight break-away plug for bend relief

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



### Basic information

|                    |                     |
|--------------------|---------------------|
| Part number        | A10WDM-PD1XMM0-0000 |
| 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     | 12                          |
| Contact type           | Pins                        |
| Contact diameter       | 0.3 mm; 0.7 mm              |
| Termination type       | Solder cup                  |
| Wire cross section AWG | AWG 28; AWG 22              |

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              | 5.000         |
| IP class                   | IP68 / IP6K9K |
| Max. operating temperature | 125 °C        |
| Min. operating temperature | -51 °C        |
| Weight                     | 6.3 g         |

\*IP protection class refers to mated condition

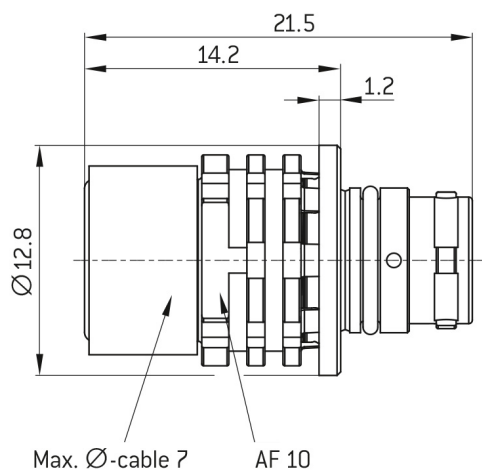
## Material and surface treatments

|                    |                           |
|--------------------|---------------------------|
| Material           | Cu-alloy (blank)          |
| Insulator material | PEEK                      |
| Contact material   | Cu-alloy with gold finish |

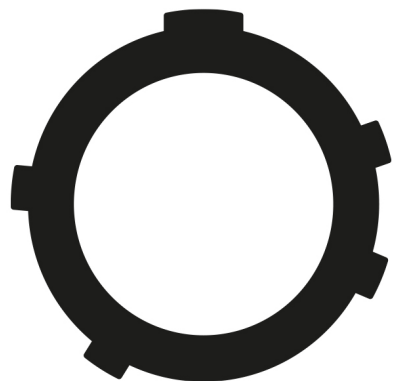
ODU reserves the right to make changes based on the current state of knowledge without prior notice without being obliged to provide replacement deliveries or refinements of older designs.

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

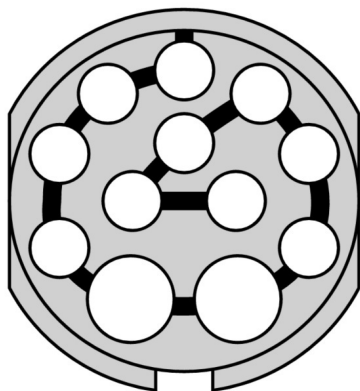
DIMENSIONS:



CODING:D



12 Positions



Further technical information and downloads

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

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

[Assembly Instruction](#)

[Technical specifications](#)