A PERFECT ALLIANCE.

ODU-MAC® Blue-Line

A new performance class.
Up to 2,500 V, 12 bar, 10 Gbit/s, >10,000 mating cycles and 4.0 GHz.

SHORT OVERVIEW

MANUAL MATING
AUTOMATIC DOCKING

ODU-MAC® SILVER-LINE          ODU-MAC® WHITE-LINE

www.odu-connectors.com
THE PRINCIPLE OF MODULAR DESIGN

Look here to see exactly what our modular design looks like. For more detailed information, please visit our website or consult our ODU-MAC Blue-Line catalogue.

2 Possible applications: manual mating or automatic docking

53 Cable hood versions

3 Locking types: spindle, lever and transverse locking

18 Modules to choose from: signal, power, high current, coax, pneumatic, data transmission, fibre optic and PCB termination

3 Different spindle geometries

Removable contacts with clip principle

12 Variations of bulkhead mounted and surface mounted housing and cable-to-cable-hoods in different sizes

OUTSTANDING – FOR EVERY NEED:
Take a closer look at the following pages to discover for yourself the variety of transmission methods we offer, such as USB® 2.0¹, FireWire®, CAT 6A, and Ethernet¹.

¹ These ODU specific connectors can transmit common data transmission protocols such as USB® 2.0, FireWire®, CAT 6A and Ethernet, but they are not USB®, FireWire®, CAT 6A and Ethernet-standard connectors.
The economical connector system is a modular all-around talent that can be configured for the smallest installation space – available in both a plastic and a metal housing. A multitude of data transmission modules enable a broad area of application as a service and interface connector, such as in mechanical engineering, in measurement and testing, as well as in medical technology.

The simple, exceptionally user-friendly assembly and dismantling of the crimp-clip contacts, even if they have already been assembled, distinguish the ODU-MAC Blue-Line as well; a faulty clipping-in of the module is prevented via one mechanical and two optical coding functions. The cost-effective and proven ODU contact technology – turned and slotted contacts – with at least 10,000 mating cycles, as well as the simple processing of the contacts and modules, underscores the economic aspect of the system.

**ODU-MAC® BLUE-LINE – A NEW PERFORMANCE CLASS.**

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**CONVINCING – THE ODU-MAC® BLUE-LINE**

- High-quality, manual connector solution with a variety of housing variants
- Various locking options (spindle and lever)
- Highest packing density
- Easy handling: the simplest clip assembly and removal of the module without tools
- Simplest removal of the crimp-clip contact (when already assembled)
- Separate PCB termination module for an effective contact
- > 10,000 mating cycles
- Numerous data transmission modules

FOR MORE DETAILED INFORMATION, PLEASE VISIT OUR CATALOGUE.
YOUR CUSTOMIZED CONNECTION

The ODU-MAC Blue-Line is a convenient, hybrid manual-connector solution comprising a stable frame, various modules and a housing. Its modular design enables it to combine many individual connectors in one ODU-MAC Blue-Line. The proven ODU spindle locking in the new standard plastic housing provides the ODU-MAC Blue-Line with a truly unique selling point on the market.

MANUAL MATING

Configuration can be customized according to your wishes, offering many options which leave nothing to be desired.

3 TYPES OF LOCKING

First, you select your lock type by choosing between spindle and lever locking.

DIFFERENT CONNECTOR HOUSINGS

According to the lock you choose, you then select the plastic or metal housing best suited to your requirements: cable hood, cable hood XXL or cable hood wide.

RECEPTACLE SELECTION

Depending on your requirements for the receptacle and connector housing, you then choose between bulkhead mounted housing, surface mounted housing or cable-to-cable hood.

SPINDLE LOCKING

Quick-action locking system with 10,000 locking cycles. If required, the simple front replacement set (spindle exchange set) enables a simple adjustment of the spindle geometry. Module for installation in ODU-MAC Blue-Line frames for housings.

FUNCTIONALITY

AUTOMATIC DOCKING

Depending on your requirements, there are 4 different frame lengths to choose from for automatic docking.

4 DOCKING FRAMES

<table>
<thead>
<tr>
<th>Size</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>2</td>
<td>18</td>
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<tr>
<td>3</td>
<td>26</td>
</tr>
<tr>
<td>4</td>
<td>37</td>
</tr>
</tbody>
</table>

Tolerance compensation radial: +/- 0.6 mm
Tolerance compensation axial: min. 0.1 mm

Definition max. continuous current see catalogue ODU-MAC Blue-Line page 147.
These ODU specific connectors can transmit common data transmission protocols such as USB® 2.0, FireWire®, CAT 6A and Ethernet, but they are not USB®-, FireWire®-, CAT 6A- and Ethernet-standard connectors. 

**PCB TERMINATION MODULES**

- **10 contacts / Contact ∅: 0.7 mm**
  - Operating voltage: 250 V
  - Rated impulse voltage: 2,500 V
  - Max. continuous current: 7 A
  - Mating cycles: min. 10,000

- **6 contacts / Contact ∅: 1.3 mm**
  - Operating voltage: 400 V
  - Rated impulse voltage: 2,500 V
  - Max. continuous current: 13 A
  - Mating cycles: min. 10,000

- **5 contacts / Contact ∅: 2 mm**
  - Operating voltage: 630 V
  - Rated impulse voltage: 2,500 V
  - Max. continuous current: 25 A
  - Mating cycles: min. 10,000

1 These ODU specific connectors can transmit common data transmission protocols such as USB® 2.0, FireWire®, CAT 6A and Ethernet, but they are not USB®, FireWire®, CAT 6 and Ethernet-standard connectors. 


3 Definition max. continuous current see catalogue ODU-MAC Blue-Line page 147.
THE ADVANTAGES OF THE PCB TERMINATION ASSEMBLY

The PCB termination modules A are firmly mounted to the board and are connected via an interface to the module B that is plugged into the frame. If a module needs to be replaced, then only the module B installed in the frame must be replaced. Module A that is mounted on the PCB is not affected by this. An effective installation or quick-change function, as the case may be, is thereby achieved.

Long service life
PCB termination modules are manufactured from temperature-resistant PA (soldering temperature 260 °C, 30 seconds)

Economical solution
No cables due to the PCB termination

Convenient exchange
Quick-change system possible for parts subject to wear

Additional earthing
Upon request, additional earthing is possible using earthing pin and socket
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Romania
ODU Romania Manufacturing S.R.L.

USA
ODU-USA, Inc.
ODU North American Logistics

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