

A PERFECT ALLIANCE.



ODU-MAC[®] **Silver-Line** **White-Line**

Compact modular connector system.

Up to 6,300 V, 20 bar, 10 Gbit/s, 100,000 mating cycles and 9.0 GHz.

AUTOMATIC DOCKING
MANUAL MATING

SHORT OVERVIEW



ODU-MAC[®] SILVER-LINE | ODU-MAC[®] WHITE-LINE

ODU-MAC[®] BLUE-LINE

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 Silver-Line | White-Line catalogue.

100,000

Mating cycles and more

2 Possible applications:
automatic docking or manual mating

56 Cable hood versions

6 Different docking frames
independently configurable length

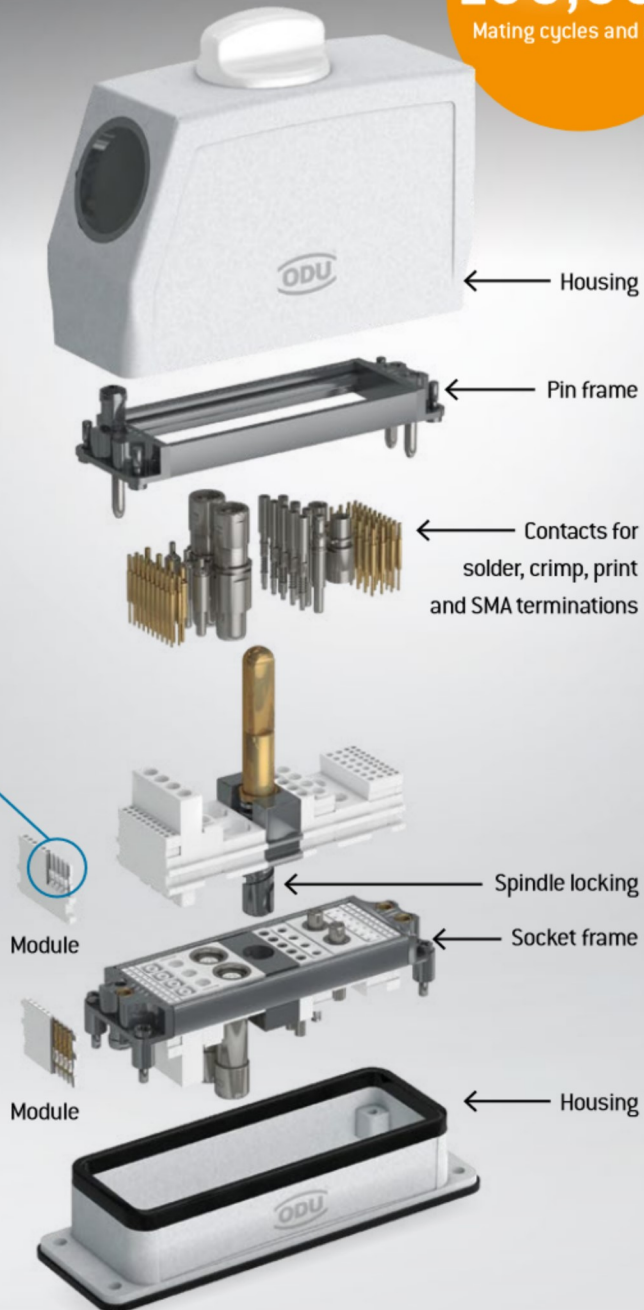
4 Locking types: Snap-In (Break-Away),
spindle or lever locking

Removable
contacts with
clip principle

5 Different spindle geometries

34 Modules to choose from:
signal, power, high current, high voltage, coax,
media such as air or fluid, high-speed data
transmission and fibre optic

13 Variations of bulkhead mounted and
surface mounted housing and various sizes
of cable-to-cable-hoods



OUTSTANDING – FOR EVERY NEED:

Take a closer look at the following pages to discover for yourself the wide variety of transmission methods we offer, such as USB® 2.0¹, USB® 3.1 Gen1¹, HDMI®¹, FireWire®¹, CAT 6_A¹ and Ethernet¹.



Non-magnetic



Modules with this logo
can be used in the
ODU-MAC ZERO.

THE MOST CUSTOMIZED CONNECTORS – THANKS TO THEIR MODULAR DESIGN



ODU-MAC® – ONE UNIVERSAL SOLUTION FOR A GREAT VARIETY OF APPLICATIONS

The ODU-MAC's flexible modular design makes it possible to bring together a variety of connection types within one single contact. Whether signal, power, high current, high voltage, coax, media such as air or fluid, data transmission or fibre optic – all types can be selected from the module and integrated into the individual connector solution. The connection options are just as versatile, with many options available for a variety of applications in industrial electronics or medical technology: Examples include stable frame installation for rack and panel applications or automatic docking, as well as a robust housing version.

The result is a complete connection which is effective, compact and attractive – and unbeatable when it comes to functionality. Confusion due to multiple connections becomes a thing of the past, as a customized ODU-MAC assembly is today's solution for meeting your requirements.

⊕ CONVINCING – THE ODU-MAC®

- ≥ 100,000 mating cycles
- Docking frame versions for automatic docking
- Robust housing versions for use in tough environments or for manual mating
- Easy housing locking with Snap-In, spindle or lever
- Multiple module options available
- Extremely compact due to high contact density
- Termination cross sections available from 0.08 mm² to 50 mm²

FOR MORE DETAILED INFORMATION,
PLEASE VISIT OUR CATALOGUE.



SIMPLY SCAN THE QR CODE
TO DOWNLOAD THE ENTIRE
BROCHURE.

YOUR CUSTOMIZED CONNECTION

The ODU-MAC is available in two basic versions: a flexible, adjustable aluminum frame for automatic docking or a version which is in the housing for manual mating. Both versions can be equipped with modules offering a wide variety of connection types – so you always receive exactly the right hybrid connection.

CONFIGURE YOUR ODU-MAC ONLINE.
SIMPLY GO TO WWW.ODU-MAC.COM.



ODU-MAC® **Silver-Line** AUTOMATIC DOCKING.

Choose from a wide variety of frames and fit them according to your specific requirements.

+ 6 DOCKING FRAMES

Depending on your requirements, you can choose from 6 different frame types for your automatic docking base.

- ODU-MAC® S (Standard)
- ODU-MAC® L (Large)
- ODU-MAC® M+ (Mini)
- ODU-MAC® T (Transverse)
- ODU-MAC® P+ (Power)
- ODU-MAC® QCH (Quick change head)

Tolerance compensation available from ± 0.6 mm up to ± 2.5 mm available

ODU-MAC® **White-Line** 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 Snap-In, lever and spindle locking.

+ DIFFERENT CONNECTOR HOUSINGS

According to the lock you choose, you then select the housing best suited to your requirements. Numerous designs and sizes are available.

+ RECEPTACLE SELECTION

Depending on your requirements for the receptacle and connector housing, you then choose between different variants.

SPINDLE LOCKING

Quick-action locking system with 30,000 locking cycles. Simple front replacement set (spindle exchange set) enables further mating cycles of the complete system. Module for installation in ODU-MAC frames for housings.

FUNCTIONALITY

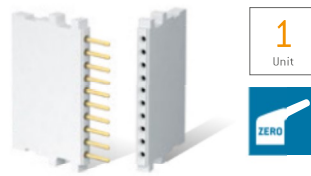


SIGNAL



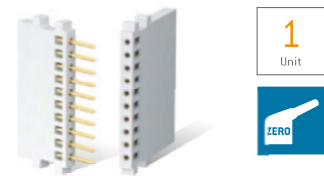
+ 14 contacts / Contact Ø: 1.02 mm

- Operating voltage¹ 320 V
- Rated impulse voltage¹ 2,500 V
- Max. continuous current² 13.5 A at 0.5 mm²
- Mating cycles min. 100,000



+ 10 contacts / Contact Ø: 0.76 mm

- Operating voltage¹ 250 V
- Rated impulse voltage¹ 1,500 V
- Max. continuous current² 11 A at 0.38 mm²
- Mating cycles min. 100,000



+ 10 contacts / Contact Ø: 0.7 mm

- Operating voltage¹ 32 V
- Rated impulse voltage¹ 1,500 V
- Max. continuous current² 6 A at 0.38 mm²
- Mating cycles min. 5,000



+ 6 contacts / Contact Ø: 1.02 mm

- Operating voltage¹ 400 V
- Rated impulse voltage¹ 3,000 V
- Max. continuous current² 13.5 A at 0.5 mm²
- Mating cycles min. 100,000



+ 5 contacts / Contact Ø: 1.5 mm

- Operating voltage¹ 500 V
- Rated impulse voltage¹ 2,500 V
- Max. continuous current² 27 A at 1.5 mm²
- Mating cycles min. 100,000

POWER



+ 4 contacts / Contact Ø: 2.41 mm

- Operating voltage¹ 500 V
- Rated impulse voltage¹ 3,000 V
- Max. continuous current² 41 A at AWG 12
- Mating cycles min. 100,000



+ 3 contacts / Contact Ø: 3 mm

- Operating voltage¹ 500 V
- Rated impulse voltage¹ 3,000 V
- Max. continuous current² 58 A at 6 mm²
- Mating cycles min. 100,000



+ 3 contacts / Contact Ø: 3 mm

- Operating voltage¹ 2,500 V
- Rated impulse voltage¹ 10,000 V
- Max. continuous current² 58 A at 6 mm²
- Mating cycles min. 100,000



+ 2 contacts / Contact Ø: 5 mm

- Operating voltage¹ 1,000 V
- Rated impulse voltage¹ 4,000 V
- Max. continuous current² 119 A at 16 mm²
- Mating cycles min. 100,000



SIMPLY SCAN THE QR CODE TO DOWNLOAD THE ENTIRE BROCHURE.

HIGH CURRENT



+ 2 contacts / Contact Ø: 8 mm

- Operating voltage¹ 500 V
- Rated impulse voltage¹ 3,000 V
- Max. continuous current² 142 A at 25 mm²
- Mating cycles min. 100,000



+ 2 contacts / Contact Ø: 8 mm

- Operating voltage¹ 500 V
- Rated impulse voltage¹ 3,000 V
- Max. continuous current² 154 A at 25 mm²
- Mating cycles min. 10,000



+ 1 contact / Contact Ø: 10 / 12 mm

- Model 10 mm 12 mm
- Operating voltage¹ 250 V 200 V
- Rated impulse voltage¹ 4,000 V 3,000 V
- Max. continuous current² 179 A 220 A
at 35 mm² at 50 mm²
- Mating cycles min. 10,000 min. 10,000

HIGH VOLTAGE



+ 4 contacts

- Operating voltage¹ 2,500 V
- Rated impulse voltage¹ 10,000 V
- Max. continuous current² 27 A at 1.5 mm²
- Mating cycles min. 100,000



+ 1 contact

- Operating voltage¹ 6,300 V
- Rated impulse voltage¹ 20,000 V
- Mating cycles min. 100,000

COAX



+ 4 contacts / 50 Ω

- Frequency range 0 to 1.3 GHz
- Mating cycles min. 60,000



+ 2 contacts / 50 Ω

- Frequency range 0 to 9.0 GHz
- Mating cycles min. 100,000



+ 2 contacts / 50 Ω

- Frequency range 0 to 2.4 GHz
- Mating cycles min. 100,000



+ 2 contacts / 50 Ω

- Frequency range 0 to 2.8 GHz
- Mating cycles min. 100,000



+ 2 contacts / 75 Ω

- Frequency range 0 to 3.0 GHz
- Mating cycles min. 100,000

CONFIGURE YOUR ODU-MAC ONLINE.
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PNEUMATIC AND FLUID MODEL





 <p>5 Units</p>	 <p>16 Units</p>	 <p>8 Units</p>	 <p>5 Units</p>
<p>+ 2 contacts</p> <ul style="list-style-type: none"> • 20 bar • Tube termination M5 for Push-in • Mating cycles min. 100,000 	<p>+ 2 contacts</p> <ul style="list-style-type: none"> • 12 bar • Tube Ø max. 6 mm • Mating cycles min. 100,000 	<p>+ 1 contact</p> <ul style="list-style-type: none"> • 12 bar • Tube Ø max. 6 mm • Mating cycles min. 100,000 	<p>+ 2 contacts</p> <ul style="list-style-type: none"> • 10 bar • Tube termination M5 for Push-in • Mating cycles min. 100,000

FIBRE OPTIC

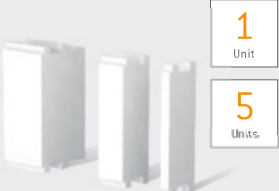



 <p>2 Units</p>	 <p>5 Units</p>	 <p>4 Units</p>
<p>+ 5 contacts / POF</p> <ul style="list-style-type: none"> • Typical insertion loss 1.5 dB at 670 nm • Mating cycles min. 40,000 	<p>+ 2 contacts / POF</p> <ul style="list-style-type: none"> • Typical insertion loss 1.5 dB at 670 nm • Mating cycles min. 100,000 	<p>+ 3 contacts / GOF</p> <ul style="list-style-type: none"> • Single mode/multi mode • Mating cycles min. 100,000

SHIELDED IMPLEMENTATION / HIGH-SPEED CONNECTOR

[Suitable for all common bus systems]

 <p>5 Units</p>	 <p>6 Units</p>	 <p>7 Units</p>
<p>USB® 2.0³, USB® 3.1 Gen1³, FireWire®³, Ethernet³</p> <p>+ 2 to 10 contacts / size 0</p> <ul style="list-style-type: none"> • Mating cycles min. 10,000 • Selected inserts are suitable and certified for data rates of up to 5 Gbit/s 	<p>USB® 2.0³, Ethernet³</p> <p>+ 2 to 14 contacts / size 1</p> <ul style="list-style-type: none"> • Mating cycles min. 10,000 with springwire min. 60,000 • Selected inserts are suitable and certified for data rates of up to 1 Gbit/s 	<p>HDMI®³, CAT 6_A³, Ethernet³</p> <p>+ 4 to 16 contacts / size 2</p> <ul style="list-style-type: none"> • Mating cycles min. 10,000 with springwire min. 60,000 • Selected inserts are suitable and certified for data rates of up to 10 Gbit/s
 <p>8 Units</p> <p>Ethernet³</p>	<p>+ 10 to 30 contacts / size 3</p> <ul style="list-style-type: none"> • Mating cycles min. 10,000 • Selected inserts can be certified for data rates 	

ADDITIONAL MODULES

 <p>1 Unit</p> <p>3 Units</p> <p>5 Units</p>	 <p>1 Unit</p> <p>2 Units</p> <p>3 Units</p> <p>5 Units</p>	 <p>1 Unit</p>	 <p>1 Unit</p>
+ Blank modules	+ Spacer module	+ Coding modules	+ Pin protection modules

This modules can be used in the ODU-MAC ZERO.



A PERFECT ALLIANCE.

ODU GROUP WORLDWIDE



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PRODUCTION AND LOGISTICS SITES

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Mexico	ODU Mexico Manufacturing S.R.L. de C.V.
Romania	ODU Romania Manufacturing S.R.L.
USA	ODU-USA, Inc. ODU North American Logistics



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