



MP Series

**One connector,
infinite possibilities**

- **Modular and configurable connector system**
- **Extreme high-density and space saving design**
- **Expandable and future proof connectivity solution**

The new innovative MP Series product - The Modular Plastic Series - complements the REDEL connector family. It goes beyond the traditional connectors allowing customers to Configure, Design and Build their own custom connector easily in a modular way from a broad range of standard modules.

This series features a wide choice of standard modules for power, signal, data, fibre optic and fluidic connectivity that can be combined into one single connector to address an extensive range of applications. The flexible and interchangeable design allows you to transition easily to different configurations for future generations of your product without an interface design change.

This innovative product is designed to target an evolving heterogeneous market segment where there are connectivity challenges for demanding applications in the medical, test and measurements, security and industrial applications amongst others.

REDEL MP series Models



The modular MP system

50+ module combinations feasible including many hybrid ones.

The innovative modular system with the insulator rack allows up to 4 different single modules to be integrated. Depending on the requirements and the type of contacts needed, the module selected will occupy either a “Single” or a “Double” slot in the insulator rack. The connectors can accommodate a set of any 4 single, 2 double or a mix of single and double modules in the insulator rack. A “blank” module is also available to fill any unused slots in the connector.

New Modular Insert concept

The innovative modular system is based on a new insulator rack that enables integration of up to 4 different modules.

Multiple transmission types

The new modular insert concept enables the combination of multiple transmission types such as power, signal, data, fiber optic, or fluidic in a single connector.

Online Product Configurator

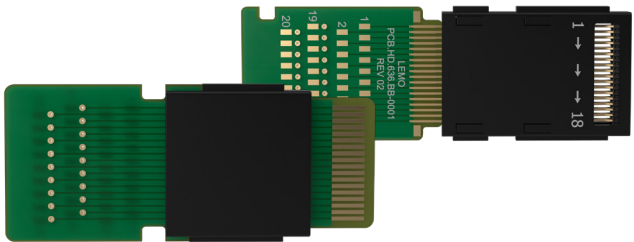
Experience the simplicity of the configurator to customise your own REDEL MP solution. Visit www.redelmp.lemo.com

This series features a wide range of standard module options from **low voltage**, **fibre optic**, **coax**, **high density**, **fluidic**, and **hybrid** to address almost any application within the same connector footprint.

Low voltage modules	High density modules	Hybrid modules	Fibre optic modules	Blank
<div>• 5 contacts • 6 contacts • 17 contacts</div> <div>• Ø 0.9 mm • Ø 0.7 mm • Ø 0.7 mm</div>	<div>• 36 contacts</div>	<div>• 2 contacts of either coax, F1 fibre optic or fluidic</div>	<div>• 2 contacts • F2 fibre optic</div> <div>• 3 contacts • F7 fibre optic</div>	<div>• No contact</div>
<div>• Single • Single • Double</div>	<div>• Single</div>	<div>• Double</div>	<div>• Double • Double</div>	<div>• Single</div>

High density modules

The REDEL MP Series introduces high contact density modules, a breakthrough innovation enabling up to 144 contacts (4x36) in a compact connector through the Card Edge concept. These high-density modules can also be customised with integrated intelligence, such as an EEPROM



Key features

- Modularity Mix with 4 slots
- High density up to 144 contacts
- Integration of custom intelligence possible
- Compact and space saving design
- Quick and easy dip in / dip out assembly
- Inner Push-Pull locking mechanism
- Blind mating
- Scoop proof
- Plastic shell made of polyphenylsulfone
- Suitable for sterilisation

Some key Technical characteristics of the connector housing

Electrostatic Discharge	15 kV
Endurance	> 2000 cycles
Ingress Protection Index (mated)	IP50
Min. & Max. operating temperature	-50°C/+170°C*
Sterilisation cycles	20 cycles

* Max temp. valid for all modules except high density

Main benefits

Customise and configure your own connector in a flexible and modular way.

Contact mix in a single connector – power, signal, data, fibre optic and fluidic.

Improved cleanability and safety thanks to **inner push-pull mechanism**.

Expandable and future proof connectivity solution.

Extreme high-density and space saving design.
Up to 144 contacts in a 1-inch connector.

Custom Intelligence integration.

Cable assembly available.

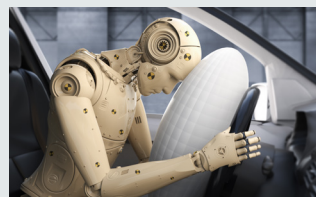


Main applications

Highly configurable and flexible, the Redel MP is the perfect solution for demanding connectivity challenges in the Medical, Test & Measurement and industrial applications.



Medical
Electrophysiology, cardiac mapping, surgical robots

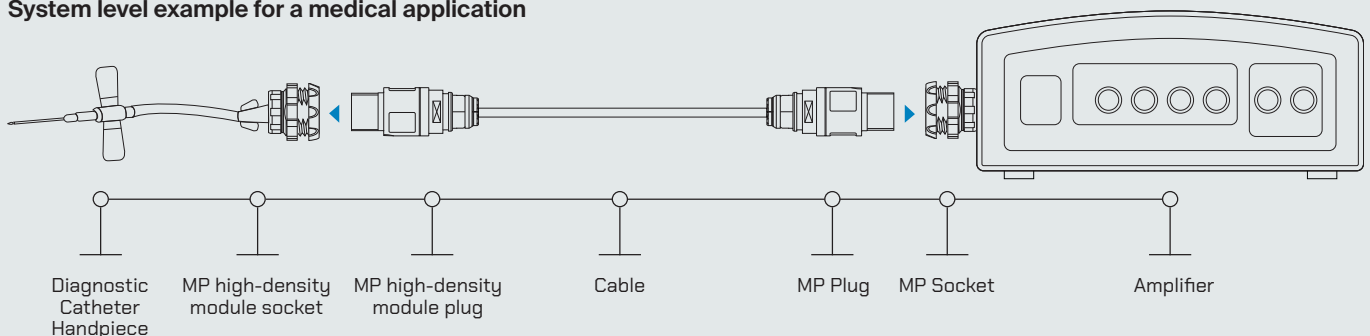


Test & Measurement
Metrology



Industrial control

System level example for a medical application



Empowering connectivity

About LEMO

With a strong legacy of excellence and innovation, the LEMO Group is a global leader in providing high performance custom interconnect solutions. From the depth of the oceans to the far reaches of outer space, no matter how harsh the environment may be, our connectors and cable solutions are chosen, wherever connections are too critical, precious, or vital to fail. Offering over 90,000 product combinations that continue to grow through custom specific designs, our

subsidiaries and 20 distributors have built a global network of strong, dedicated local resources with unmatched technical expertise and understanding of customer requirements. Thanks to our global network, we serve more than 150,000 customers in over 80 countries worldwide. All our staff of 2000 people are united to accomplish the same mission: to guarantee to our customers interconnect solutions that exceed their current requirements and anticipate their future expectations.

Years of experience	+75
Employees	+2000
Custom solutions	90000
Subsidiaries	20
Distributors	+20
Customers worldwide	+150000
Countries	+80

LEMO, your ideal partner

• One-to-One local engineering expertise and technical support for system integration

• Strong supply chain and global distribution network

• Custom interconnect solutions for specific project requirements including rapid prototyping

• Certified interconnect solutions in compliance with industry standards

• Vertical integration ensuring reliable, high-quality interconnect solutions and sustained availability



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