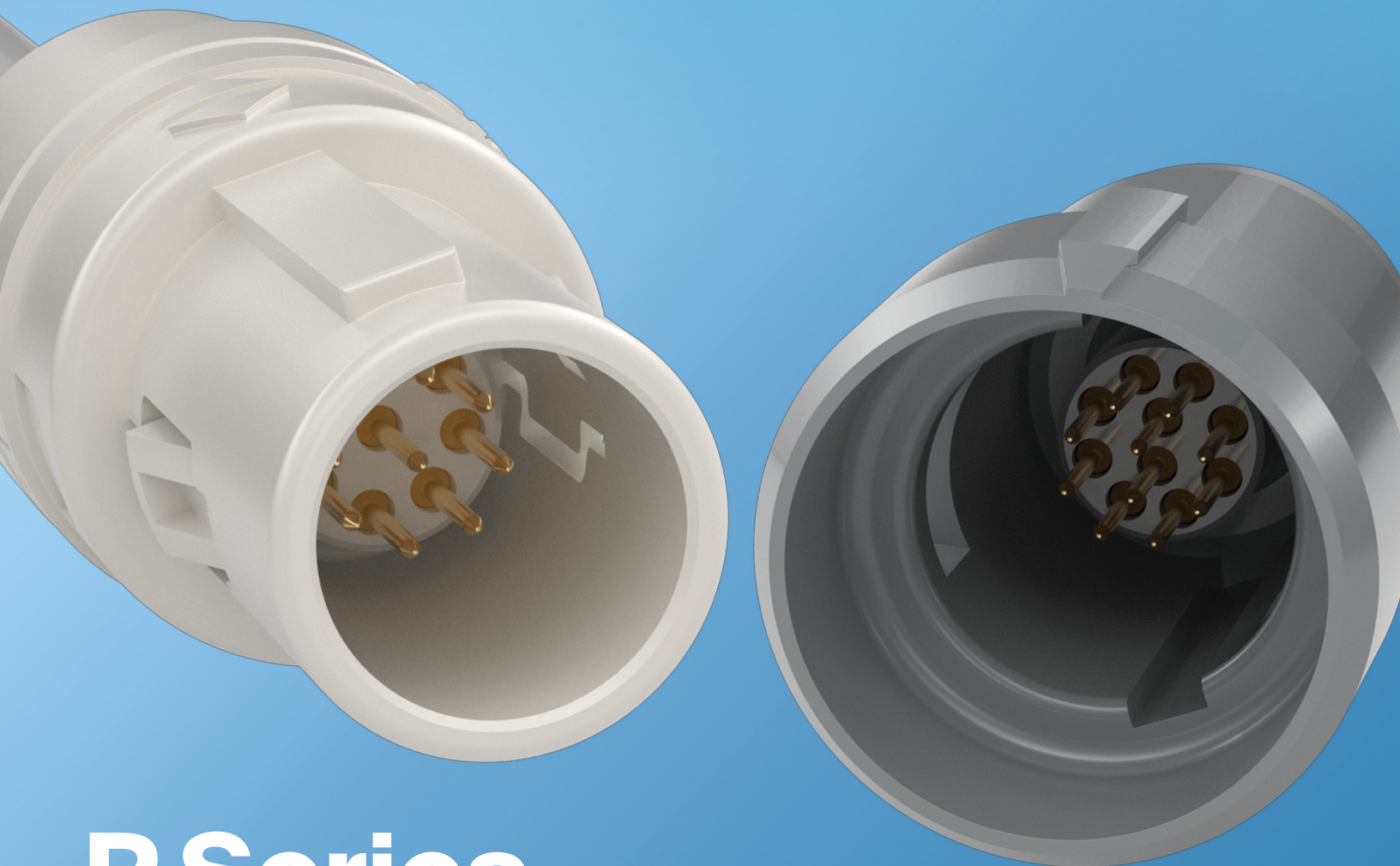




P Series

Disposable Plastic Connectors Engineered for High-Volume Medical Applications

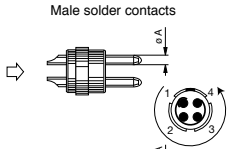
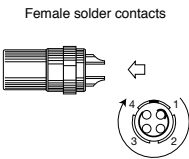
- **Reliable performance with consistent signal integrity**
- **High density up to 34 contacts in a small $\varnothing$ 18mm**
- **Up to 5 kV pin-to-pin**
- **Easy integration with snap-in, hardware-free design option**
- **Optimized efficiency through single-use innovation**

Disposable connectivity without compromise.

REDEL Disposable connectors are engineered for electro-surgical applications where reliability, production scalability and cost are critical. Combining LEMO's Push-Pull locking system with a disposable patient-side interface, this Series delivers secure mating, reliable electrical performance, and simplified hardware-free integration through a snap-in receptacle design.

Machined and Gold-plated contacts ensure signal integrity, while the disposable side minimizes material usage and cost. With high contact density, multiple keying options, and up to 5 kV pin-to-pin capability, this Series supports advanced single-use medical applications, including PFA and PEF therapies requiring precise energy delivery.

The P Series Disposable Configurations

			Reference	Number of contacts	Contact ø (mm)	Solder bucket ø (mm)	Crimp bucket ø (mm)	Contact type				Test voltage (kV DC) Contact-contact	Air clearance min (mm) Creepage distance min (mm)	Rated current (A)
								Solder	Crimp	Print (straight)	Print (elbow)			
Multipole			M0.4	4	0.9	0.8	—	•	—	—	—	1.70	1.20	8.0
			M0.8	8	0.7	0.6	—	•	—	—	—	1.48	0.60	5.0
			M0.9	9	0.5	0.44	—	•	—	—	—	1.20	0.60	3.0
			M1.0	10	0.5	0.44	—	•	—	—	—	1.20	0.55	3.0
			M1.2	12	0.5	0.44	—	•	—	—	—	0.75	0.50	2.5
			M1.4	14	0.5	0.44	—	•	—	—	—	0.85	0.50	2.0
Multipole			M26	26	0.5	0.5	—	•	—	—	—	1.27	0.55	2.0
			M34	34	0.5	0.4	—	•	—	—	—	0.92	0.30	1.5
High Voltage + High Density - PFA			H26*	26	0.5	0.4	—	•	—	—	—	6.0	5.6	1.0
			H34*	34	0.5	0.4	—	•	—	—	—	5.6	5.6	1.0



***For insert configurations H26 and H34:**
The installation of the dedicated tubes on each contact, supplied with the connector is essential to achieve the creepage and air clearance distances indicated in the table.
For the additional potting we recommend using the biocompatible EPO-TEK MED-353ND resin.

For more technical details, refer to the P Series catalog.
Click or scan QR code.



Key features

- Reliable disposable mating
- Push-Pull latching system
- High-density contacts in a small Ø18 mm
- Snap-in design for direct device integration
- Multiple keying options for safe mating
- Machined and Gold-plated contacts

Technical characteristics

Mechanical endurance	>20 mating cycles
Ingress protection index (mated)	IP50
Housing material	PSU or ABS
Working temperature range	-50°C/+150°C (PSU)
Sterilization	EtO, Gamma, X-ray

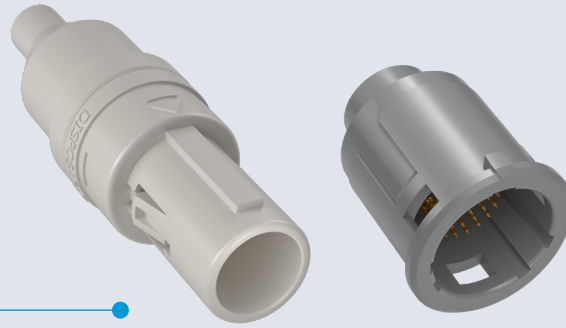
PSU: Polysulfone / ABS: Acrylonitrile Butadiene Styrene

User's benefits

Reliable connection – single-use simplicity

Secure mating – flawless signal integrity and mechanical reliability

Flexible design – scalable and easy to integrate



High contact density – up to 34 pins with keying and snap-in design

Optimized solution – disposable interface

Sterilization compatibility – EtO, gamma, e-beam, X-ray

Main applications



Surgical and electro-surgical devices
Generators, handpieces and treatment systems



EP Catheters and interventional devices
Disposable and EP catheters (PFA/PEF)

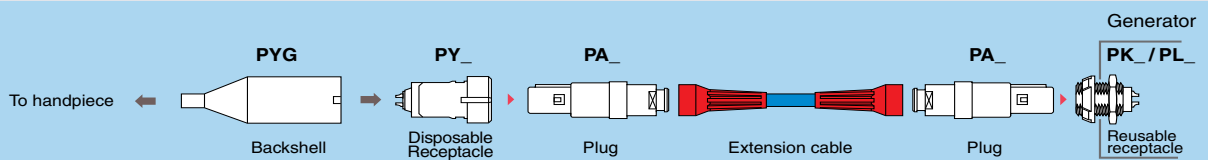


Diagnostics, monitoring and therapy
Imaging and patient monitoring

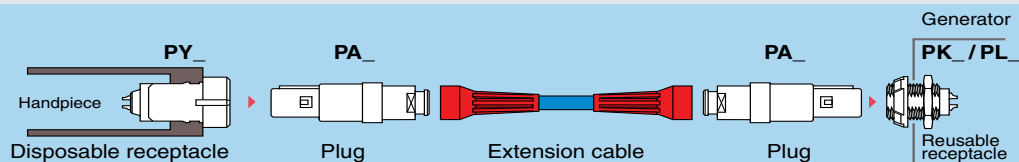
Combining disposable efficiency with secure Push-Pull connectivity and high-density configurations, the REDEL Disposable Series simplifies integration while ensuring reliable and patient-safe performance.

Application Use-Cases

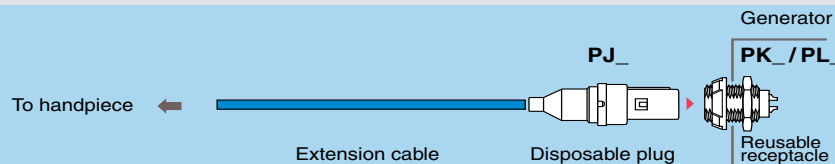
REDEL 1P Free Receptacle →



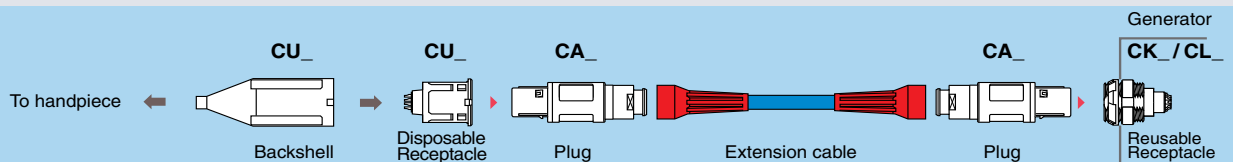
REDEL 1P Handpiece Mounted →



REDEL 1P Disposable Plug →



REDEL 2P Disposable Receptacle →



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 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 2,000 people are united to accomplish the same mission: to guarantee to our customers interconnect solutions that exceed their expectations by designing and delivering products that combine innovation, reliability, and exceptional service.

Years of experience	80
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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