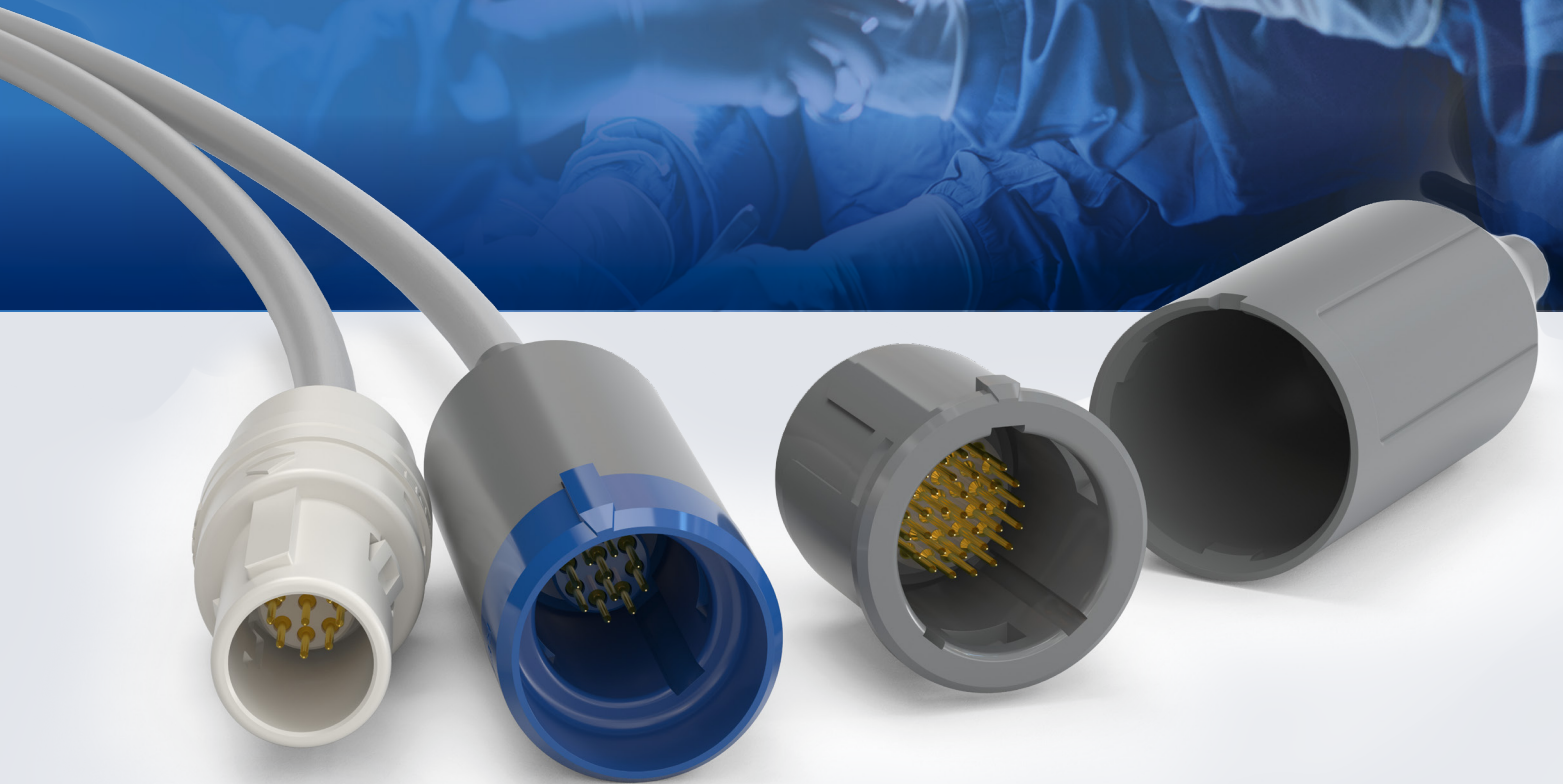
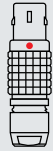


P Series Disposable Plastic Connectors

Engineered for High-Volume
Medical Applications



LEMO Solutions Portfolio

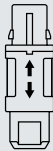


1 ORIGINALS

Your configurable solution

- Self-Latching Push-Pull locking
- Wide & modular range
- Broad application reach
- Indoor & outdoor

Series	B, K, T
	S, E



2 REDEL

Your trusted medical solution

- Medical and Industrial grade plastics
- Device ergonomics
- Electrical safety
- High density & modularity

Series	P
	SP
	MP



3 OPTIMA

Your optimised solution

- Compact & miniature
- Lightweight & low-profile
- High vibration resistance
- IP68 & MIL-STD tested

Series	M
	F
	D



4 SUPREME

Your extreme solution

- High/Low pressure
- Radiation & corrosion
- High Voltage
- Regulated environments

Series	N
	W
	Y



5 SPECIALTIES

Your specialised solution

- Industry standards
- Special configurations
- Historical products

Series	3K.93C.Y, 00 Nim-Camac
	V, 2G/2C, R



6 CABLES

Your unique cable solution

- Design expertise
- In house prototype to production
- Custom cables
- Conductive & hybrid

Series	Technical cables
	Biocompatibility
	Automation & high-flex
	Retractable coil cords
	Ruggedised

SERVICES

Cable assembly services (single-end, double-end, custom harness, overmolding)

Custom solution (connector, cable, device)

Signal integrity end-to-end services

How we partner and innovate with you

From early ideation through prototyping, validation, and post-market support, our team works side-by-side with yours — ensuring every connector meets the highest standards of performance, usability, and regulatory readiness.

With LEMO, you are never working alone.

You gain a committed partner focused on delivering not just a component, but a trusted, patient-centric solution — engineered with precision and delivered with care.



1

Discovery & Requirements

Gain a clear understanding of the device, clinical environment, and application-specific needs.



2

Co-Engineering & Solution Design

Leveraging CAD models, prototypes, and material insights, we partner with you to co-develop a custom or semi-custom connector — engineered to meet your exact specifications.



3

Prototyping & Validation

Accelerate development with rapid prototyping and validation to ensure functional and regulatory compliance.



4

Production & Supply

By delivering a finalized production and supply plan, supported by comprehensive quality assurance documentation, we ensure reliable and scalable manufacturing tailored to your production volumes and timelines.



5

Ongoing Support & Lifecycle Management

As your long-term partner, we provide comprehensive post-market support from revision management and detailed documentation to obsolescence strategies, product redesigns, and future innovations committing to deliver global, end-to-end service and support.

Product safety notice & disclaimers

Please read and follow all instructions specified on the last page or on our [website](http://www.lemo.com) carefully and consult all relevant national and international safety regulations for your application. Improper handling, cable assembly, or wrong use of connectors can result in hazardous situations.

LEMO products and services are provided “as is.” LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security.

In no event shall LEMO be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of LEMO’s products.

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REDEL Disposable Connector Series

Disposable connectivity without compromise.

LEMO's REDEL Disposable Connector Series provides high-performance connectors for critical electro-surgical applications. The series combines LEMO's proven reliability with a cost-effective disposable solution designed for single-patient use.

The design maintains the premium materials and quality of the reusable interface while optimizing the disposable patient side, preserving Gold-plated contacts for reliable electrical performance. Engineered for medical environments, REDEL connectors deliver consistent performance while remaining economical for single-use integration.



REDEL Connector Configurations and Applications

The REDEL Disposable Series is engineered for high-volume medical applications, combining configurable connector solutions with scalable automated manufacturing and cable assembly capabilities to support OEM production demands while helping control costs.

REDEL 1P Disposable Receptacle

The REDEL 1P Receptacle is a well-established disposable solution compliant with ANSI/AAMI HF18:2001 for electrosurgical devices. Its snap-in design eliminates additional hardware and enables direct integration into surgical handpieces.

Optional snap-on backshells in PSU or ABS are available for cable mounting. Reverse-gender keyways are standard on 9, 10, 12 and 14 pin versions, with additional color and keying options available to prevent incorrect mating. The receptacle mates with a reusable plug.

REDEL 1P Disposable Plug

The REDEL 1P Disposable Plug mates with the reusable 1P receptacle and is designed for applications where an extension cable is not required. Its two-piece construction minimizes material usage while maintaining highly reliable machined, Gold-plated contacts.

The standard keyway is G, with optional A, B, or C keyways available.

REDEL 2P Disposable Receptacle

The REDEL 2P Receptacle extends the series for electro-surgical catheters requiring higher pin counts, offering 26 and 34 contact configurations. It features male contacts in the disposable receptacle and female contacts in the reusable mating plug, with H and J keyway options for low-voltage configurations and the X keyway for high-voltage configurations.

Configurability & Standards

REDEL disposable connectors are available with multiple color options, keying configurations, and backshell sizes to support integration across a wide range of medical devices. This Series complies with major sterilization standards, including ISO 11135:2014 (EtO), and ISO 11137-1, -2, -3 (gamma, e-beam, and X-ray). For detailed sterilization methods and cycle compatibility, customers are encouraged to contact LEMO.

Typical Applications



Disposable catheters



Diagnostics and imaging



Surgical and therapeutic devices

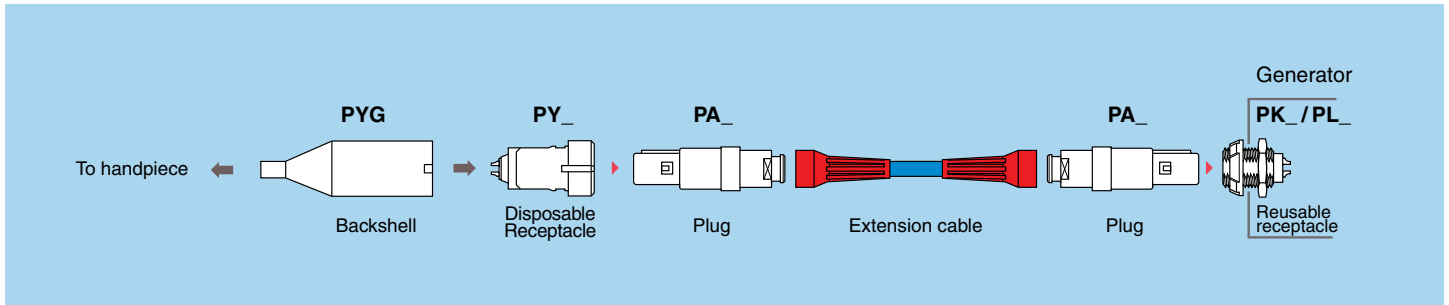


Patient monitoring

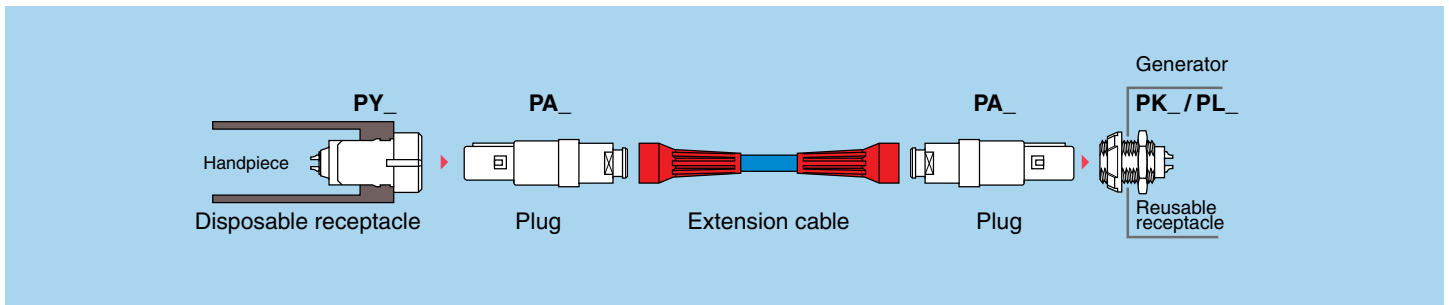


EP catheter pulse field ablation (PFA)

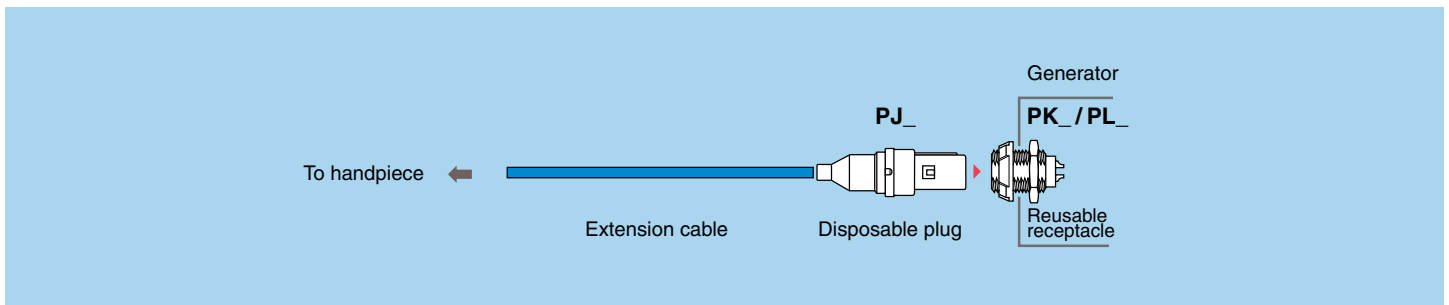
REDEL 1P Free Receptacle



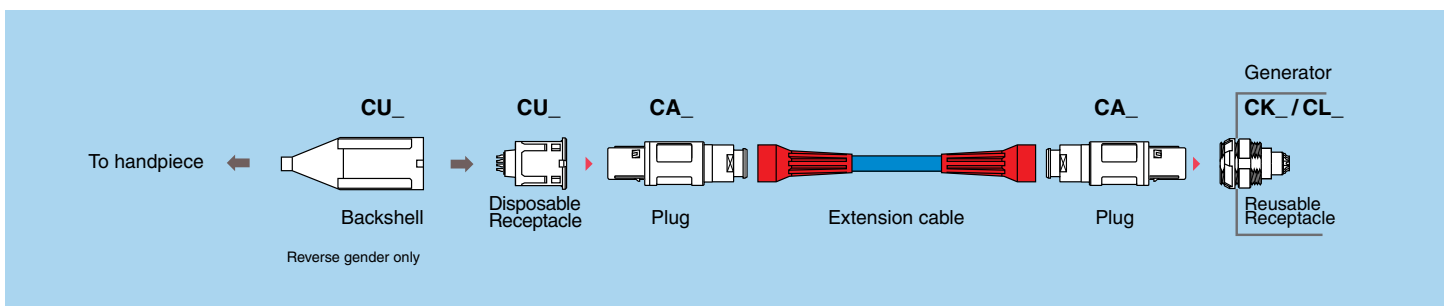
REDEL 1P Handpiece Mounted



REDEL 1P Disposable Plug



REDEL 2P Disposable Receptacle

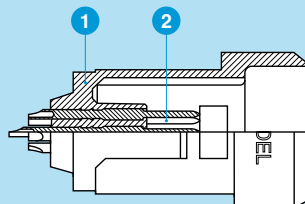




P Y . M . G .

1P Disposable Receptacle

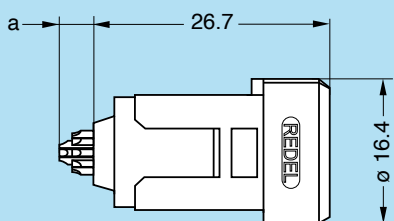
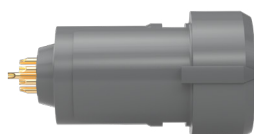
- 1 Outer Shell
2 Contact



Characteristics	Value	Standards
Endurance for PY (Latching)	>20 Cycles	IEC 60512-5 test 9a
Working Temp. Range (PSU)	-50° / +150° C	-
Average latching force*	6N	IEC 60512-7 test 13a
Average unmating force*	7N	IEC 60512-7 test 13a

* Note: Without contacts.

PY_ Fixed receptacle, snap on fixing



Note: 1P receptacle PY_ does not mate to water-resistant plug PF_. All dimensions are in millimeters.

Same Color Code
P Y J . M 1 . 0 G G . A G

Reverse Gender:
H, J
with male contact type "A" only

Standard Gender:
G, A, B
with female contact type "L" only

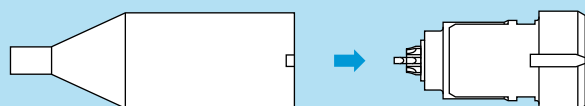
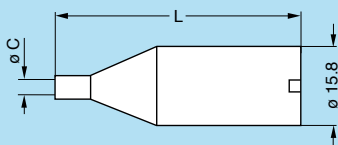
Number of Contacts
See chart Below

Color
B = White
G = Gray
A = Blue
J = Yellow
N = Black
R = Red
V = Green

Contact Type
A = Male
L = Female

Contact Code	Dimension a	Contact Ø (mm)	Solder Bucket Ø (mm)	Keyways
0.4	2.4	0.9	0.8	G, A, B
0.8	4.2	0.7	0.6	H
0.9	3.9	0.5	0.44	H, J
1.0	3.9	0.5	0.44	A, H, J
1.2	3.9	0.5	0.44	H, J
1.4	3.9	0.5	0.44	A, G, H, J

PYG Backshell for PY_ receptacle



PYG

PY_

Note: All dimensions are in millimeters.

P Y G . 0 2 . 7 Y G . 0 A B S

ØC:
02.5 = 2.5mm*
02.7 = 2.7mm*
03.8 = 3.8mm
* For 67.1mm length only.

Color:
G = Gray (standard)
B = White
A = Blue
J = Yellow
N = Black
R = Red
V = Green

Material:
ABS (standard)
PSU

L:
0 = 47 mm
1 = 67.1 mm**

** Extended backshell provides more room for electronics.

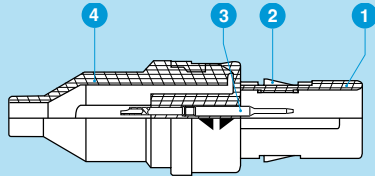


P J . M . . A

1P Disposable Plug

Fixed plug

- 1 Outer Shell
- 2 Latch
- 3 Male solder contact
- 4 Backshell

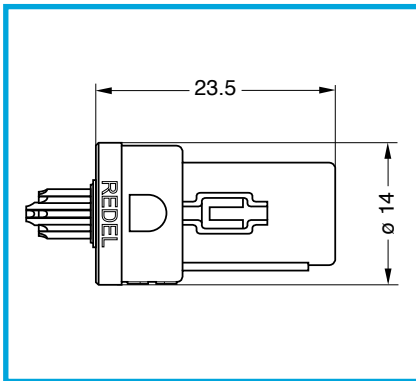


Characteristics	Value	Standards
Endurance for PJ (Latching)	>20 Cycles	IEC 60512-5 test 9a
Working Temp. Range (ABS)	-30° / +90° C	-
Outer Shell / insulator material	PSU	-
Backshell material	ABS	-

PJG Straight plug

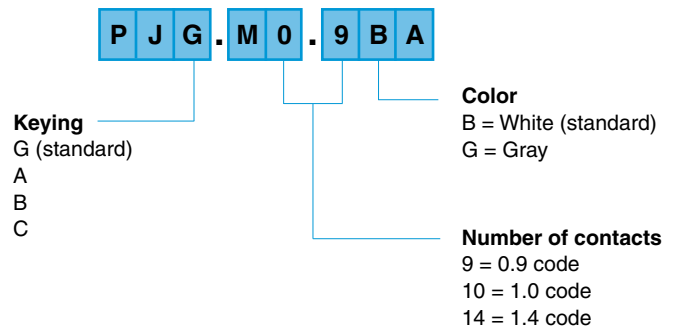


Figure 1 - Outer shell



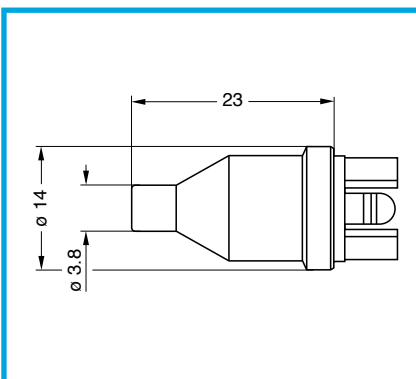
Note: All dimensions are in millimeters.

Figure 1



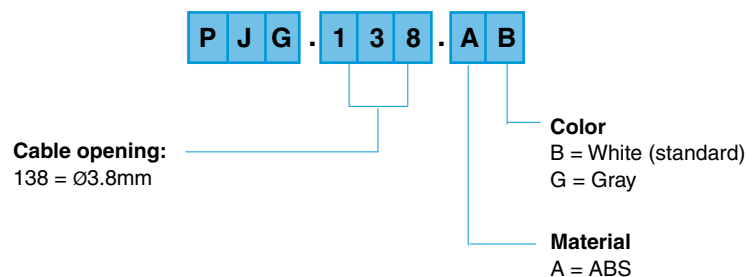
Note: Not compatible with PN • or PY • receptacles.
Configurable & customizable upon request.

Figure 2 - Backshell



Note: All dimensions are in millimeters.

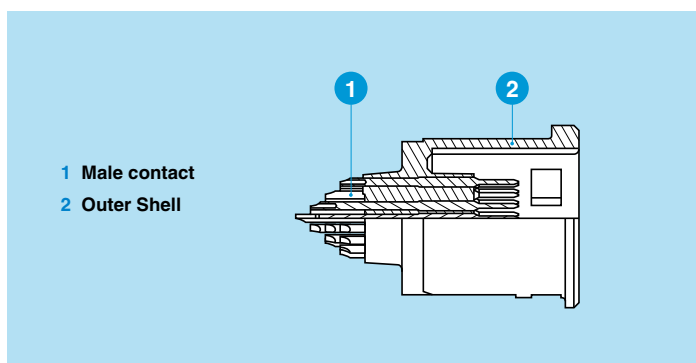
Figure 2



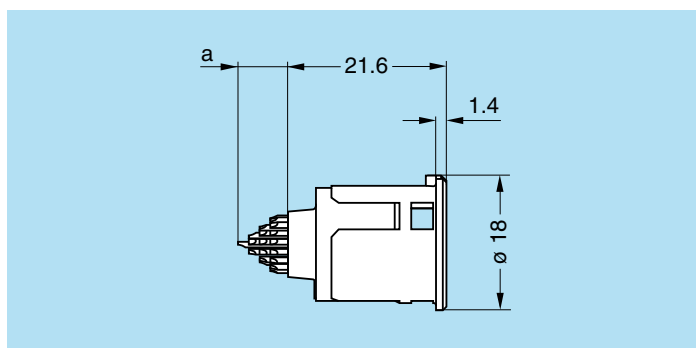
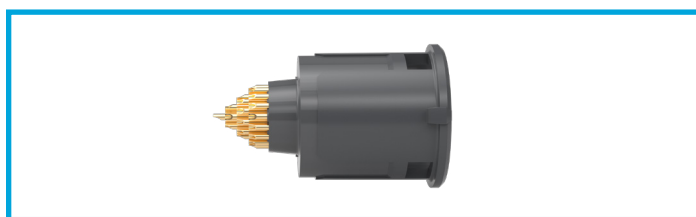


C U . M . A

2P Disposable Low-Voltage Receptacle

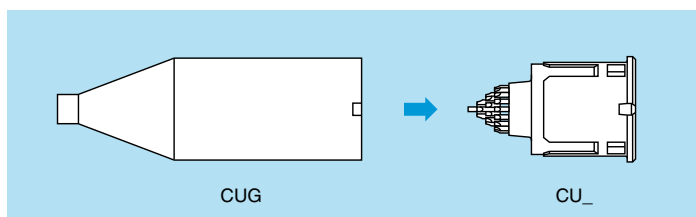
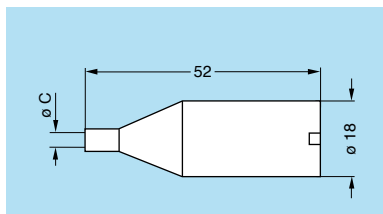
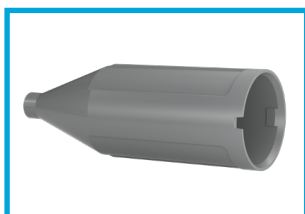


CU_ Fixed receptacle, snap on fixing



Note: Reverse gender configuration only (male contacts).
Not compatible with CF_ water-resistant or standard male-contact plugs.
All dimensions are in millimeters.

CUG Backshell for CU_



Note: All dimensions are in millimeters.

Characteristics	Value	Standards
Endurance for CU (Latching)	>20 Cycles	IEC 60512-5 test 9a
Working Temp. Range (PSU)	-50° / +150° C	-
Outer Shell / insulator material	PSU	-
Average latching force*	5.5N	IEC 60512-7 test 13a
Average unmating force*	8.5N	IEC 60512-7 test 13a

* Note: Without contacts.

Keying:	Color
H	G = Gray (standard)
J	B = White
	A = Blue
	J = Yellow
	N = Black
	R = Red
	V = Green

Number of Contacts	Øa
26	5.5
34	7.0

Note: Reverse gender configuration with male contacts only.

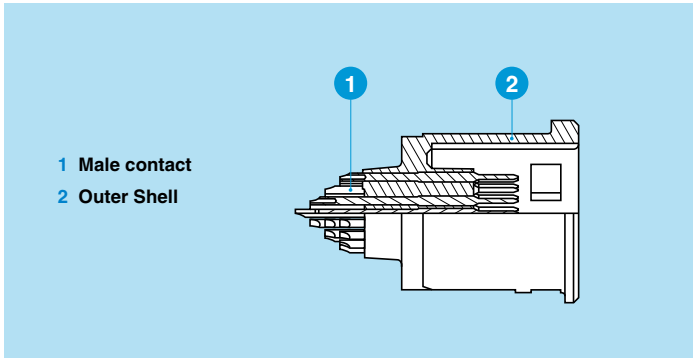
ØC:	Color:	Material:
025 = 2.5mm	G = Gray (standard)	A = ABS
032 = 3.2mm	B = White	
052 = 5.2mm		

Note: ABS working temperature -30°C / +90°C.



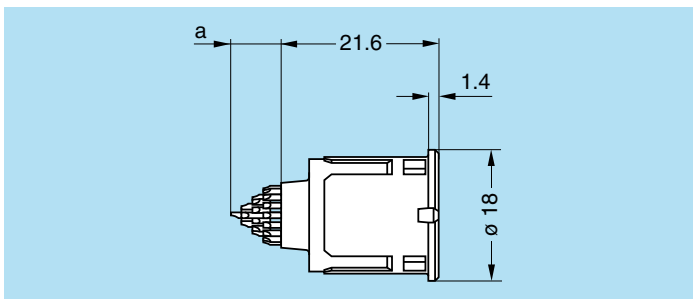
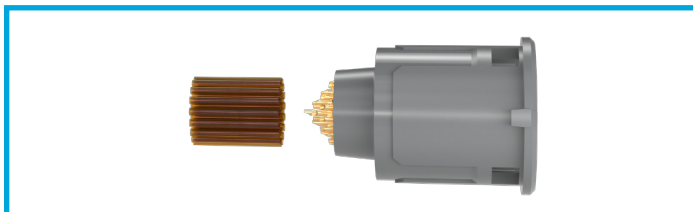
C U X . H . . W

2P Disposable High-Voltage Receptacle



Characteristics	Value	Standards
Endurance for CU (Latching)	>20 Cycles	IEC 60512-5 test 9a
Working Temp. Range (PSU)	-50° / +150° C	-
Outer Shell / insulator material	PSU	-
Average latching force	5.5N	IEC 60512-7 test 13a
Average unmating force	8.5N	IEC 60512-7 test 13a

CUX Fixed receptacle, snap on fixing



Note: All dimensions are in millimeters.

* 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.

Keying: X

Number of Contacts: 26, 34

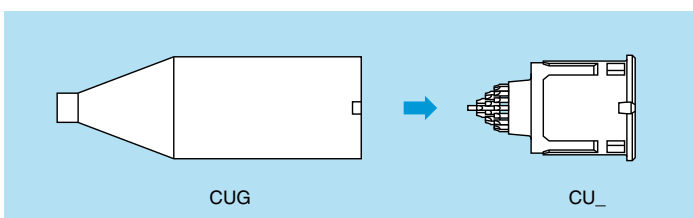
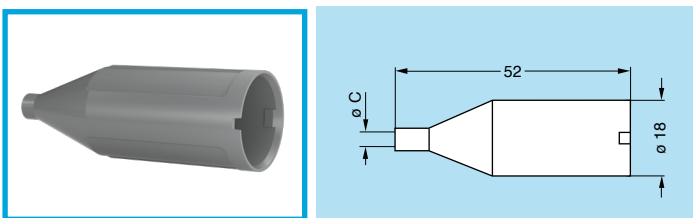
Color:
G = Gray (standard)
B = White
A = Blue
J = Yellow
N = Black
R = Red
V = Green

Number of Contacts	Dimension a
26*	5.5
34*	7.0

→ On Demand

Note: Special assembly required. Only mates with high voltage version plug.

CUG Backshell for CU_



Note: All dimensions are in millimeters.

ØC:
025 = 2.5mm
032 = 3.2mm
052 = 5.2mm

Color:
G = Gray
B = White

Material:
A = ABS

Note: ABS working temperature -30°C / +90°C.
Can be used for both LV and HV CU_ models.



P Y . M . G .

Insert configurations 1P

	Male solder contacts	Female solder contacts	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



C U X . . .

Insert configurations 2P

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



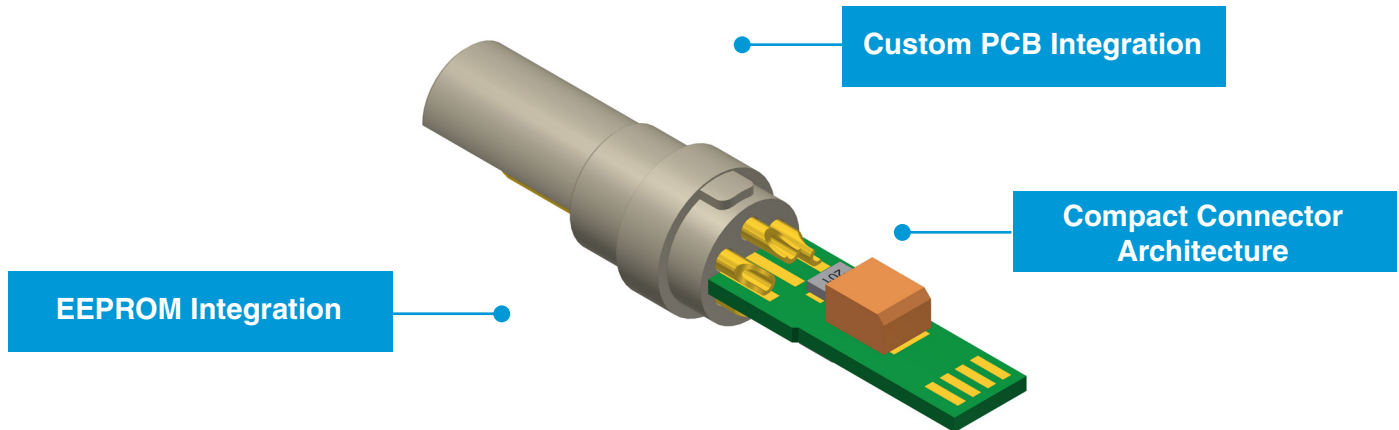
For more technical details , please refer to the [P Series catalog](#).
Click or scan QR code.



Integrated Electronics Solutions

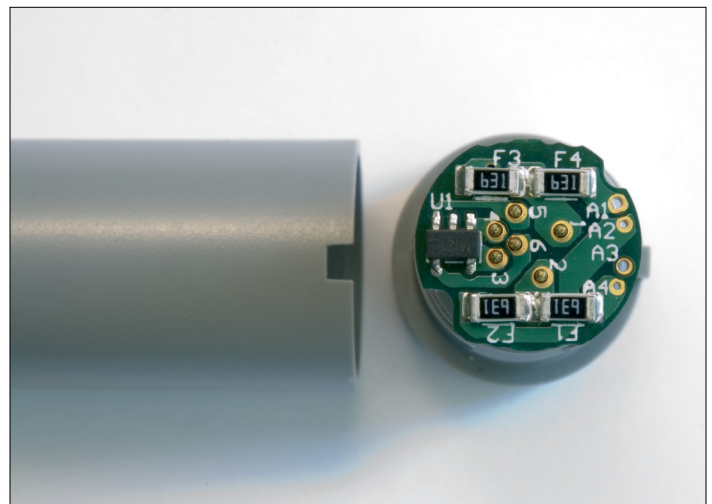
Intelligent functionality beyond connectivity

LEMO integrates EEPROMs, custom PCBs and electronic components directly within connector and cable assembly solutions, enabling device recognition, data storage and application-specific functionality within a compact interconnect architecture.



Key benefits:

- **Device identification:** Automatically recognize connected devices and accessories
- **Usage tracking:** Support disposable lifecycle management and usage monitoring
- **Calibration data storage:** Store device-specific calibration values and offsets
- **Authentication:** Enable product verification and accessory recognition
- **Plug-and-play functionality:** Reduce setup time and simplify device integration
- **Compact system design:** Add functionality without increasing instrument footprint



From EEPROM integration to custom PCB assemblies, LEMO develops intelligent connectivity solutions tailored to advanced disposable and reusable medical devices.

Consultation → Design → Prototype → Validation → Scalable Production

From device recognition to application-specific circuitry

LEMO supports a wide range of electronic integration options, from simple EEPROM implementations to fully customized PCB assemblies for advanced medical applications. These capabilities support device identification, authentication and application-specific functionality directly within the interconnect system.

EEPROM integration

EEPROM integration provides a compact and efficient method for storing device-specific information directly within the connector assembly.

Capabilities:

- Device Identification
- Usage tracking
- Product serialization
- Calibration data storage
- Authentication protocols

Custom PCB integration

Custom PCBs can be integrated within connector and cable assembly solutions to support advanced electronic functionality and system performance.

Capabilities:

- Signal conditioning
- EMI suppression
- Circuit protection
- Temperature sensing
- Application-specific electronics

Engineering & prototyping support

LEMO supports OEMs from concept development through production, integrating electronic components into connector and cable assembly solutions tailored to specific application requirements.

Key capabilities

- Connector customization
- PCB integration
- Rapid prototyping
- Cable assembly development
- Design validation support
- Scalable manufacturing



Cables engineered for medical excellence

Custom medical-grade cables designed for flexibility, biocompatibility, sterilisation resistance, and signal integrity. BioCompatic® – A high-performance USP Class VI

- **Patient-friendly & biocompatible:** Free of bisphenol, phthalate, latex, and halogen
- **Durable & chemical-resistant:** Withstands chemicals, cuts, crush, and abrasion
- **Sterilization ready:** Endures steam autoclave (500 cycles at 134°C), Gamma, EtO, and STERRAD™
- **Extreme temperature resistance:** Operates from -80°C to +105°C
- **Medical-grade compliant:** USP Class VI, ISO 10993-5:2009, ISO 10993-10:2021, RoHS3
- **Highly flexible:** Designed to bend, torque, and retract repeatedly
- **Faster lead times:** No curing needed, enabling quicker time to market



Cable assemblies you can trust

Comprehensive cable assembly capabilities from design to production, we deliver plug-and-play assemblies that ensure seamless integration and reliability.

- **Full-Service offering:** Pre-assembled cable and connector sets tailored to your application, tested and ready for integration.
- **Custom solutions:** Expert in complex cable harnesses, assemblies, and thermoplastic overmolding.
- **Private labeling:** Tailored branding for sensitive projects.
- **Certified quality:** IPC-620, ISO 9001, ISO 13485, and more.
- **Sustainability:** Eco-conscious manufacturing aligned with strict industry standards.
- **End-to-end support:** From design to delivery, with timely and reliable service. Single point of contact: One trusted partner from connector and cable selection to final cable assembly delivery.
- **Global support:** Available worldwide through LEMO's international network, with local support and logistics.
- **Design & engineering support:** Technical drawings, system-level expertise.
- **Extensively tested:** Each assembly undergoes thorough electrical, mechanical, and visual testing to guarantee performance and safety.



Product safety notice & Disclaimers

**PLEASE READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY AND CONSULT ALL RELEVANT NATIONAL AND INTERNATIONAL SAFETY REGULATIONS FOR YOUR APPLICATION.
IMPROPER HANDLING, CABLE ASSEMBLY, OR WRONG USE OF CONNECTORS CAN RESULT IN HAZARDOUS SITUATIONS.**

1. SHOCK AND FIRE HAZARD

Incorrect wiring, the use of damaged components, presence of foreign objects (such as metal debris), and / or residue (such as cleaning fluids), can result in short circuits, overheating, and / or risk of electric shock.
Mated components should never be disconnected while live as this may result in an exposed electric arc and local overheating, resulting in possible damage to components.

2. HANDLING

Connectors and their components should be visually inspected for damage prior to installation and assembly. Suspect components should be rejected or returned to the factory for verification.
Connector assembly and installation should only be carried out by properly trained personnel. Proper tools must be used during installation and / or assembly in order to obtain safe and reliable performance.

3. USE

Connectors with exposed contacts should never be live (or on the current supply side of a circuit). Under general conditions voltages above 30 VAC and 42 VDC are considered hazardous and proper measures should be taken to eliminate all risk of transmission of such voltages to any exposed metal part of the connector.

4. TEST AND OPERATING VOLTAGES

The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage; reference values are indicated in the catalogue however these may be influenced by PCB board design and / or wiring harnesses.
The test voltage indicated in the catalogue is 75% of the mean breakdown voltage; the test is applied at 500 V/s and the test duration is 1 minute.

5. CE MARKING

CE marking  means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives. CE marking  applies to complete products or equipment, **but not to electromechanical components, such as connectors.**

6. PRODUCT IMPROVEMENTS

The LEMO Group reserves the right to modify and improve to our products or specifications without providing prior notification.

7. WARNING (Prop 65 State of California)

Proposition 65 requires businesses to provide warnings to Californians about significant exposures to chemicals that cause cancer, birth defects or other reproductive harm. LEMO products are exempt from proposition 65 warnings because they are manufactured, marketed, and sold solely for commercial and industrial use.
For further information, please visit: <https://web.lemo.com/img/resources/quality/LEMO-Prop-65-compliance-declaration.pdf>

8. UL RECOGNITION

LEMO connectors are components recognized by the Underwriters Laboratories (UL), facilitating the UL approval of the complete system (including LEMO connector, cable and your equipment).

9. REACH AND ROHS

LEMO connector specifications comply with the requirements of the RoHS directive (2011/65/EU) and REACH regulation (1907/2006/EU) of the European Parliament and latest amendments. These REACH and ROHS regulations specify the restrictions of the use of hazardous substances in LEMO products marketed in Europe.

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