

[Standard](#)

*Image for illustrative purpose only*

## Summary

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|                                    |                                                                |
|------------------------------------|----------------------------------------------------------------|
| Number of contacts Low Voltage     | 10                                                             |
| Wire Size/AWG                      | 34 - 28                                                        |
| Gender                             | Standard                                                       |
| Plug                               | Plug - Straight                                                |
| Locking system                     | Push-pull                                                      |
| Jacket cable outside diameter [mm] | 2.70 - 3.90 mm                                                 |
| Size                               | 1P                                                             |
| Suggested matching part            | <a href="#">PLA.M1.0GL.LG</a><br><a href="#">PYA.M1.0GL.LG</a> |
| Series                             | REDEL P - Push-Pull                                            |

[https://www.lemo.com/int\\_en/solutions/redel/redel-p-push-pull/paa-m1-0gl-ac39g.html](https://www.lemo.com/int_en/solutions/redel/redel-p-push-pull/paa-m1-0gl-ac39g.html)

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# Technical details

## Electrical Configuration

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Number of contacts Low Voltage          | 10                            |
| Contact Termination Low voltage         | Solder                        |
| R (max) - electrical contact resistance | 8.5 mOhm                      |
| Insert configuration value              | 1P.M10 - 10 Low Voltage       |
| Insulator                               | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                           | 3 A                           |
| Test voltage contact-contact            | 1.2 (kV DC)                   |
| Max. Solid Conductor                    | 0.09 mm <sup>2</sup> (AWG 28) |
| Max. Stranded Conductor                 | 0.09 mm <sup>2</sup> (AWG 28) |
| Air clearance                           | 0.55 mm                       |
| Creepage distance                       | 0.55 mm                       |
| Bucket Dia.                             | 0.45 mm (0.018 in)            |
| Contact Dia.                            | 0.5 mm (0.0197 in)            |
| Wire Size/AWG                           | 34 - 28                       |
| Gender                                  | Standard                      |

## Form & Material

|                        |                                                                        |
|------------------------|------------------------------------------------------------------------|
| Shell style / Model id | PA - Straight plug with cable collet                                   |
| Plug                   | Straight                                                               |
| Housing material       | PSU (Polysulfone), grey                                                |
| Locking system         | Push-pull                                                              |
| Keying                 | A: 2 keys (alpha=40, Plug: male contacts, Receptacle: female contacts) |
| Colour                 | Grey                                                                   |
| Variant                | Grey collet nut                                                        |
| Weight                 | 4.61 g                                                                 |

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## Environment

|                                   |                                                                                                                                                                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical domain                  | Energy and Industrial, Medical, Test and Measurement, Transportation, Aerospace and UAV                                                                                                                                        |
| Environmental sealing (IP rating) | IP50                                                                                                                                                                                                                           |
| Endurance                         | > 5000 mating cycles                                                                                                                                                                                                           |
| Temperature range                 | -50°C / +150°C                                                                                                                                                                                                                 |
| F ret (max)                       | 150 N                                                                                                                                                                                                                          |
| F ret (min)                       | 50 N                                                                                                                                                                                                                           |
| Steam sterilization               | Compiles with ISO 17665:2024 sterilization standard for autoclave, ISO 11135:2014 for EtO, and ISO 11137-1, -2, -3 standards for gamma, e-beam x-ray. For more details on sterilization methods and cycles, please contact us. |

## Cable fixation

|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Cable termination protection       | Standard back nut (no additional protection) |
| Fixation type                      | Cable collet                                 |
| Jacket cable outside diameter [mm] | 2.70 - 3.90 mm                               |

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