

Standard



*Image for illustrative purpose only*

## Summary

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|                                    |                                  |
|------------------------------------|----------------------------------|
| Number of contacts Low Voltage     | 6                                |
| Wire Size/AWG                      | 32 - 24                          |
| Gender                             | Standard                         |
| Socket / Receptacle                | Socket / Receptacle - Free       |
| Locking system                     | Push-pull                        |
| Jacket cable outside diameter [mm] | 4.00 - 5.20 mm                   |
| Size                               | 1P                               |
| Suggested matching part            | <a href="#">PAG.M0.6NL.AC52N</a> |
| Series                             | REDEL P - Push-Pull              |

[https://www.lemo.com/int\\_en/solutions/redel/redel-p-push-pull/prg-m0-6nl-lc52n.html](https://www.lemo.com/int_en/solutions/redel/redel-p-push-pull/prg-m0-6nl-lc52n.html)

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# Technical details

## Electrical Configuration

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Number of contacts Low Voltage          | 6                             |
| Contact Termination Low voltage         | Solder                        |
| R (max) - electrical contact resistance | 6.5 mOhm                      |
| Insert configuration value              | 1P.M06 - 6 Low Voltage        |
| Insulator                               | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                           | 6 A                           |
| Test voltage contact-contact            | 1.48 (kV DC)                  |
| Max. Solid Conductor                    | 0.25 mm <sup>2</sup> (AWG 24) |
| Max. Stranded Conductor                 | 0.14 mm <sup>2</sup> (AWG 26) |
| Air clearance                           | 0.85 mm                       |
| Creepage distance                       | 0.85 mm                       |
| Bucket Dia.                             | 0.6 mm (0.024 in)             |
| Contact Dia.                            | 0.7 mm (0.028 in)             |
| Wire Size/AWG                           | 32 - 24                       |
| Gender                                  | Standard                      |

## Form & Material

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| Shell style / Model id | PR - Free receptacle with cable collet                               |
| Socket / Receptacle    | Free                                                                 |
| Housing material       | PSU (Polysulfone), black                                             |
| Locking system         | Push-pull                                                            |
| Keying                 | G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts) |
| Colour                 | Black                                                                |
| Variant                | Black collet nut                                                     |
| Weight                 | 4.5 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] | 4.00 - 5.20 mm                               |

# Recommended By Lemo

## Tools

|         |                               |
|---------|-------------------------------|
| Spanner | <a href="#">DCP.91.001.TN</a> |
|---------|-------------------------------|

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# Cables

| Cable PartNumber   | Material      | Colour | Cable image                                                                         |
|--------------------|---------------|--------|-------------------------------------------------------------------------------------|
| CMN.06.T28.042QBCE | TPR (medical) |        |                                                                                     |
| CMN.06.T28.044PGZE |               | grey   |  |
| CMN.06.T28.044PNZE |               |        |  |
| 106240             | PTFE          | White  |  |
| 160140             | PVC           | Grey   |  |
| 160260             | PVC           | Black  |  |
| 60260              | PTFE          | White  |  |
| 6280               | PVC           | Black  |  |

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