



*Image for illustrative purpose only*

## Summary

[Request a quote](#)

[Catalog](#)

|                                    |                                |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage     | 4                              |
| Protocol                           | USB 2.0 (480Mb/s)              |
| Wire Size/AWG                      | 30 - 22                        |
| Gender                             | Standard                       |
| Plug                               | Plug - Straight                |
| Locking system                     | Threaded                       |
| Jacket cable outside diameter [mm] | 8.10 - 8.50 mm                 |
| Size                               | 1W                             |
| Suggested matching part            | <a href="#">EVG.1W.304.CLL</a> |
| Series                             | W - Underwater                 |

[https://www.lemo.com/int\\_en/solutions/supreme/w-underwater/fvg-1w-304-clak85.html](https://www.lemo.com/int_en/solutions/supreme/w-underwater/fvg-1w-304-clak85.html)

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. The user is fully responsible for his products and applications using LEMO components.

# Technical details

## Electrical Configuration

|                                 |                               |
|---------------------------------|-------------------------------|
| Number of contacts Low Voltage  | 4                             |
| Contact Termination Low voltage | Solder                        |
| R (max)                         | 4.8 mOhm                      |
| Insert configuration value      | 1W.304 - 4 Low Voltage        |
| Rated current                   | 10 A                          |
| Vtest (contact-contact)         | 1350 V (AC) 1900 V (DC)       |
| Vtest (contact-shell)           | 1450 V (AC) 2100 V (DC)       |
| Max. Solid Conductor            | 0.34 mm <sup>2</sup> (AWG 22) |
| Max. Stranded Conductor         | 0.34 mm <sup>2</sup> (AWG 22) |
| Bucket Dia.                     | 0.8 mm (0.031in)              |
| Contact Dia.                    | 0.9 mm (0.035in)              |
| Protocol                        | USB 2.0 (480Mb/s)             |
| Wire Size/AWG                   | 30 - 22                       |
| Gender                          | Standard                      |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | FV_/K - Straight plug, oversize cable collet  |
| Plug                   | Straight  |
| Housing material       | Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces |
| Locking system         | Threaded  |
| Keying                 | G: 1 key (alpha=0, Plug: male contacts, Receptacle: female contacts)  |
| Colour                 | Grey  |
| Weight                 | 42.18 g   |

[https://www.lemo.com/int\\_en/solutions/supreme/w-underwater/fvg-1w-304-clak85.html](https://www.lemo.com/int_en/solutions/supreme/w-underwater/fvg-1w-304-clak85.html)

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. The user is fully responsible for his products and applications using LEMO components.

## Environment

|                                   |   |
|-----------------------------------|---|
| Technical domain                  | Specialties and Other   |
| Environmental sealing (IP rating) | IP68  |
| Endurance                         | 1000 mating cycles  |
| Temperature range                 | -20°C / +200°C (max. temperature valid for short periods of use.) |
| Climatical Category               | 20/200/21   |
| Humidity (max)                    | <=95% [at 60 deg C /140 F]  |
| Shielding (min)                   | 95 dB (10 MHz)  |
| Shielding (min)                   | 80 dB (1 GHz)   |
| Pressure                          | 30 bars   |
| Salt Spray Corrosion              | >1000 hr  |

## Cable fixation

|                                    |  |
|------------------------------------|--|
| Cable termination protection       | Standard back nut (no additional protection) |
| Fixation type                      | Cable collet                                 |
| Jacket cable outside diameter [mm] | 8.10 - 8.50 mm                               |

# Recommended By Lemo

## Accessories

|                |                                |
|----------------|--------------------------------|
| Compatible cap | <a href="#">BFG.1W.100.NAZ</a> |
|----------------|--------------------------------|

[https://www.lemo.com/int\\_en/solutions/supreme/w-underwater/fvg-1w-304-clak85.html](https://www.lemo.com/int_en/solutions/supreme/w-underwater/fvg-1w-304-clak85.html)

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. The user is fully responsible for his products and applications using LEMO components.