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## Summary

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[f series](#)

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|                                    |                                                                  |
|------------------------------------|------------------------------------------------------------------|
| Number of contacts Low Voltage     | 4                                                                |
| Wire Size/AWG                      | 26 - 22                                                          |
| Gender                             | Reverse Gender                                                   |
| Plug                               | Plug - Straight                                                  |
| Locking system                     | Push-pull                                                        |
| Jacket cable outside diameter [mm] | 3.80 - 9.00 mm                                                   |
| Size                               | 0F                                                               |
| Suggested matching part            | <a href="#">EGS.0F.304.XLC</a><br><a href="#">PES.0F.304.XLC</a> |
| Series                             | F - Rugged Push-Pull                                             |

[https://www.lemo.com/int\\_en/solutions/optima/f-rugged-push-pull/fgs-0f-304-xlm.html](https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/fgs-0f-304-xlm.html)

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# Technical details

## Electrical Configuration

|                                 |                               |
|---------------------------------|-------------------------------|
| Number of contacts Low Voltage  | 4                             |
| Contact Termination Low voltage | Crimp                         |
| R (max)                         | 6.1 mOhm                      |
| Insert configuration value      | 0F.304 - 4 Low Voltage        |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                   | 7 A                           |
| Vtest (contact-contact)         | 1350 V (AC), 1910 V (DC)      |
| Vtest (contact-shell)           | 1100 V (AC), 1560 V (DC)      |
| Contact retention               | 22 N                          |
| Max. Conductor                  | 0.34 mm <sup>2</sup> (AWG 22) |
| Min. Conductor                  | 0.14 mm <sup>2</sup> (AWG 26) |
| Bucket Dia.                     | 0.8 mm (0.031in)              |
| Contact Dia.                    | 0.7 mm (0.028in)              |
| Wire Size/AWG                   | 26 - 22                       |
| Gender                          | Reverse Gender                |

## Form & Material

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Shell style / Model id | FG - Straight plug                                                                                      |
| Plug                   | Straight                                                                                                |
| Housing material       | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass |
| Locking system         | Push-pull                                                                                               |
| Keying                 | 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)                           |
| Colour                 | Grey                                                                                                    |
| Weight                 | 6.42 g                                                                                                  |

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## Environment

|                                   |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| Technical domain                  | Motorsport, Security and Defence                                  |
| Environmental sealing (IP rating) | IP67                                                              |
| Endurance                         | 1000 mating cycles                                                |
| Temperature range                 | -15°C / +200°C (max. temperature valid for short periods of use.) |
| Climatic Category                 | 15/200/21 (Aluminium shell)                                       |
| Humidity (max)                    | <=95% [at 60 deg C /140 F]                                        |
| Shock Resistance                  | 100 g [ 6 ms]                                                     |
| Vibration                         | 15 g [10 Hz - 2000 Hz]                                            |
| Salt Spray Corrosion              | max. 48 hr                                                        |

## Cable fixation

|                                    |                |
|------------------------------------|----------------|
| Cable termination protection       | Heatshrink     |
| Fixation type                      | Heatshrink     |
| Jacket cable outside diameter [mm] | 3.80 - 9.00 mm |

# Recommended By Lemo

## Accessories

|                     |                                |
|---------------------|--------------------------------|
| Replacement contact | <a href="#">EGG.0B.655.ZZM</a> |
| Compatible cap      | <a href="#">BFG.0F.100.XAZ</a> |

## Tools

|                 |                                |
|-----------------|--------------------------------|
| Positionner     | <a href="#">DCE.91.070.BVM</a> |
| Extraction tool | <a href="#">DCF.93.070.4LT</a> |
| Crimp tool      | <a href="#">DPC.91.701.V</a>   |

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# Cables

| Cable PartNumber   | Material      | Colour | Cable image                                                                           |
|--------------------|---------------|--------|---------------------------------------------------------------------------------------|
| CMN.04.T22.047QGC  | TPR           | Grey   |                                                                                       |
| CMN.04.T22.048QGZE | TPR (medical) | Grey   |    |
| 140240             | PVC           | Black  |    |
| 140250             | PVC           | Grey   |    |
| 40140              | PVC           | Black  |    |
| 40260              | PVC           | Black  |    |
| 4080               | PVC           | Grey   |                                                                                       |
| 417920             | PVC           | Grey   |    |
| 4220               | PVC           | Black  |    |
| 4221               | PVC           | Black  |   |
| 4280               | PVC           | Black  |  |
| 80080              | PVC           | Grey   |                                                                                       |
| 80082              | PVC           | Red    |                                                                                       |
| 80084              | PVC           | Black  |                                                                                       |
| CTR.75.030.121870G | PVC           | Grey   |  |

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