THE RELIABLE EXPERT
DEFENSE & SECURITY CONNECTIVITY SOLUTIONS
DESIGNING AND MANUFACTURING MILITARY CONNECTORS AND CABLE ASSEMBLY SOLUTIONS FOR MORE THAN 60 YEARS
MISSION-CRITICAL INTERCONNECT SOLUTIONS TO PROTECT YOUR DEVICES — AND THE PEOPLE WHO DEPEND ON THEM

At Fischer Connectors, we know the functionality of your products can be a matter of life and death for the soldiers who rely on them. That's why we're not just a supplier of interconnect solutions, we're a partner in your effort to keep people, systems and data safe.

With more than 60 years of experience designing and manufacturing connectors and cable assembly solutions for military applications, we provide customizable solutions which are renowned for their reliability, durability and performance.

Whether for the sea, the air or the battlefield, Fischer Connectors will help you deliver durable, reliable and lightweight military equipment that protects what matters most.
DISMOUNTED SOLDIER SOLUTIONS

CUTTING-EDGE WEARABLE CONNECTIVITY FOR EVERY MISSION

Lightweight integrated solutions with maximum usability for the soldiers of tomorrow

- Easy subsystem integration
- Fast setup
- Customizable
- Multiple mission configurations
- Fully cleanable

Check out the video online: military.fischerconnectors.com/#dismounted-soldier

KEY INTERCONNECT FEATURES

- C4ISTAR
- MIL&IEC
- TESTED
- MATING CYCLES 10,000
- IP68
- ULTRAFAST DATA TRANSFER
- COMPACT & LIGHTWEIGHT
- ACTIVE SOLUTIONS
- RUGGED
- SEALED
COMMUNICATION & DATA MANAGEMENT
Radio & batteries, headsets, GPS, cameras, computers & displays

TARGET ACQUISITION & WEAPON SYSTEMS
IR scopes, lights, lasers

HEALTH MONITORING & ON-BODY ROBOTICS
Exoskeletons, body sensors

POWER SUPPLY SYSTEMS
Li-Ion battery bags

MAXIMIZE

USABILITY
Push-pull or quick-release locking and 360° blind mating for easy setup and use

PERFORMANCE
High pin density connectors, USB 3.0 connectors and flash drives

WEARABILITY
Flexible and balanced for ease of movement during critical tasks

MINIMIZE

WEIGHT
Lightweight integration for reduced load in harsh environments

SPACE
Extremely compact and dense

PRODUCT HIGHLIGHTS*

FISCHER FREEDOM™ SERIES
Breakthrough plug & use connectivity with easy mating, easy cleaning, easy integration

FISCHER MINIMAX™ SERIES
High density, signal and power in one miniature connector

FISCHER ULTIMATE™ 80
Field-ready connectivity in harsh environment

* More solutions available with our other product lines – see last page or contact us.
MISSION-CRITICAL CONNECTIVITY, FROM BASE TO BATTLEFIELD

Ultra-rugged solutions designed to withstand the hazards of ground deployment even in the harshest environments

- High-speed & encrypted data transfer
- Easy to operate
- Customizable
- Secured data storage
- Lightweight & miniature

Check out the video online: military.fischerconnectors.com/#ground

KEY INTERCONNECT FEATURES

- TESTED MIL&IEC
- MAX MATE CYCLES 10,000
- ULTRAFAST DATA TRANSFER
- COMPACT & LIGHTWEIGHT
- USB 3.0 & 10Gb/s
MAXIMIZE
DATA TRANSMISSION INTEGRITY
EMI shielding, high-speed encrypted protocols or over fiber for faster interconnectivity

RELIABILITY
Proven range of robust, easy-to-operate battlefield solutions

MIL-SPEC COMPATIBLE, INTEGRATED CONNECTIVITY
Designed for the harshest environments

MINIMIZE
LOAD
Lightweight, miniature and high-density electrical and optical solutions

RISK & COMPLEXITY
Fully customized interconnectability and secure data storage

PRODUCT HIGHLIGHTS*

**FISCHER RUGGED FLASH DRIVE**
Safe storage & transportation of sensitive data in harsh environments

**FISCHER FIBEROPTIC SERIES**
Robust optical performance for extreme environments

**FISCHER ULTIMATE™ SERIES**
Rugged, compact and lightweight for durable reliability

* More solutions available with our other product lines – see last page or contact us.
AEROSPACE SOLUTIONS

AIRBORNE INTERCONNECTIVITY, FROM TAKEOFF TO THE CLOUDS

Rugged solutions for complex aerospace applications, ensuring safety and connectivity at every altitude

- Maximum performance, data rate & hermeticity
- High-density, lightweight materials
- Easy to operate
- Adapted to complex aerospace requirements
- Customizable

Check out the video online: military.fischerconnectors.com/#aerospace

---

KEY INTERCONNECT FEATURES

- Active Solutions
- Rugged
- Sealed
- Ultrafast Data Transfer
- Compact & Lightweight

- REACH & RoHS Compliant
- Maximum Cycles: 10,000
- IP68 & IP69
MAXIMIZE

PERFORMANCE
Resistance to shock, vibration, corrosion and extreme temperatures

DATA RATE
High-speed electrical and optical solutions for complex systems

HERMETICITY
High-performance sealing to ensure safety in critical applications and long distances

MINIMIZE

SPACE & WEIGHT
Compact, lightweight materials without compromising reliability

RISK
Adapted to complex aerospace requirements and resistant to extreme conditions

PRODUCT HIGHLIGHTS*

FISCHER MINIMAX™ SERIES
High density, signal and power in one miniature connector

FISCHER ULTIMATE™ SERIES
Rugged, compact and lightweight for durable reliability

FISCHER RUGGED FLASH DRIVE
Safe storage & transportation of sensitive data in harsh environments

* More solutions available with our other product lines – see last page or contact us.
MARINE SOLUTIONS

SEALED INTERCONNECTIVITY FOR PERFORMANCE AND SAFETY AT ANY DEPTH

Rugged interconnect solutions designed to withstand even the most challenging marine environments

- Fully sealed & water resistant
- Supports complex protocols
- High-speed, secure data transfer & storage
- Miniature & lightweight
- Customizable to a wide range of depths

Check out the video online: military.fischerconnectors.com/#marine

KEY INTERCONNECT FEATURES

- ACTIVE SOLUTIONS
- RUGGED
- SEALED
- ULTRAFAST DATA TRANSFER
- COMPACT & LIGHTWEIGHT

TESTED
- MIL&IEC
- IP68 & IP69
- CORROSION RESISTANCE 1000h
FISCHER CORE SERIES STAINLESS STEEL
Original high-performance push-pull connectors

FISCHER ULTIMATE™ SERIES
Rugged, compact and lightweight for durable reliability

FISCHER RUGGED FLASH DRIVE
Safe storage & transportation of sensitive data in harsh environments

TESTED AT -120m/24h

SHIPS & SUBMARINES
Sonar, radar & guidance, communication, sensor systems

UNMANNED SYSTEMS
Remotely operated vehicles

WEAPON SYSTEMS
Missile defense launchers & propulsion, guidance & radar

MAXIMIZE

PERFORMANCE
Customized water resistance for a wide range of depths

SMART COMMUNICATION
High-density connectivity for improved power and bandwidth

EFFICIENCY
High-speed MIL-spec compatible solutions tailored to your requirements

MINIMIZE

SPACE & WEIGHT
Wide range of materials, configurations, power connectors and cable harnesses

RISK
Proven sealing and integration even in the most challenging marine environments

PRODUCT HIGHLIGHTS*

* More solutions available with our other product lines – see last page or contact us.
## Connectors for Defense & Security

### Connectors

<table>
<thead>
<tr>
<th>Locking</th>
<th>Core</th>
<th>Ultimate</th>
<th>FIBEROPTIC</th>
<th>MINIMAX</th>
<th>FREEDOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friction</td>
<td>Friction</td>
<td></td>
<td></td>
<td>Quick-release</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shell Material</th>
<th>Brass / Aluminum</th>
<th>Brass / Aluminum</th>
<th>Brass</th>
<th>Brass</th>
<th>Brass / Plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stainless Steel 316L</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plug Ø [mm]</th>
<th>9.9 - 12.9</th>
<th>12.9</th>
<th>9.9 - 12.9</th>
<th>20.4 / 25.4</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Number of Contacts</th>
<th>1 to 55</th>
<th>2 to 42</th>
<th>1 to 4 fibers / Hybrid 2+2</th>
<th>4 to 24</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Contact Type</th>
<th>Low voltage / High voltage</th>
<th>Low voltage</th>
<th>Fiber optic / High voltage</th>
<th>Low voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test Voltage DC [kV]</th>
<th>Up to 50</th>
<th>Up to 3.7</th>
<th>Up to 2.8</th>
<th>Up to 2.4</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Current Rating [A]</th>
<th>Up to 60</th>
<th>Up to 26</th>
<th>Up to 10</th>
<th>Up to 10</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Sealing Level</th>
<th>IP68 / 69 / Hermetic</th>
<th>IP68 / 69 / Hermetic</th>
<th>IP67 / IP68</th>
<th>IP68</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Mating Cycles</th>
<th>10,000</th>
<th>10,000</th>
<th>1,000</th>
<th>5,000</th>
</tr>
</thead>
</table>

- OHSAS 18001
- ISO 14001
- ISO 9001
- Nuclear
- REACH
- ROHS
- SONY
- ECO

**HEADQUARTERS**
Chemin du Glapin 20
1162 Saint-Prex - Switzerland
fischerconnectors.com

© Fischer Connectors SA – All rights reserved – 550152 – Version 1.4 – 08.2019 – Changes without prior notice

[Check out our Defense & Security Solutions video](#)