



# UNMANNED AERIAL VEHICLES CONNECTIVITY SOLUTIONS

**MINIATURE  
LIGHT  
RUGGED**

Power supply and fast data transmission

Dust & water sealing up to IP68/69

360° EMC shielding



**Smaller, lighter and secure:** these are the keywords in robotics and unmanned applications, such as UAVs and ROVs, relying on connectivity solutions that combine miniaturization with ruggedness for high performance to carry out tasks more safely and efficiently than people in the toughest environments.

Compact and ultra-resistant, Fischer Connectors' product lines for robotic devices include sealed, hermetic solutions and high-density hybrid connectors that combine signal and power for fast data transfer. Our solutions offer high shock and vibration resistance, and can operate at temperatures from -55°C to 135°C.



REIMAGINING CONNECTIVITY  
TOGETHER

**fischer**<sup>®</sup>  
CONNECTORS

# UNMANNED AERIAL VEHICLES

Ideal for unmanned aerial vehicles, the Fischer MiniMax™ Series and Fischer UltiMate™ Series offer a wide range of ultra-rugged, compact, lightweight and high-density products:



## FISCHER ULTIMATE™ SERIES



- High resistance to shock and vibration and suitable for high-end cable assemblies
- 2-42 signal & power contacts



Hexadrone SAS, a French company specializing in the mechatronic development of solutions linked to the use of civil and military drones, equips its multi-functional, modular drone called Tundra with a Fischer UltiMate™ USB 2.0 connector that is waterproof, reliable in all conditions and suitable for intensive use in the field.

- Salt-mist resistance 1000 hours
- IP68/IP69 2m/24h even unmated



## FISCHER MINIMAX™ SERIES



- Multiple combination of protocols possible: up to USB 3.2 Gen 1, Ethernet 10 Gbit/s, HDMI 1.4 and Single Pair Ethernet 1 Gbit/s
- Ultra-miniature: up to 24 signal & power contacts in just Ø12 mm



YellowScan, a French company designing and manufacturing UAV LiDAR solutions, uses three Fischer MiniMax™ connectors on its 'Mapper' that can be quickly mounted on any UAV.

- IP68 2m/24h and  $<10^{-6}$  mbar/sec gas sealing, salt-mist resistance 1000 hours
- Three locking systems: push-pull, screw, quick-release

**CONTACT YOUR LOCAL FISCHER CONNECTORS SUBSIDIARY**



For more information visit  
[fischerconnectors.com/robotics-unmanned-vehicles](https://fischerconnectors.com/robotics-unmanned-vehicles)

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