

Compact and IP68-sealed, the new plug-and-play Fischer KEYSTONE™ 4 power and data hub empowers soldier mission

Eurosatory, Paris, France | Fischer Connectors stand FG268, Hall 6 | June 17-21, 2024 – Fischer Connectors, the Swiss-based global leader in high-performance connectivity solutions, showcases on Eurosatory stand FG28 (hall 6) its new Fischer KEYSTONE™ 4, a small, versatile, plug-and-play tactical hub for reliable power distribution, seamless connectivity, and high adaptability to every operational challenge on the battlefield.

The new Fischer KEYSTONE™ 4-port power and data hub offers an unmatched combination of compactness, ruggedness and performance in the soldier hub marketplace, enhancing in particular the mission of fast-moving special operation forces and small-squad team leaders.

The housing of KEYSTONE 4 is 69.2 mm long, 38 mm wide, 17 mm thick, weighs 125 g, and is sealed, along with its connectors and cable assemblies, to IP68 for -2m/24. Other environmental MIL-STD-810G features include operating temperature from -32 °C to +55 °C, operating altitude up to +9,754 m, and resistance to shock of 40 G / 11 ms, to vibration of 7.7 Grms / 1 h per axis, and to weather conditions such as solar radiation, salt, sand and dust, rain and water, and fungus.

In compliance with standard MIL-STD-461G, the Fischer KEYSTONE™ 4 effectively reduces emissions and detection risks. With minimal thermal and EMI/EMC signatures, optimized circuitry and a fully shielded enclosure, it ensures operational discretion in the most demanding environments.

Olivier Thormann, Product Manager for Fischer KEYSTONE, explains how the new 4-port hub helps “minimize the physical and cognitive burden on soldiers: tiny and lightweight, the hub is easy to mount on the MOLLE system with a removable clip, and connects easily and reliably to the wearable devices soldiers need on the battlefield. KEYSTONE 4 is extremely easy to use and requires no training.”

With two PAN ports, one EUD HOST port and one RADIO BATT port, the hub efficiently distributes power (100 W total, 5 A under 20 V DC) while seamlessly transferring data (USB 2.0) from tactical devices, adapting to different operational configurations.

Pointing to the typical use case of the hub interconnecting a single battery with the EUD, a target locator, and a mesh radio with PTT headset, Olivier Thorman reports rapid adoption of KEYSTONE 4 by soldiers: “The feedback we get from the field is always the same, underlining the simplicity and ultra-reliability of the tactical solution. Soldiers adopt KEYSTONE 4 as soon as they test it. They clip it on, plug it in, and it just works.”

Intermateable with Nett Warrior and NATO STANAG 4695/4851 interfaces, the Fischer KEYSTONE™ Tactical Hub series ensures seamless integration with existing systems, enhancing warfighter situational awareness and contributing to overall operational efficiency within the Battlefield Management System (BMS) framework.

Fischer KEYSTONE 4 is a product extension of Fischer Connectors' tactical hub series launched on March 29, 2023 with Fischer KEYSTONE 6, a 6-port tactical hub featuring a power management app and an ATAK plug-in. Both KEYSTONE 6 and 4 benefit from a versatile suite of cable assemblies including extensions, adaptors, as well as assemblies interconnecting EUD, radios, and a variety of other devices (October 25, 2023).

- **Full technical specifications** in [Fischer KEYSTONE™ Tactical Connectivity Solution](#)

Fischer Connectors will be joined by **Wearin'**, also part of the Conexivity Group. Wearin' will showcase its **intelligent IoT platform**, known for its complete modularity and the ability to serve as a technology integration service, enhancing the safety and efficiency of field personnel.

They will host on stand FG28 (hall 6) the **Gendarmerie Nationale** to demonstrate the **Wearin' x DGGN smart tactical vest**. The new tactical IoT solution, which attaches to pre-installed body armor, ensures redundant safety and connectivity through a state-of-the-art AI-enhanced warning device that is independent of current radio systems. Called the Wearin' Brain, this ruggedized device is triggered either manually by an SOS button, or automatically when it detects an abnormal situation such as loss of verticality, piercing of the body armor cover after a stab wound, or a bullet impact. In the event of a warning, the device also transmits the geolocation of personnel.

Wearin's partnership with **Airbus Defence and Space** and **ACMOSS** (Agence des communications mobiles opérationnelles de sécurité et de secours) will be showcased on AIRBUS stand ExtPe6a-D243 (helicopters zones), and its partnership with **Paul Boyé Technologies** on stand H261 / hall 5a.

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Fischer Connectors' **press release** and **HD images** (© Conextivity Group 2024) can be downloaded in the press kit [here \(Dropbox\)](#).



Fischer KEYSTONE™ 4 is designed for soldiers who need power and data connections for a wide range of critical missions.



The Fischer KEYSTONE™ 4 Tactical Hub comes with removable MOLLE clips.



Soldier with Fischer KEYSTONE™ 6 tactical hub: 6 ports and power management app as a standalone app and /or as a plug-in for the Android Team Awareness Kit (ATAK).



The prototype connected tactical vest co-developed by Wearin' and the DGGN offers optimal ergonomics and physical-and-digital integration of the warning-and-communication devices worn by gendarmes (police officers belonging to the French armed forces).

Fischer Connectors and Wearin' are part of Conextivity Group.

Founded in 1954, **Fischer Connectors** produces solutions for ecosystems requiring local transfer and management of data, signals and power. Its electronic solutions, connectors and cable assemblies are trusted globally for their reliability, durability and precision in demanding environments. Fischer Connectors' solutions address the Connectivity Challenge confronting defense and security providers, i.e., more data, higher speeds, greater power and more portability in harsh environments.

Founded in 2019 by the Fischer family's 3rd generation, **Wearin'** creates IoT wearable solutions that enhance safety and efficiency by improving situational awareness and enabling a better coordination of connected humans including lone workers, security personnel, firefighters and first responders. It makes high-risk work environments safer and smarter with real-time insights from user-generated field data.

Conextivity Group is a global technology group offering high-performance connectivity solutions that manage power and data flows seamlessly from sensors and devices to the cloud and AI, enabling the emergence of new transverse and scalable ecosystems. With nearly 700 people worldwide, one Group R&D center located in Switzerland and supported by regional hubs, and six manufacturing sites, the Swiss-headquartered group is a full-service connectivity partner comprising two business activities: Fischer Connectors and Wearin'. Wearin' creates IoT wearable solutions that enhance safety and efficiency by improving situational awareness and coordination of connected humans including lone workers, firefighters and first responders.

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