Fischer Rugged Flash Drive

Connect^2

Expertise | Reliability | Innovation

Secure Data Drive

Safe storage of sensitive data in harsh environments

www.fischerconnectors.com

fischer ®
CONNECTORS

FISCHER RUGGED FLASH DRIVE
KEY FEATURES

SAFE STORAGE

- IP68 sealed even unmated
- Extreme temperature resistant
- Shock and vibration resistant

SECURE ACCESS

- Unique circular connector interface
- High speed USB 2.0 signaling & protocol certified
- Standard up to 64 GB capacity

PORTABLE

- Miniature unbreakable design
- Built-in hanger support
- Lightweight (45g)

MODULAR DESIGN

- Large selection of body styles, sizes and contact configurations
- Compatible with Fischer UltiMate™ Series
- Custom configurations possible

CERTIFICATION &
COMPLIANCE

Fischer Connectors is committed to quality throughout every phase of its operations. The company supports its customers and applies within its organization all directives and norms improving the quality, safety and environmental friendliness of its connectors, processes and systems.

MIL-SPECS: Based on our Fischer Ultimate™ Series, the Fischer Rugged Flash Drive is engineered to withstand extreme operational environments, such as vibration, shock, rain, humidity, salt fog, sand/dust, or large temperature variations; our military connectors are tested according to IEC standards.

Fischer Connectors is **EN ISO 13485:2012** certified and meets the quality management systems requirements for the design and manufacture of medical devices.

Our company is **ISO 9001:2008** certified. Through longstanding quality management commitment, we target excellence.

Fischer Connectors' environmental management system is **ISO 14001:2004** certified. Our company is committed to efficiently managing its waste, to preventing contamination and to reducing the environmental impact.

All connectors from Fischer Connectors are **RoHS** and **REACH** compliant.
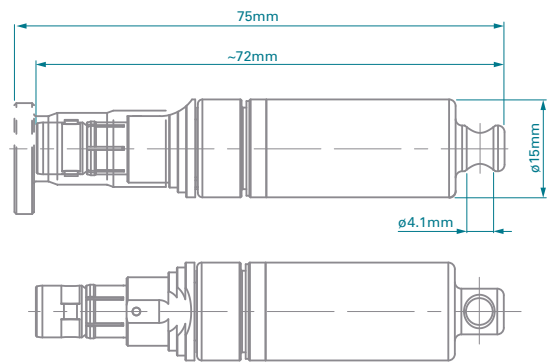
ISO 9001   **ISO 13485**   **ISO 14001**   (R◇HS compliant)   (REACH)

fischer CONNECTORS®

TECHNICAL
DIMENSIONS

75mm
~72mm
ø15mm
ø4.1mm

Standard Fischer Rugged Flash Drive connector interface:

Fischer UltiMate™ Series UP01 in size 08.

Available with Push-Pull (L) or Quick-Release (Q) latching system.

	PANEL LOW PROFILE REAR-MOUNTED	PANEL REAR-MOUNTED		SHORT CABLE RECEPTACLE (UR50) WITH USB PLUG
RECEPTACLES	**UR01**	**UR02**	**USB ADAPTOR**	

Standard Fischer Rugged Flash Drive receptacle:
Fischer UltiMate™ Series UR01 or UR02 in size 08.

Adaptor for connecting the Fischer Rugged Flash Drive to your computer.

No additional software is needed.

TECHNICAL
DATA

CONTACT CONFIGURATIONS

Pin	Name	Description
1	D-	Data-
2*	VCC	+5V
3*	GND	Ground
4	D+	Data+

Standard Fischer Rugged Flash Drive configuration:
4 contacts, standard polarity.

* First mate last break contacts.

PART NUMBERING

Capacity	Push-Pull latching	Quick-Release latching
4 GB	FD USB2-004 UP01L08 M004 BK1	FD USB2-004 UP01Q08 M004 BK1
8 GB	FD USB2-008 UP01L08 M004 BK1	FD USB2-008 UP01Q08 M004 BK1
16 GB	FD USB2-016 UP01L08 M004 BK1	FD USB2-016 UP01Q08 M004 BK1
32 GB	FD USB2-032 UP01L08 M004 BK1	FD USB2-032 UP01Q08 M004 BK1
64 GB	FD USB2-064 UP01L08 M004 BK1	FD USB2-064 UP01Q08 M004 BK1

For larger storage, please contact us.

Connect² Expertise | Reliability | Innovation

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TECHNICAL
DATA

USB PROPERTIES

Characteristic	Value
Capacity	Standard: 4, 8, 16, 32 and 64 GB[1]
Specification	Hi-Speed USB 2.0 (with USB 1.1) signaling and protocol
Minimum Data Transfer Speed[2]	Sequential Read: 20MB/s - Sequential Write: 4MB/s (4,8GB), 6MB/s(16, 32GB), 8MB/s (64GB)
System Requirements	Windows® 7, Vista, XP, 2000 / Linux / Mac® OS X 10.0 and higher

1) Flexible modular design: please contact us for other USB memory capacity.

2) Minimum measurement tested with FD Bench v1.01 running Windows 2000.

ENVIRONMENTAL & MECHANICAL DATA

Characteristic	Value	Standard
Sealing Performance Mated and Unmated	IP68: 120 m submersion for 24 hours IP69 [3]	IEC 60529
Operating Temperature Range	-40°C to +85°C	IEC 60512-6-1 IEC 60068-2-14-Nb
Corrosion Resistance	Salt mist, 500 hours [4], 5% salt solution, 35°C	IEC 60068-2-11 Test Ka MIL-STD-202 Method 101 Condition A
Endurance	10, 000 mating cycles	IEC 60512-5-1
Vibration	10 to 2 000 Hz, 1.5 mm or 15 g, 12 sweep cycles per axis, 20 minutes per 10-2000-10 Hz sweep cycle, no discontinuity > 1 µs [5]	MIL-STD-202 Method 204 – Condition B
Shock	26 x 1.5 m drops	MIL-STD-810 Method 516 procedure IV (Transit Drop)
Mating / Unmating Force	Mating typ. 20 N Unmating typ. 15 N	IEC 60512-13 -1

3) Dust tight, protected against the effects of the high-pressure liquids.

4) Preserved mechanical and electrical functionalities.

5) Push-Pull Latching version only.

ELECTRICAL DATA

Characteristic	Typical Values	Standard
EMI Performance	Compliant with CE 102 and RE 102 requirements	MIL-STD-461F
Voltage Dips and Interruption	V70% for 3 ms V40% for 1 ms V0% for 300 µs	IEC 61000-4-29:2000
ESD Protection	Directly conducted ±8 kV Air conducted ±15 kV	IEC 61000-4-2:2008

MATERIAL & SURFACE TREATMENTS

Metal Parts	Material		Finish	
	Designation ISO	Standard	Designation	Standard
Connector Housing	Brass CuZn39Pb3	CW614N UNS C 38500	Anthracite Nickel	SAE-AMS-QQ-N-290B SAE-AMS 2404 G
Casing Housing	Brass CuZn39Pb3	CW614N UNS C 38500	Anthracite Nickel	SAE-AMS-QQ-N-290B SAE-AMS 2404 G
Contacts	Brass CuZn39Pb3	CW614N UNS C 38500	1 µm Gold over Nickel	MIL-DTL-45204D Type I ASTM B488

	International Symbol	Flammability
Insulator	PBT	UL 94 BV-0
Soft cap	TPV (Santoprene™)	UL 94 HB

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SAFE & SECURE STORAGE
FOR HARSH ENVIRONMENTS

The Fischer Rugged Flash Drive is an extremely tough memory stick, specially designed for safe storage and transportation of sensitive data in harsh environments. The memory module is mounted within a rugged casing designed to provide full protection against extreme environmental conditions.

The unique Fischer Connectors circular interface, combined with durable encapsulation technique, guarantees data security in case of loss or theft. The Fischer Rugged Flash Drive is equipped with high speed flash memory, signaling and protocol certified, and is available from 4 GB to 64 GB as standard.

Miniature and lightweight, the Fischer Rugged Flash Drive is the smart portable solution for daily field use and is perfectly suitable for use with ruggedized computers. It is ideal for harsh environment applications such as Defense & Security, Underwater, Motorsport and many others but also for office environments where data security and confidentiality is critical. Its flexible modular design, includes a large selection of body styles, sizes, contact configurations and memory capacities allowing it to be tailored to your needs.

DEFENSE

MOTORSPORT

SECURITY

CONFIDENTIALITY

UNDERWATER

DRONE

Fischer CONNECTORS

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