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IP67 USB 3.0 Connector Series

04/25/2017

... SuperSpeed-USB for use in harsh environments



The IP67 USB3.0 series is the new member to CONEC IP67 series connector family.

USB 3.0 provides data transfer rates 10 times faster than USB 2.0. Integrated into the CONEC bayonet locking housing the USB 3.0 connectors become suitable for industrial applications. The bayonet locking design allows a fast, simple and robust IP67 protected connection and ensures protection against environmental influences in rough conditions.

The new USB 3.0 Type A is plug compatible to USB 2.0 Type A. I.e. the Type A USB 3.0 connectors and sockets do fully accept all Type A connectors from the former generations. USB 3.0 Type B and Type Micro-B sockets are suitable to accept USB 2.0 Type B and Type Micro-B connectors, but vice versa those connections cannot be mated together.

The difference between USB 2.0 and USB 3.0 is that an additional signal pair allows full duplex data transfer, i.e. USB 3.0 can read and write data simultaneously at full speed. This is the first time a bidirectional data transfer is incorporated into the Universal Serial Bus.

A further improvement of USB 3.0 is the increased maximum unit load. USB 3.0 supports up to six devices with up to 150 mA load per device, i.e. a total load of 900 mA.

The IP67 USB3.0 connector series is available in plastic and metallised plastic. The Type A / Type A panel mounted receptacles are suitable for front and rear panel mounting. The cable connector accepts cable diameter between 4.0 mm and 6.0 mm. Besides the single connector the following cable assemblies are available in different lengths:

- IP67 USB Type A to IP67 USB Type A
- IP67 Type A Plug to USB 3.0 Type A overmoulded (IP20)
- IP67 Type A Plug to USB 3.0 Type B overmoulded (IP20)
- IP67 Type A Plug to USB 3.0 Type Micro-B overmoulded (IP20)

To protect the connector against dirt and moisture in unmated condition, protection caps with tether are available.

Productdetails:

Benefits:

- Use in harsh environments due to protection class IP67
- Quick and easy bayonet locking type
- Data transmission up to 4.8 Gigabit
- Backwards compatible with USB 2.0
- Maximum unit load up to 900 mA

Fields of application:

- Automation technology
- Building automation
- Process Automation
- GPS navigation
- Industrial interfaces
- Cable Assembly
- Security and Monitoring Systems
- Communication Technology
- Blu-Ray Drives
- External Hard Drives for harsh environment

Technical Data

Data transmission

up to 4,8 Gigabit

CONEC image video



Do you have any questions?

We will be pleased to help you.

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Fri 8 am - 3 pm

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Locking type	Bayonet
Type of termination	Solder
Terminal cross section	AWG27 to AWG22
Cable diameter	4 mm bis 6 mm
Contact platin	Gold overNickel
Connector operating temperature	-40°C - +85°C
Degree of protection in mated condition	IP67



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[← M12x1 Connectors overmoulded with plastic coupling screw/nut](#)

[UL approval →](#)

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- > Bayonet
- > CONEC SuperCon® Hybrid Connectors
- > Sensor Actor Line Connectors
- > PCB Connectors
- > Applications

The company CONEC

Industry 4.0, the current trend of increasing automation and data exchange in manufacturing environments, has resulted in new demands on electronic connectors. More data, being transferred at faster speeds, and the need for high reliability in sometimes harsh environments, has forced the development of new connectors. Conec's nearly 40 years of experience positions us to be a world leader in these interconnect products. CONEC produces in modern production sites using high-tech technologies and reliable production processes. CONEC products are used in automation, telecommunications and energy technology, machine manufacturing, agriculture and medical technology, transportation and aviation industry. High quality standards are ensured by applying DIN EN ISO 9001 standards. Depending on the product family, CONEC industrial connectors are tested and approved in accordance with UL-CSA-VDE.

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