Amphenol®

DATA SHEET

Ruggedised Micro-USB Connector
TERRAPIN

Amphenol's highly successful Terrapin connector series is now complemented by the new generation Micro-USB interface designed especially for harsh environment communication systems. This new product development combines the benefits of a rugged and IP68 sealed connector with the recognised technology of Micro-USB.

Micro-USB technology was developed by the USB Implementers Forum, and now replaces the majority of Mini-USB connections for equipment such as PDAs and Smartphones. The specification of the Micro-USB supports the current USB On-The-Go (OTG) supplement and provides total mobile interconnectivity by enabling portable devices to communicate directly with each other without the need for a host computer.

By incorporating Micro-USB technology into the renowned Terrapin connector Amphenol Ltd can offer advantages of increased durability and reliability for USB data transmission in harsh environment applications. The shell design of the Terrapin Series also ensures blind-mating of receptacle to plug and IP68 sealing in both mated and un-mated conditions which eliminates ingress of moisture and dust through the interface.

Available in various RoHS compliant plating finishes the Terrapin Micro-USB connectors are suitable for both military and industrial applications.
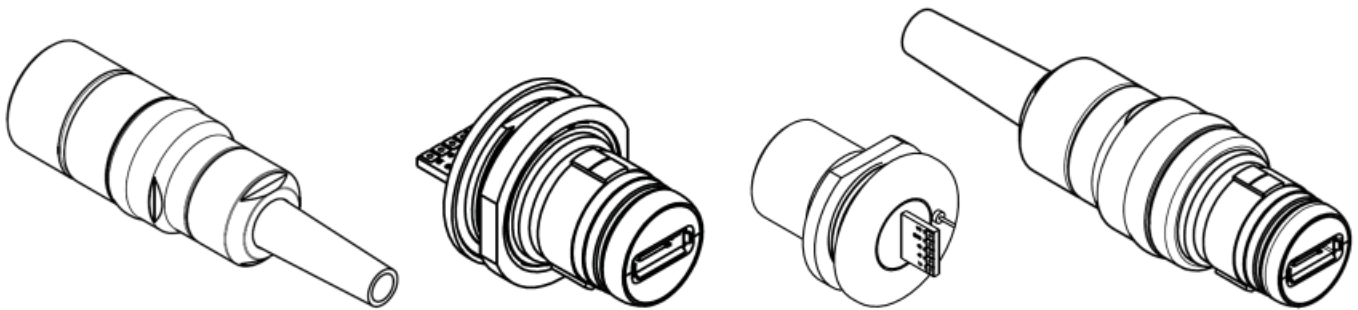
Key Features

- **Technology** conformance to High Speed USB 2.0 specification

- **Overmoulded** Available as overmoulded cable assembly with ruggedised USB cable

- **Mating Options** Two versions available; push-pull snatch style or latch with coupling ring

- **Mechanical** backshell for strain relief and screen termination, 2000 mating cycles, 5 keying options, miniature footprint <16mm Ø

- **Compatability** Intermateable with standard COTS Mirco-USB plug connectors

- **Environmental** Termperature range -55°C to +85°C, IP68 sealing 1hr @ 2m immersion, 1000hrs salt spray, RoHS compliant, vibration 10g sine, 30hrs, 5Khz

Ruggedised Micro-USB Connnector

Other key features of the product include a high degree of robustness resulting from the brass shell material and excellent grounding / EMI screening. Furthermore, the utilisation of brass provides an increased number of mating cycles when compared with standard aluminium connectors.

Jam nut Terrapin connectors are available with either a Micro-B plug or Micro-AB receptacle insert and feature a grounding post on the shell for screening as well as a PCB board for termination.

The mating connectors are available either individually or pre-terminated onto overmoulded cable assemblies to the customers' requirements. The Terrapin Micro-USB connector retains the high performance features from the Terrapin series and allows the same plug connector to mate to either a latching or push-pull receptacle.

Ordering Information

eg. **SCE2USB-B-76A08-2ABSN**

Series	Plating Finish	Style	Shell Size	USB Type	USB Interface Style	Key Orientation
SCE2USB	B = Black Silver	76A = rear mount jam nut plug	08	2 = Micro	BP = B style plugs	N = Normal
		06T = inline plug			ABS = AB style socket	A
		01T = inline snatch receptacle				B
		L1T = inline latch receptacle				C
		07A = rear mount jam nut receptacle				D

For overmoulded cable assemblies, please contact factory to ascertain part number and receive proposal drawing.

Typical Applications

- Battlefield communications
- Soldier systems
- Ruggedised computers, PDAs and GPS devices
- Harsh environment handheld equipments
- Data storage devices

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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