

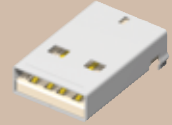


USB-A-D-S-B-TH

USBR-A-S-F-O-TH



USB-AM-S-F-W-TH



USB-A-S-F-B-VU

**USB-A, USBR-A, USB-AM SERIES**

# STANDARD & RUGGED USB INTERFACES

**SPECIFICATIONS**

For complete specifications and recommended PCB layouts see [www.samtec.com?USB-A](http://www.samtec.com?USB-A) or [www.samtec.com?USBR-A](http://www.samtec.com?USBR-A)

- Insulator Material:** High Temperature Thermoplastic
- Contact Material:** Phosphor Bronze
- Shell Material:** Copper Alloy
- Plating:** Gold on Contacts, Nickel on Shell, Tin on Tails
- Operating Temp Range:** -50°C to +85°C
- Current Rating:** 1 A per contact
- Voltage Rating:** 30 VAC
- Contact Resistance:** 30 mΩ max
- Cycles:** 1500 (maximum number of cycles tested)
- Packaging:** Packaged and shipped in Bulk Packaging Trays; Trays suitable for automation are available upon request.
- RoHS Compliant:** Yes
- Lead-Free Solderable:** -SM1=Yes, -TH & -VU=Yes (Wave Solder only)



| TYPE                               | A | SHELL TYPE   | PLATING  | COLOR   | TERMINATION  |
|------------------------------------|---|--|--|---|--|
| <b>USB</b><br>= Standard Connector |   | <b>-S</b><br>= Single<br><b>-D</b><br>= Double (-TH option only) | <b>-S</b><br>= 30µ" (0,76 µm)<br>Gold on Mating Area, Tin on Tails<br><b>-F</b><br>= Gold Flash on Mating Area, Tin on Tails | <b>-B</b><br>= Black<br><b>-W</b><br>= White<br><b>-O</b><br>= Orange (USBR only) | <b>-TH</b><br>= Through-hole<br><b>-SM1</b><br>= Offset Surface Mount<br><b>-VU</b><br>= Upright, Through-Hole |



**SPECIFICATIONS**

For complete specifications and recommended PCB layouts see [www.samtec.com?USB-AM](http://www.samtec.com?USB-AM)

- Insulator Material:** High Temperature Thermoplastic
- Contact Material:** Phosphor Bronze
- Shell Material:** Copper Alloy
- Plating:** Gold on Contacts, Nickel on Shell, Tin on Tails
- Operating Temp Range:** -50°C to +85°C
- Current Rating:** 1 A per contact
- Voltage Rating:** 30 VAC
- Contact Resistance:** 30 mΩ max
- Cycles:** 1500 (maximum number of cycles tested)
- Packaging:** Packaged and shipped in Bulk Packaging Trays; Trays suitable for automation are available upon request.
- RoHS Compliant:** Yes
- Lead-Free Solderable:** -SM1=Yes, -TH=Yes (Wave Solder only)



| USB | TYPE                          | SHELL TYPE            | PLATING  | COLOR  | TERMINATION  |
|-----|-------------------------------|-----------------------|--|--|--|
|     | <b>-AM</b><br>= A Type (Plug) | <b>-S</b><br>= Single | <b>-S</b><br>= 30µ" (0,76 µm)<br>Gold on Mating Area, Tin on Tails<br><b>-F</b><br>= Gold Flash on Mating Area, Tin on Tails | <b>-B</b><br>= Black<br><b>-W</b><br>= White | <b>-TH</b><br>= Through-hole<br><b>-SM1</b><br>= Surface Mount |

Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)