



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
USB = Standard Connector		-S = Single -D = Double (-TH option only)	-S = 30µ" (0,76 µm) Gold on Mating Area, Tin on Tails -F = Gold Flash on Mating Area, Tin on Tails	-B = Black -W = White -O = Orange (USBR only)	-TH = Through-hole -SM1 = Offset Surface Mount -VU = 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
	-AM = A Type (Plug)	-S = Single	-S = 30µ" (0,76 µm) Gold on Mating Area, Tin on Tails -F = Gold Flash on Mating Area, Tin on Tails	-B = Black -W = White	-TH = Through-hole -SM1 = Surface Mount

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

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