



USB-B, USBR-B, USBC SERIES

STANDARD & RUGGED USB INTERFACES

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?USB-B or www.samtec.com?USBR-B

Insulator Material: High Temperature Thermoplastic
Contact Material: Phosphor Bronze
Shell Material: Brass
Plating: Gold on Contacts, Nickel on Shell, Tin on Tails
Operating Temp Range: -50°C to +85°C
Current Rating: 1A 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: USB-SM=Yes
 USB-TH=Yes
 USBR=Yes (Wave Solder only)



TYPE	B	S	PLATING	COLOR	TERMINATION	OTHER OPTION
USB = Standard Connector						
USBR = Increased Retention Connector (Complies with Class 1, DIV II minimum withdrawal requirement of 15N.)						
		-F = Gold Flash on Mating Area, Tin on Tails				
		-S = 30µ" (0,76 µm) Gold on Mating Area, Tin on Tails				
				-B = Black (USB only)		
				-W = White (USB only)		
				-O = Orange (USBR only)		
					-TH = Through-hole	
					-SM = Surface Mount	
					-VT = Vertical Top Entry (USBR Series only)	
						-TR = Tape and Reel Packaging (-SM only)

SERIES	MATING	UNMATING
USB	5.3 (23,59N)	6.1 (27,15N)
USBR	11.8 (52,51N)	11.5 (51,18N)



SPECIFICATIONS

For complete specifications see www.samtec.com?USBC

Insulator Material: Glass Filled Thermoplastic
Contact Material: Copper Alloy
Shell Material: Cold Rolled Steel (0,30mm) .012" thickness)
Plating: Gold on Contacts, Nickel on Shell, Tin on Tails
Operating Temp Range: 0°C to +40°C
Current Rating: 1.0A per contact
Voltage Rating: 30 VAC (R.M.S.)
Contact Resistance: 30 mΩ max
Minimum Cycles: 5000
RoHS Compliant: Yes

USBC	END NO. 1	END NO. 2	B	B	PLATING	WIRE LENGTH
	-MA = USB Mini A Type Plug	-MB = USB Mini B Type Plug				
	-AM = USB-A Type Plug	-BM = USB-B Type Plug (N/A with -MA)			-S = 30µ" (0,76µm) Gold on contact area	
						-1 = (1m) 39.37"
						-2 = (2m) 78.74"
						-3 = (3m) 118.11"

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