

USB-B, USBR-B, USBC SERIES

STANDARD & RUGGED USB INTERFACES

SPECIFICATIONS

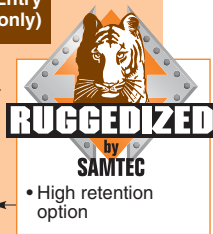
For complete specifications and recommended PCB layouts see www.samtec.com?USB-B or www.samtec.com?USBR-B

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
 (Wave Solder only)
 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.