

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

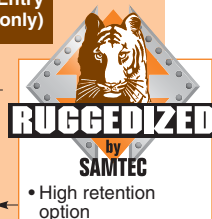
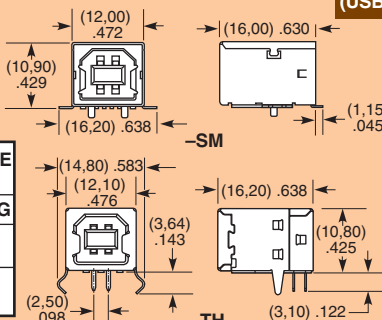
-SM = Surface Mount

-VT = Vertical Top Entry (USBR Series only)

-TR

= Tape and Reel Packaging (-SM only)

MATING / UNMATING FORCE (100 CYCLES)		
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

Mates with:
MUSB, USB,
USBR

-MA
= USB Mini A
Type Plug

-AM
= USB-A
Type Plug

-MB
= USB Mini B
Type Plug

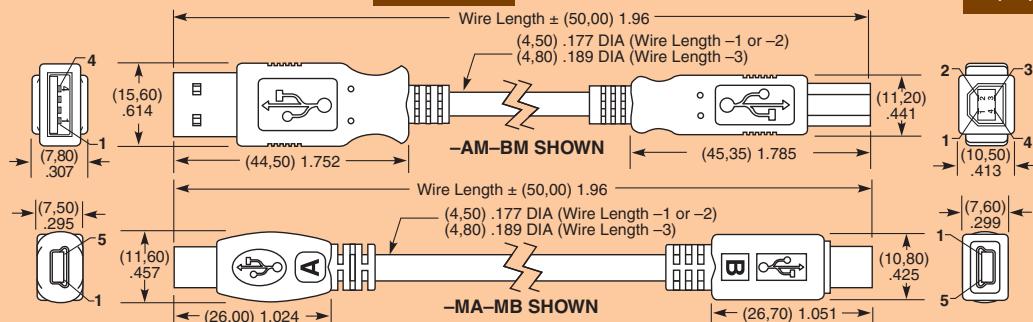
-BM
= USB-B
Type Plug
(N/A with -MA)

-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.

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