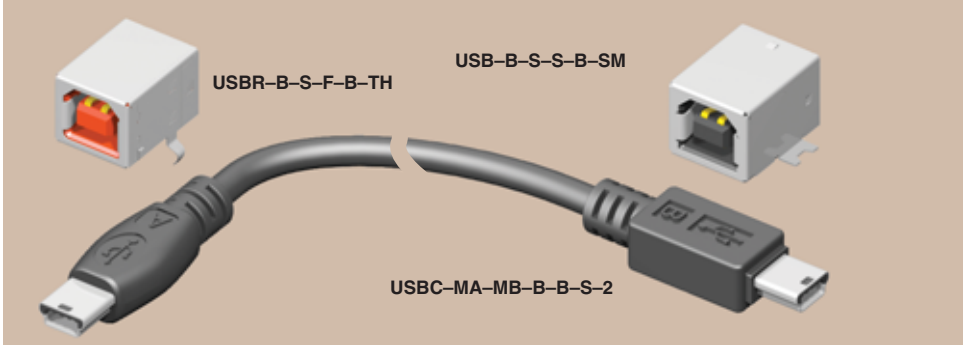


USB INTERFACES USB-B, USBR-B, USBC SERIES

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: Steel
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: USB-SM=Yes USB-TH= Yes (Wave Solder only) USBR=Yes (Wave Solder only)

FILE NO. E111594 (USB only)
FILE NO. E225096 (USBR 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.)

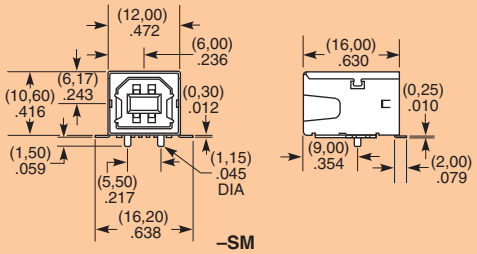
–S = 30µ" (0,76 µm) Gold on Mating Area, Tin on Tails
–F = Gold Flash on Mating Area, Tin on Tails

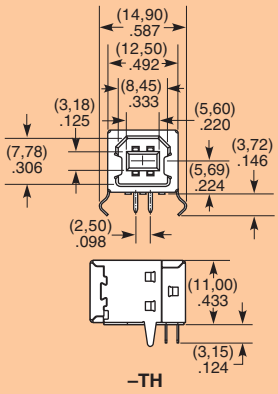
–B = Black (USB only)
–W = White (USB only)
–O = Orange (USBR only)

–TH = Through-hole
–SM = Surface Mount (USB 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: 1.0 A 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

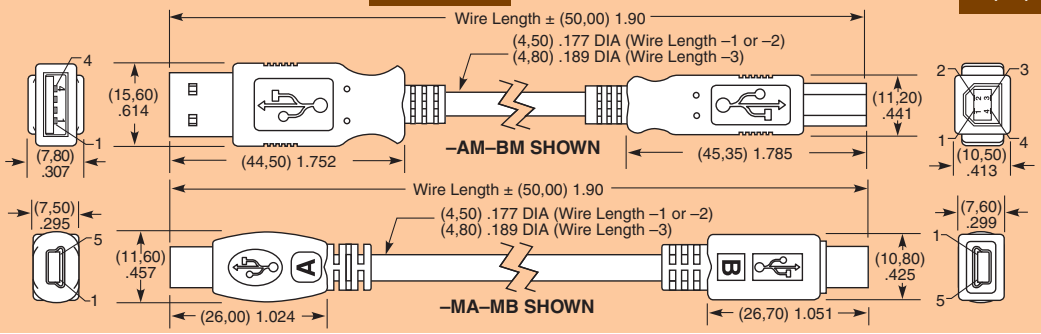
Mates with: MUSB, USB, USBR

–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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