

ULTRA RUGGED I/O SYSTEMS

(1.00 mm) .0394" PITCH



MAX
2.9
A m p s

FEATURES & BENEFITS

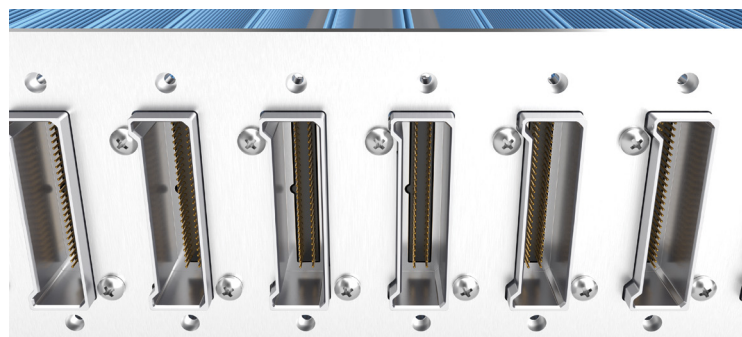
- Small form factor
- Four points of contact for a reliable connection and high mating cycles
- Up to 40 positions per row
- Cable-to-cable & cable-to-board solutions
- EMI shielding limits signal degradation and optimizes performance
- Through-hole or surface mount
- 28 & 30 AWG cable



Shown actual size at 20 total positions



Hyperboloid-type contact for extreme high mating cycles



Extreme density with up to 1,450 total I/Os in a 1RU panel (29 cables at 50 total I/Os each)

KEY SPECIFICATIONS (P1PD(X), B1SD(X) & P1M)

PITCH	INSULATOR MATERIAL	CONTACT MATERIAL	SHIELD MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING
1.00 mm	Liquid Crystal Polymer	Beryllium Copper	Zinc Alloy	Au over 50 μm (1.27 μm) Ni	-10 °C to +80 °C (PVC) -40 °C to +125 °C (*Teflon™ Fluoropolymer)	2.9 A per pin (2 pins powered)	253 VAC

*Teflon™ is a trademark of The Chemours Company FC, LLC used under license by Samtec.

(1.00 mm) .0394" PITCH • NON-PANEL MOUNT I/O CABLE/COMPONENTS

SERIES	NO. OF POSITIONS	WIRE GAUGE	COLOR CODE	PLATING	ASSEMBLED LENGTH	PINOUT
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B1SD
= Double Row
Non-Panel Mount
PVC Cable

B1SDT
= Double Row
Non-Panel Mount
Blue *Teflon™
Fluoropolymer Cable

**-10, -15,
-25, -30**
(Per Row)

-28
= 28 AWG

-30
= 30 AWG

(Leave blank for standard wire)

C
= Color Code Wire
(Not available with B1SDT)

-H
= 30 μ" (0.76 μm)
Gold on contact area,
Gold flash on tail

-"XX.X"
= Length in inches
06.0" (152.4 mm)
minimum

(Leave blank for
single ended)

-1
= Pin 1 to
Pin 1

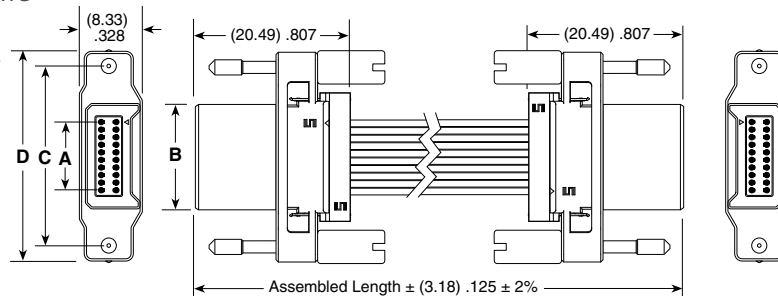
-2
= Pin 1 to
Pin 2

-3
= Pin 1 to
Pin N

-4
= Pin 1 to
Pin N-1

B1SD
PRELIMINARY

B1SD, B1SDT
Cable Mates:
P1PD, P1PDT
Board Mates:
P1M



B1SDX-10-XXX-H-XX.X-3 SHOWN

NO. OF POSITIONS	A	B	C	D
-10	(9.00) .354	(13.94) .549	(23.75) .935	(27.75) 1.093
-15	(14.00) .551	(18.94) .746	(28.75) 1.132	(32.75) 1.289
-25	(24.00) .945	(28.94) 1.139	(38.75) 1.526	(42.75) 1.683
-30	(29.00) 1.142	(33.94) 1.336	(43.75) 1.722	(47.75) 1.880

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Notes:
Teflon™ Fluoropolymer Cable is intended for crimp only. Contact Samtec for solderable cable applications.

Some lengths, styles and options are non-standard, non-returnable.

B1SD CABLE HOLDER (Required for use with IBT1)

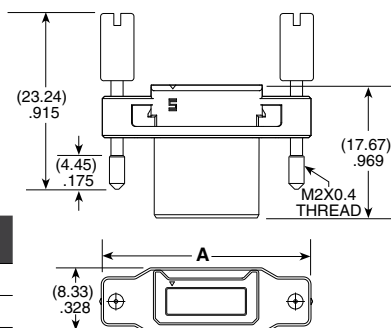
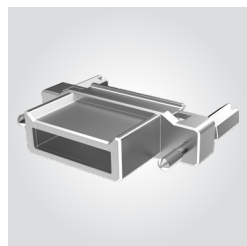
SERIES	NUMBER OF POSITIONS
B1SDR	-10, -15, -25, -30

View complete specifications at: samtec.com?B1SD & samtec.com?B1SDT

B1SDS	NO. OF POSITIONS	N	OPTION
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-10, -15, -25, -30

-CS
= Captive Screw



NO. OF POSITIONS	A
-10	(27.75) 1.093
-15	(32.75) 1.289
-25	(42.75) 1.683
-30	(47.75) 1.880

Note:
Some lengths, styles and options are non-standard, non-returnable.

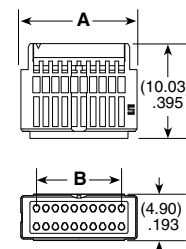
TOOLING

Hand Tool: TBD

Mini Applicator: TBD

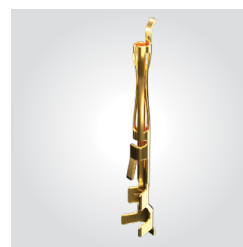
IBT1	NO. OF POSITIONS	1
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-10, -15, -25, -30



NO. OF POSITIONS	A	B
-10	(12.290) .484	(9.00) .354
-15	(17.290) .681	(14.00) .551
-25	(27.290) 1.074	(24.00) .945
-30	(32.290) 1.271	(29.00) 1.142

CC508	01	PLATING	PACKAGING
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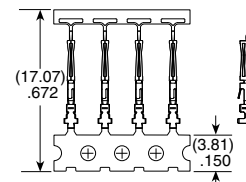


-H
= 30 μ" (0.76 μm)
Gold on contact area,
Gold flash on tail

-R
= Full Reel
(25,000 Contacts
Per Reel)

-M
= Mini Reel
(1,000 to 5,000
Contacts Per Reel)

-B
= Bubble Bag
(35 Contacts)



View complete specifications at: samtec.com?B1SDS, samtec.com?IBT1 & samtec.com?CC508