URSA I/O
ULTRA RUGGED CONTACT SYSTEM

ULTRA RUGGED I/O SYSTEMS

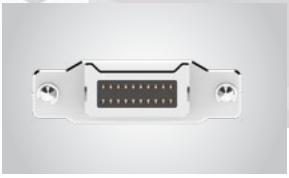
(1.00 mm) .0394" PITCH



MAX 2.9 Amps

FEATURES & BENEFITS

- Small form factor
- Four points of contact for an extremely reliable connection
- Up to 40 positions per row
- Cable-to-cable & cable-to-board solutions
- EMI shielding in development to reduce noise generated and protect sensitive lines
- 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 µ" (1.27 µm) Ni	–10 °C to +80 °C (PVC) –40 °C to +125 °C (*Teflon®)	2.9 A per pin (2 pins powered)	253 VAC

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

URSA I/O
ULTRA RUGGED CONTACT SYSTEM

samtec

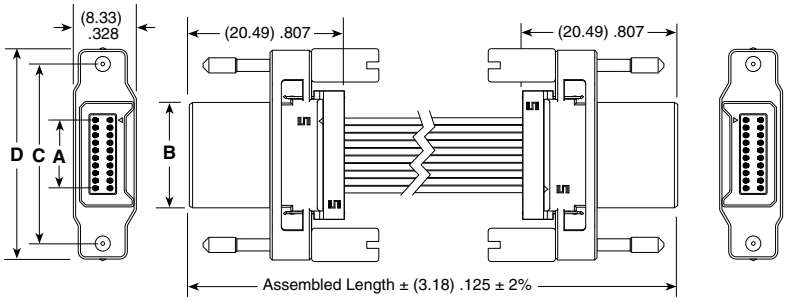
(1.00 mm) .0394" PITCH • NON-PANEL MOUNT I/O CABLE/COMPONENTS

SERIES	NO. OF POSITIONS	WIRE GAUGE	COLOR CODE	PLATING	ASSEMBLED LENGTH	PINOUT
B1SD = Double Row Non-Panel Mount PVC Cable **B1SDT** = Double Row Non-Panel Mount Blue *Teflon® 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

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

*DuPont™ Teflon® is a registered trademark of the E.I. du Pont de Nemours and Company or its affiliates.

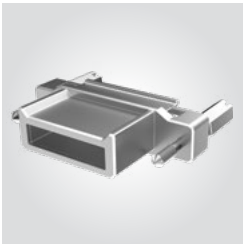
Notes:
Teflon® cable is intended for crimp only. Contact Samtec for solderable cable applications.

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

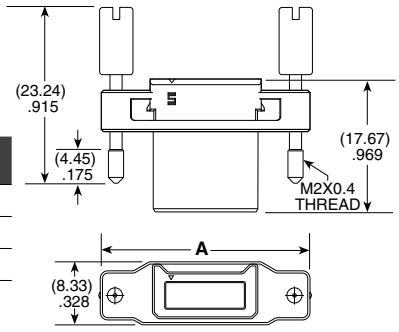
B1SD CABLE HOLDER (Required for use with IBT1)	
SERIES	NUMBER OF POSITIONS
B1SDR	–10, –15, –25, –30

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

B1SDS	NO. OF POSITIONS	N	OPTION
	–10, –15, –25, –30		**–CS** = Captive Screw



PRELIMINARY



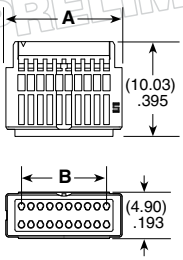
NO. OF POSITIONS	A
–10	(27.75) 1.093
–15	(32.75) 1.289
–25	(42.75) 1.683
–30	(47.75) 1.880

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

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

PRELIMINARY





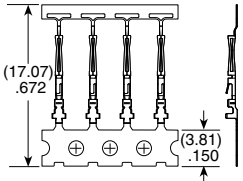
NO. OF POSITIONS	A	B
–10	(12.290) .484	(9.00) .354
–15	(17.290) .681	(14.00) .551
–25	(27.29)0 1.074	(24.00) .945
–30	(32.290) 1.271	(29.00) 1.143

CC508	01	PLATING	PACKAGING



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

PRELIMINARY



–R
= Reel (25,000 +300/ -0 PCS Per Reel)

–M
= Mini Reel (1,000 +300/ -0 PCS Per Reel)

–B
= Bubble Bag (35 Parts)

TOOLING

Hand Tool: TBD	Mini Applicator: TBD

View complete specifications at: **samtec.com?IB1SDS**, **samtec.com?IBT1** & **samtec.com?CC508**

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.