URSA™ I/O
ULTRA RUGGED CONTACT SYSTEM

ULTRA RUGGED I/O SYSTEMS

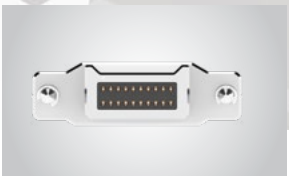
(1.00 mm) .0394" PITCH



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

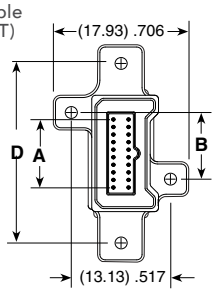
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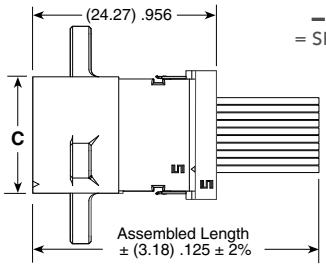
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(1.00 mm) .0394" PITCH • PANEL MOUNT I/O CABLE/COMPONENTS

SERIES	NO. OF POSITIONS	WIRE GAUGE	COLOR CODE	PLATING	ASSEMBLED LENGTH	END OPTION	PINOUT
P1PD Double Row Panel Mount PVC Cable **P1PDT** Double Row 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 P1PDT)	**–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) **–B** = B1SD **–S** = SFSD	(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

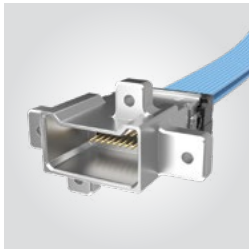




P1PDX-10-XXX-H-XX.X SHOWN

P1PD, P1PDT

Cable Mates:
B1SD, B1SDT



NO. OF POSITIONS	A	B	C	D
–10	(9.00) .354	(8.79) .346	(15.39) .606	(23.75) .935
–15	(14.00) .551	(13.79) .543	(20.39) .803	(28.75) 1.132
–25	(24.00) .945	(23.78) .937	(30.39) 1.196	(38.75) 1.526
–30	(29.00) 1.142	(28.79) 1.133	(35.39) 1.393	(43.75) 1.722

*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.

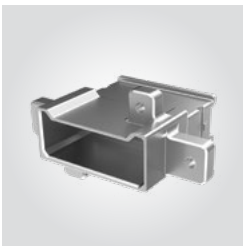
P1PD CABLE HOLDER (Required for use with IPP1)	
SERIES	NUMBER OF POSITIONS
P1PDR	–10, –15, –25, –30

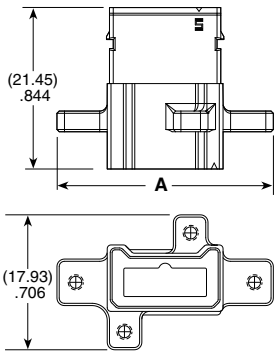
View complete specifications at: **samtec.com?P1PD** & **samtec.com?P1PDT**

P1PDS	–	NO. OF POSITIONS	–	N

–10, –15, –25, –30

PRELIMINARY





NO. OF POSITIONS	A
–10	(28.75) 1.132
–15	(33.75) 1.329
–25	(43.75) 1.722
–30	(48.75) 1.920

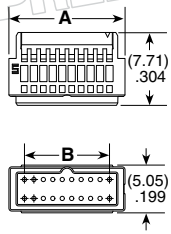
Note:
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IPP1	–	NO. OF POSITIONS	–	1

–10, –15, –25, –30

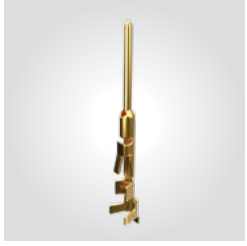
PRELIMINARY



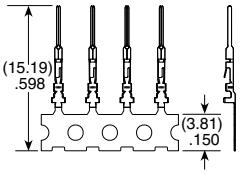


NO. OF POSITIONS	A	B
–10	(12.290) .484	(9.00) .354
–15	(17.290) .681	(14.00) .551
–25	(27.290) 1.074	(24.00) .945
–30	(32.290) 1.271	(29.00) 1.142

TC145	–	01	–	PLATING	–	PACKAGING



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



–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?P1PDS**, **samtec.com?IPP1** & **samtec.com?TC145**

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