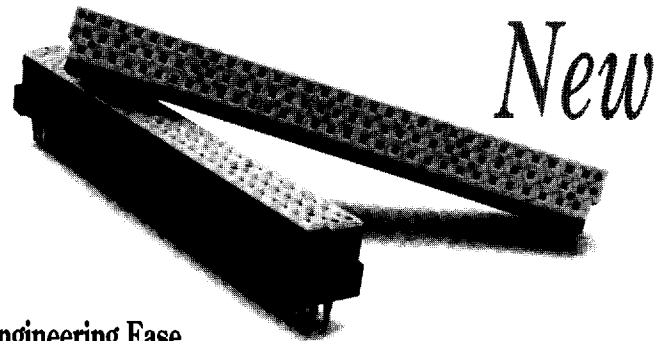


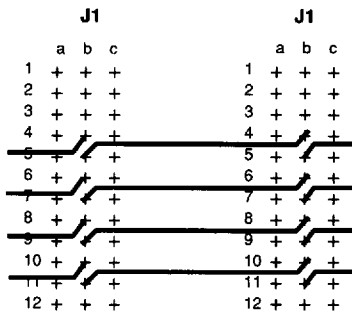
SD Series/Switching DIN Connector

A 61-13

The Switching DIN Connector is the newest addition to Augat's DIN connector line. The revolutionary Switching DIN Connector features integral switches that automatically jumper the signal path when a daughter card is removed from the connector.



Why...



...To continue Daisy Chained Signal Bussing when a slot is vacated

Engineering Ease...

drop in replacement for standard DIN connector...
eliminates engineering design costs

Performance enhancer...

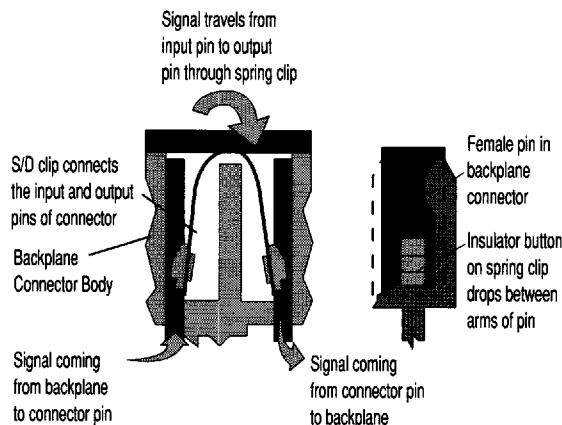
50 times faster than electrical switch circuit design

Manufacturer's choice...

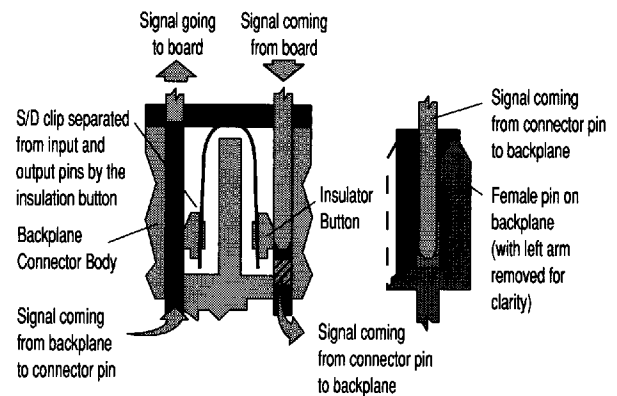
Most cost effective solution...white cover easily differentiates SD from standard DIN connector. No ESD precautions necessary!

How...

Switching DIN switch Clip (Shorted)



Switching DIN switch Clip (Opened)



Features

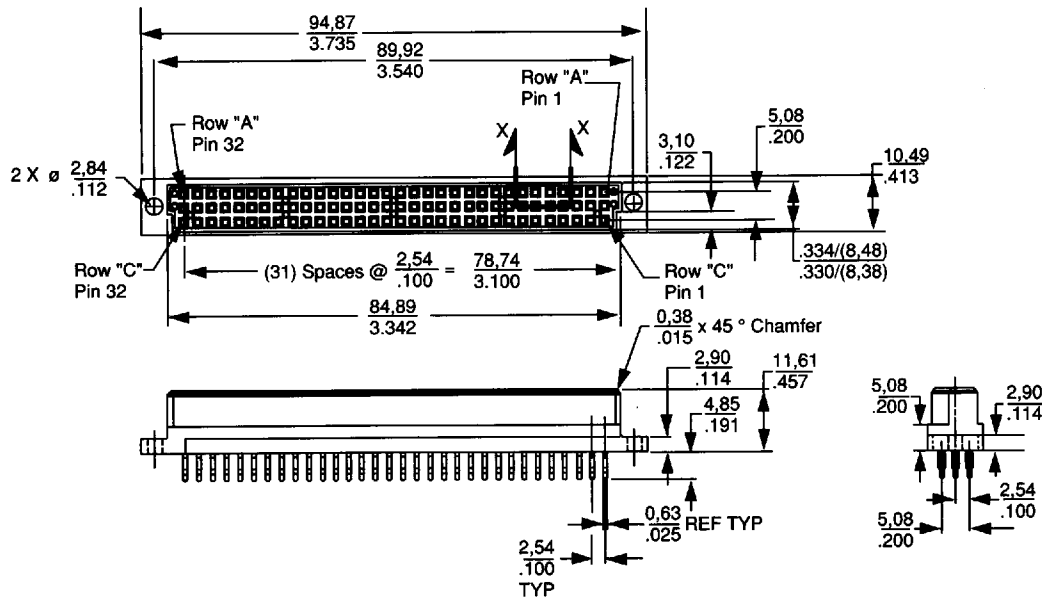
- Configured to DIN 41612 specifications.
- Uses flat press for application to board for fast and economical connector installation, no special tooling necessary
- Allows switches to be placed to specific requirements for maximum design flexibility.
- Fully compatible with standard "C" style male DIN connectors
- Appropriate for all "Daisy-Chain" bus structures
- Well suited for applications in local area networking "Smarthubs"
- "Hot swap" capability. Switch made before connector breaks

AUGAT®
Quality
and Innovation
INTERCONNECTION PRODUCTS DIVISION

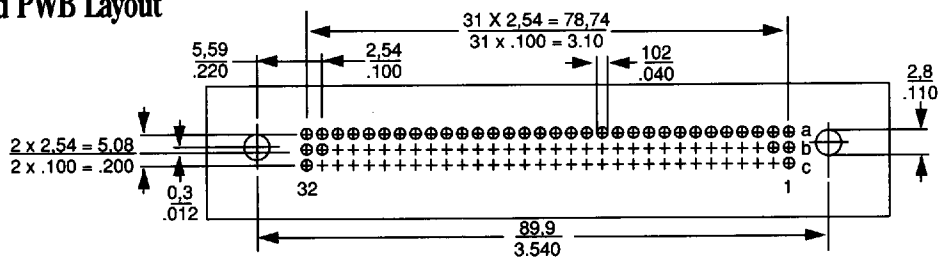
AUGAT INC., INTERCONNECTION PRODUCTS DIVISION
452 John Dietsch Blvd., Attleboro Falls, MA 02763 USA
(508) 699-9800 FAX: (508) 699-6717

SD Series/Switching DIN Connector

Dimensions



Recommended PWB Layout



Material Specifications

Connector

- Current Rating 2A
- Contact Resistance ≤ 20 mΩ
- Insulation Resistance ≥ 10 MegΩ
- Temperature Rating -55° C to + 125° C
- Mating Force
(Including Switches) 3.5 oz. average per contact
- Unmating Force
(Including Switches) 0.53 oz. min per contact

Recommended hole sizes:

- Press Fit Drilled:0463 (1,18) / .0443 (1,12) ø
- Copper Minimum:001 inches per side
- Finished:043 (1,09) / .037 (0,94) ø

Switch

- Current (Switch Durability)
400 cycles at 100mA 12Vdc
- Switch Contact Resistance .. ≤ 50mΩ (End of Life)
- Insulation Resistance
(Adjacent Open Contacts) .. ≥ 10 MegΩ (End of life)

Typical Performance Characteristics

Materials-Connector


- Insulator Glass filled Polyester
UL Rated 94V-0
- Contact Phosphor Bronze per
ASTM-B-103
- Plating
Nickel per QQ-N-290
Gold per MIL-G-45024 Type I

Materials-Switch

- Button Glass Filled Polyester
UL Rated 94V-0
- Switch BeCu per ASTM-B-194
- Plating
Nickel per QQ-N-290
Gold per MIL-G-45024 Type I

SD Series/Switching DIN Connector

Contact Plating Locations

	-1	-9	Solder Tail -2
	Area 3 30µ in. gold	Area 3 30µ in. gold	Area 3 30µ in. gold
	Area 2 Nickel	Area 2 Nickel	Area 2 Nickel
	Area 1 5µ in. gold	Area 1 Nickel	Area 1 Tin/Lead

Switch Clip Plating
30µ in gold contact areas

Part Number

43	-	X	X	X	X	-	X	XX	-	XXX
DIN Connector	Series Female Standard	Type Press Fit	Rows Loaded	Tail Length	Plating	Number of Switches	Switch Footprint			
	2 = without mounting ears 3 = with mounting ears	1= Press Fit 2= Solder Tail*	0 - All 5 - A & C	0 - .188" 2 - .518 4 - .635"	See 1 Plating 2 Location 9 chart	01 thru 48	Assigned per customer specific requirement			

*S/T only available in .188" tail length

Switch Footprint Assignment

Please complete this section to receive pricing and part number assignment for your specific Switching DIN Connector requirements.

In the pin pattern shown at right, please indicate the pin pairs to be jumpered by:

- a) placing a box around specific pin pairs
- b) listing the pin assignments by row in the space provided (example 1A-2A)

Note that only adjacent contacts within each row may be jumpered. Jumpering cannot be achieved between rows. Please indicate the Augat part number and quantity to be quoted (the last portion, Switch footprint, will be factory assigned.)

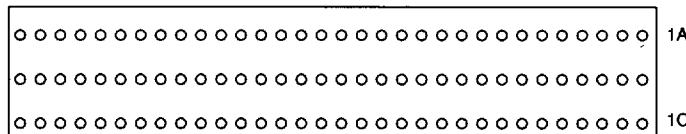
43 - _____ - _____ - XXX

Quantity: _____

A copy of this completed area may be faxed to Augat Customer Service at Fax: (508) 699-6717. Please include the following information:

Name _____ Title _____
 Company _____ Address _____
 Phone _____ Fax _____

Or you may phone in your request to Augat Customer Service at Phone: 508-699-9800



Jumpered Pairs (only adjacent contacts within a row)		
Row A	Row B	Row C