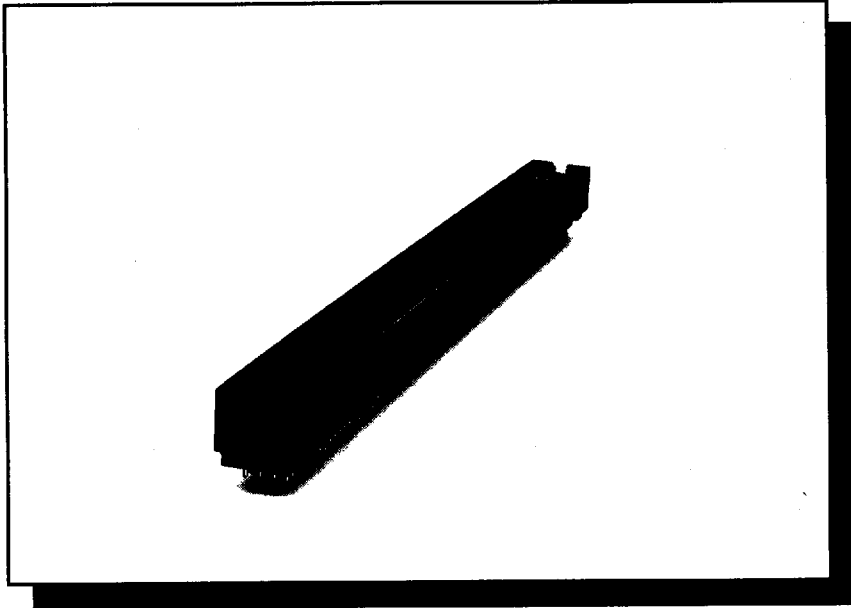
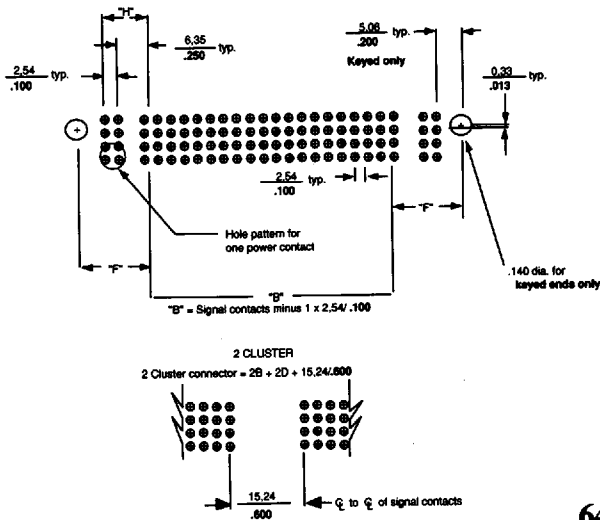



Male 4 Row Box Pac



The 4 Row Box Pac is a high density connector which allows four rows of connections on a .100" grid on centers. It is a modular design with the signal sections of the connector available in 40 (4 X 10) to 264 (4 X 66) pins. End caps are available flush or keyed with zero to 6 rows of 4 power contacts. The keying system permits 36 combinations of polarization. The male backplane connector utilizes compliant pin press-fit pins for both the power and signal connections. The power pins can be supplied with first make/last break and take up the space of two signal contacts while delivering more than 3 times the power. The signal pins are available in a variety of different lengths selectively plated in options to suit specific applications. The design of the mating surface mount female connector, which is unique to Augat, solves many of the impedance matching problems experienced with competitive four row high density connectors.



Features

- High density
- 40 to 264 signal connections
- Zero to 48 power connections
- Surface mount mating female
- Flush or key mount endcaps
- UL Recognized 

Materials

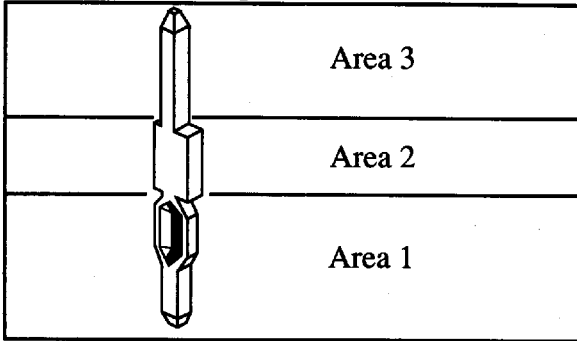
- Insulator: Glass filled polyester UL94V0.
- Contact: Phosphor bronze per Federal Specification QQ-B-750.
- Plating: Nickel per QQ-N-290
Gold per MIL-G-45024 Type 1
Tin per MIL-T-10727 Type 1

Performance Characteristics

- Dielectric withstand: ≥ 1000 VRMS, 60Hz at sea level.
- Insulator resistance: $\geq 10^5$ megohms.
- Temperature rating: -55°C to $+120^\circ\text{C}$.
- Recommended hole sizes:
 - Press-fit: Drilled .0463/.0443
 - Copper minimum: .001 min/side
 - Finish: .043/.037
- Marking: Meets MIL-STD-202 Method 215

Hole Pattern Location Chart		
End Cap Power Contacts	DIM "H"	DIM "F" keyed only
0	0	8,89/.350
1	8,89/.350	13,97/.550
2	13,97/.550	19,05/.750
3	19,05/.750	24,13/.950
4	24,13/.950	29,21/1.150
5	29,21/1.150	34,29/1.350
6	34,29/1.350	39,37/1.550

Contact Plating Locations

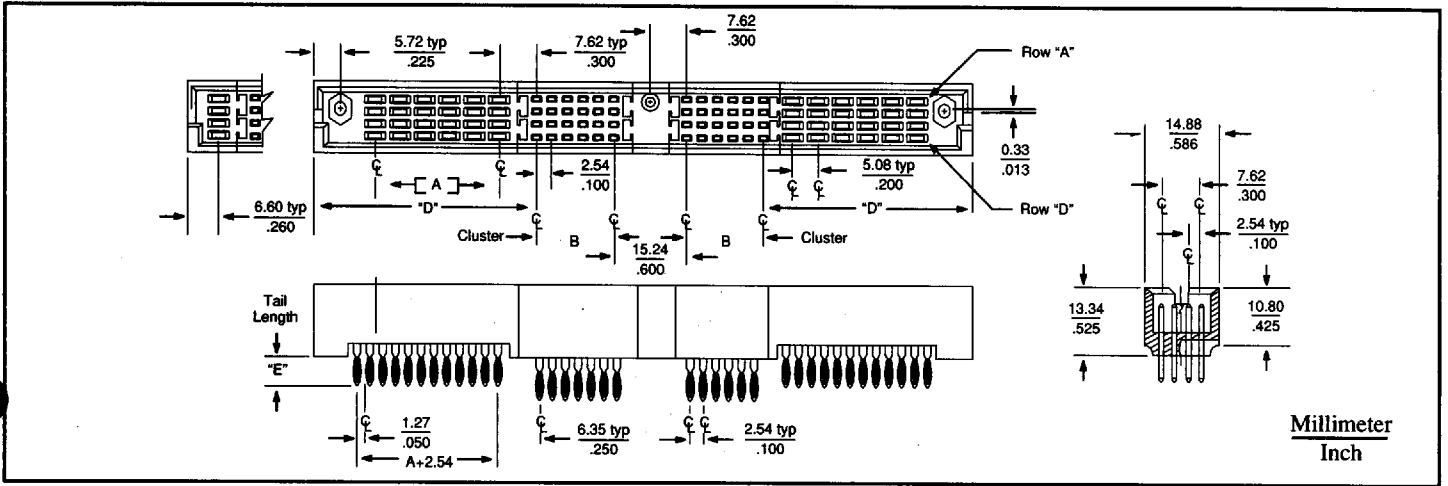


Plating Codes

Code	Area 1	Area 2	Area 3
1	5 μ" in. Gold	5 μ" in Gold	30 μ" in. Gold
9	100/200 μ" in. 90 tin/10 lead	NICKEL	30 μ" in. Gold

*50/100 μ" nickel undercoat overall

Male Connector



Millimeter
Inch

End Cap Power Pin Row Combinations

Power Pin Rep	0	1	2	3	4	5	6
Key							
'D' Dimension	14.61/.575	19.69/.775	24.77/.975	29.85/1.175	34.93/1.375	40.01/1.575	45.09/1.775
Flush							
'D' Dimension	8.64/.340	14.22/.560	19.30/.760	24.38/.960	29.46/1.160	34.54/1.360	39.62/15.60

Part Number

Box Connector	Type	Style	Power Pins Per row(a)	Tail Length "E"	Plating Codes	Signal Contacts (B)
40	3	X	X	X	X	XX
	4 Row Male	0 = Flush 1 Cluster 1 = Flush 2 Cluster 2 = Keyed 1 Cluster 3 = Keyed 2 Cluster	0 = 0 1 = 1 2 = 2 3 = 3 4 = 4 5 = 5 6 = 6	0 = .188 1 = .518 2 = .715	1 9	Single Cluster 10-66/Row Double Cluster 10-40/Row Per Cluster

Formula for Determining Total Length of Connector

"A" = Number of Power Contacts minus
1 x .200/5.08

"B" = Number of Signal contacts minus
1 x .100/2.54