

CIN::APSE®

Stacking Connectors High-density circuits between boards

The Cinch Advantage

CIN::APSE® stacking connectors are used for connecting PCB, flex PCB to PCB or component to PCB without the use of solder. The contacts are compact with a pitch of 0.040". Each pathway on the CIN::APSE® connector relies on a spring-like contact that establishes a durable electrical connection using mechanical pressure. The spring-like contact is protected from over compression by the CIN::APSE® insulator. Plungers are used on either side of the spring-like contact allowing compression cycles to over 100. The connector mounts onto the PCB and connects electrically to gold plated pads.

CIN::APSE® stacking connectors can be found in multiple military, aerospace and satellite applications where a mezzanine style PCB layout is utilized to reduce space and weight. CIN::APSE® 1.0mm pitch allows for high-density of circuits between boards. CIN::APSE® mechanical contacts are ideal for applications that require frequent disconnections for modifications or testing. The mechanical contacts also reduce soldering cost and rework.



- 25, 51, 83, 166, 249 positions
- 0.125", 0.250" and 0.277" heights
- · Gold plated contacts and plungers
- 0.006" working compression range



*Stocked Part





Outline Specification

Current Rating	1-3A per positions
Withstanding Voltage	500 VDC (sea level)
Contact Resistance	<50 milliohms
Housing	UL94V-O rated liquid crystal polymer
Plunger	Gold-plated copper alloy
Contact	Gold-plated molybdenum
Operating Temperature	-65°F (-55°C) to 257°F (125°C)
Durability	>100 mating cycles
Configuration	Contact, plunger, contact
Alignment	With pins
Inductance	<2 nH
Vibration	20 Gs, 10-2,000 Hz

Configurations

25 Position



51 Position



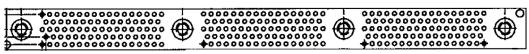
83 Position



166 Position



249 Position



Cinch Connectivity Solutions reserves the right to change specifications without notice



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