

## CONAN®

High Density, Low Profile 1.00mm Pitch Mezzanine Connectors

**C - Series** for Demanding Commercial Electronics Applications

### DESCRIPTION

The Conan 1.0mm mezzanine connector system provides a mechanically secure, high density electrical interface between parallel printed circuit boards.

Conan's mechanical features and palladium/nickel/gold plated electrical contacts qualify it for high reliability use in durable commercial electronic equipment and instruments.



### FEATURES & BENEFITS

- "Snap" engagement contacts assure secure mating with an audible "click"
- Blade-on-beam contact design allows "peeling" disengagement and prevents contact stubbing
- Connector housings feature "lead-in" angles to assist in mating
- Surface mounted metal hold-downs reinforce connector retention to the printed circuit board
- Mating polarization prevents backward connections
- PCB polarization prevents errors during printed circuit board assembly
- Pick and place caps with tape and reel packaging support automated assembly processes
- Header height options support a range of PCB stack heights: 4.15mm to 7mm
- 9 part sizes: 9 to 69 contacts
- Lead-free RoHS compatible products satisfy environmental regulations

### TARGET MARKETS / APPLICATIONS

- Portable meters / instruments
- Medical diagnostics
- Point-of-sale equipment, scanning
- Machine-to-Machine (M2M)
- Energy controllers / modules / displays
- Communications and networking equipment
- Electronic security
- Office equipment

**MEZ Select™**

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## MATERIALS

- Contact base metal
  - Header: Phosphor bronze
  - Receptacle: Copper Alloy, High Spring
- Contact area finish: gold or GXT
- Solder area finish: Pure tin over 1.27um (50μin.) nickel
- Housing material: Cream-colored LCP (UL 94V-0)

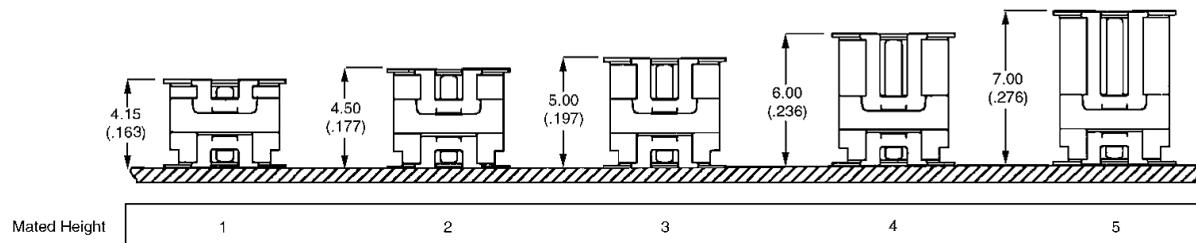
## ELECTRICAL PERFORMANCE

- Insulation resistance: 1000 MΩ min
- Contact resistance: 30 mΩ max
- Withstanding voltage: 500 V ac, rms, 60 Hz
- Current rating: 1.0 amp continuous (per contact, all contacts powered)
- Signal Integrity (differential pairs, connector only)
  - Impedance: 100Ω +/- 10% @ 50 ps edge (10-90%)
  - Insertion Loss: < 1dB to 5GHz
  - NEXT: ≤3.5% for a 50 ps edge (10-90%)
  - FEXT: ≤2.5% for a 50 ps edge (10-90%)

## PART NUMBERS

10118744 - T 133 Y ZZ LF		LEAD FREE	
TYPE	T		
PLUG WITH PEGS	1		
RECEPTACLE WITH PEGS	3		
Y	HEADER HEIGHT	RECEPTACLE HEIGHT	
1	.034 [.86]	.129 [3.28]	.163 [4.15]
2	.048 [1.23]		.177 [4.50]
3	.068 [1.73]	SEE Y=1 FOR ALL RECEPTACLES	.197 [5.00]
4	.107 [2.72]		.236 [6.00]
5	.1465 [3.721]		.276 [7.00]
ZZ	NUMBER OF POSITIONS		
09	9		
11	11		
15	15		
21	21		
25	25		
31	31		
41	41		
51	51		
69	69		

For additional configurations and packaging please consult print part 91900 at [www.fciconnect.com](http://www.fciconnect.com)



Mated connector max.width: .220" (5.59mm)

For more information please contact: [elxcommunications@fciconnect.com](mailto:elxcommunications@fciconnect.com)

[www.fciconnect.com/conan](http://www.fciconnect.com/conan)

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