## YAMAICHI CNU018 SERIES BLIND-MATE STYLE FFC/FPC CONNECTORS CTRONICS 0.5MM PITCH WITH VERTICAL & R/A MOUNT OPTIONS

AUTOMOTIVE COMPLIANT

### **SPECIFICATIONS:**

Insulation Resistance:  $500M\Omega$  min. at 125V DC Withstanding Voltage: 125Vrms for 1min Voltage Rating: 50Vrms AC Current Rating: 0.3A Contact Resistance: 50mQ max. at 20mV max. Operating Temp.: - 20°C ~ +85°C Mating Cycle: 20 times

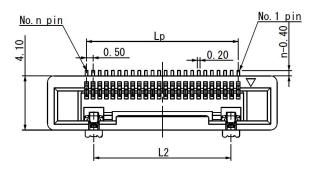
### **MATERIALS AND FINISH:**

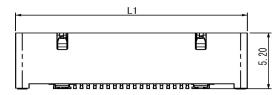
- Contacts: Ni-Au Alloy
- · Metal Shell: Ni-Au Alloy
- Insulator: LCP
- SMT Tabs: Stainless Steel

#### **FEATURES**:

- · Blind-Mate design for easy and efficient assembly process
- · Automotive grade performance
- Fool-Proof mating structure
- · Audible sound effect when successfully mated
- · RoHS and REACH Compliant

## **OUTLINE DIMENSIONS (mm):**

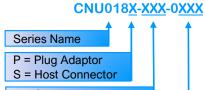




50	24.5	30.4	23.4
32	15.5	21.4	14.4
24	11.5	17.4	10.4
Pin count	Lp	L1	L2

## **CNU018S Host Connector**

## **PART NUMBER:**



Pin Counts: 24, 32, 50 pins

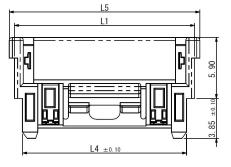
## Plug Adapter:

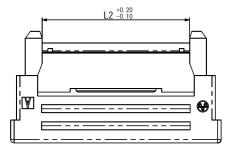
0001 = Plug Insulator Body 01SH = Plug Metal Shell

#### Host Connector:

- 0001 = Vertical Mount with R/A SMT Tabs 0002 = R/A Mount with R/A SMT Tabs 0011 = Vertical Mount with Vertical SMT Tabs 0012 = R/A Mount with Vertical SMT Tabs







50	24.5	30.4	25.9	28.85	31.4
32	15.5	21.4	16.9	19.85	22.4
24	11.5	17.4	12.9	15.85	18.4
Pin count	Lp	L1	L2	L4	L5

## **CNU018P Plug Adapter**

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\*\*DISCLAIMER: PRODUCT DATA & DIMENSIONS ARE SUBJECT TO CHANGES WITHOUT NOTICE\*\*

# YAMAICHI ELECTRONICS

# **Blind-Mate FFC Connector**

## **CNU018 Series Products Design Features**

Audible Locking Center-Latch Mechanism

FFC Cable Assembly	<ul> <li>Fool-Proof Blind-Mate Design</li> <li>Audible Mating "Click" sound</li> <li>Easy assembly mechanism provides efficient operation</li> <li>Lock releasing without damage at accidental askla pull forms</li> </ul>
CNU018S Receptacle	cable pull force

CNU018 Product Series are designed to be the perfect blind-mate FFC connectors. With keyed insulator design for blind-mate function and special auto-disengage function, the product series provides reliable mating quality and durability for product maintenance/replace purposes.

## Vibrations & Impact Shock Test Result for Automotive Usage

Test Item	Qualification Condition	Result
Mechanical Vibration Resistance	<ul> <li>Set-up: Mated condition</li> <li>Sweep Rate: 10-2,000-10Hz for 5mins</li> <li>Acceleration: 20m/s<sup>2</sup></li> <li>Test along X,Y, Z axis</li> </ul>	PASS
Sweep Vibration Resistance	<ul> <li>Set-up: Mated condition</li> <li>Sweep Rate 5-2,000-2Hz for 15mins</li> <li>Acceleration: 4.9 ~ 44.1m/s<sup>2</sup></li> <li>Duration: 18hrs each axis</li> <li>Test along X,Y, Z axis</li> </ul>	PASS
Impact Force Resistance	<ul> <li>Set-up: Mated condition</li> <li>Shock Wave Form: Half sinewave</li> <li>Acceleration: 980m/s<sup>2</sup></li> <li>Impact Duration: 6sec each impact, 3 impacts for each axis</li> <li>Test along X,Y, Z axis</li> </ul>	PASS

\*\*Companion FFC/FPC cable CAU018 series also available. Please contact YEU sales representative for more details\*\*

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