

## **Product Presentation**



### Agenda

- Product Overview
- Product Specifications
- Features & Benefits
- Main Markets & Applications



### **Value Proposition**

Amphenol FCi

More reliable than RJ45. With only one quarter the size of conventional RJ45 plugs, the Industrial Mini I/O connector provides critical space saving on a PCB – space that can now be used more efficiently.

Accidental unplugging of a network connection due to shock, vibration or pulling on cords causes expensive downtime in an industrial environment.

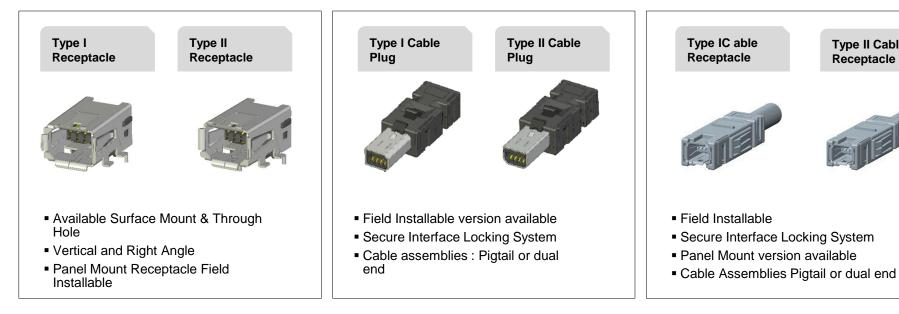
The Mini I/O unique locking system is specified to 100N of pull force. With its innovative piercing termination, the Mini I/O Field Installable version decreases the time usually needed to terminate the wires through soldering and with an easy to use hand tool, the field assembly in virtually any environment is now possible.

### **Product Overview**



Type II Cable

Receptacle



### **Product Specifications**

### **Product Facts**

- Used in Fast Ethernet or Gigabit Ethernet applications Meet Cat5e specification
- 2 unique interfaces which may be used by customers to prevent mismating
- RoHS compliant
- Lead Free, Halogen Free
- Compatible with other Mini I/O headers

#### **Electrical Performances**

- Rated Voltage: 30V
- Current Rating: 0.5A

#### **Mechanical Performances**

- Durability : 1500 cycles.
- Mating Force: 30N Max
- Unmating Force : 30N Max.
- Insulation Resistance: 500M ohms min.
- Cable Diameter : 7.1 mm Max
- Wire Size : 22-30 AWG

#### Environmental

Operating Temperature : -40°~85°C

#### **Materials**

- Housing: High temperature thermoplastic
- Shell: Copper Alloy
- Terminal: Copper Alloy

#### **Specifications**

- Standard: IEC/PAS 61076-3-122
- ANSI/TIA-568.C.2
- Product Specification: GS-12-1345, GS-12-1346 and GS-12-1347
- Package Specification: GS-14-2538

#### Packaging

Tray and Tape / Reel

## Amphenol FCi

### **Features & Benefits**

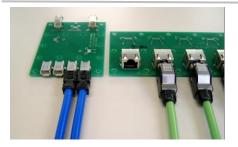


Features	Benefits
Compact size; 75% space saving vs. RJ45	Space saving
High reliability connection with "Fighting Snake" contact principle (2 points of contact per line)	Supports stringent demands of an industrial and high vibration environment, enabling increased productivity through a reliable connection
Locking feature with high cable retention force within the metal housing requiring a minimum of space	Protects the plug from accidental pull and unmating
Plug kit field installable	Time Saving Termination
Two unique interfaces to prevent improper connections	Prevents mismating

### Friendly concept for Outdoor applications

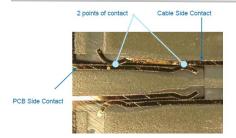
### Amphenol FCi

#### **Compact Size**



 Compact WTB connector system for Industrial Communications. It is 25% of the original size of an RJ45.

### High Reliability

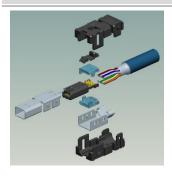


- Reduce contact failures
- Fighting snake concept, enables performance / continuity in high vibration environment.

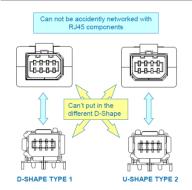
ocking reature		
Lock ejector PLUG Lock projection	HPRitokier	
	I DR IOCK leal	

 Accidental unplugging of a network connection due to shock, vibration, pulling on cords, etc.. Causes expensive downtime in an industrial environment

#### **Field Installable**



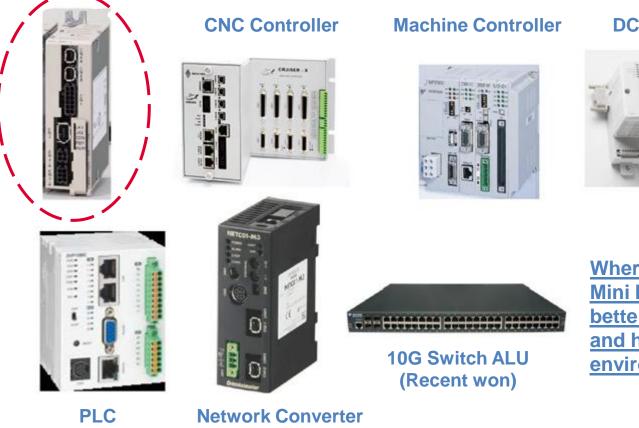
### Physical Coding



### **Main Markets & Applications**

### Amphenol FCi

**Motion Drive** 



### **DCS Controller**



Where RJ45 is applicable, Mini IO is ready to perform better under a smaller space and high vibration environment

### The interface for MECHATROLINK





Member List: <u>http://www.mechatrolink.org/app/association/members.php?lang=cn</u>



## **THANK YOU**

# Amphenol FCi