# RotaConnect® Wire–to–Board Connector

## Product Presentation
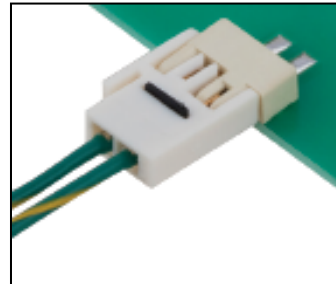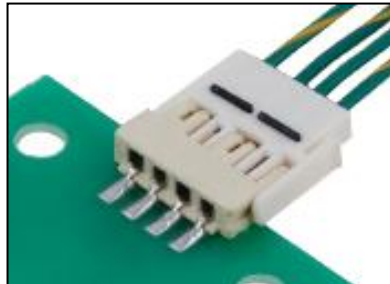
Basics Portfolio

**Amphenol**
**FCi**

# Agenda

- Value Proposition

- Product Overview

- Product Specifications

- Features & Benefits

- Part Numbers

- Applications

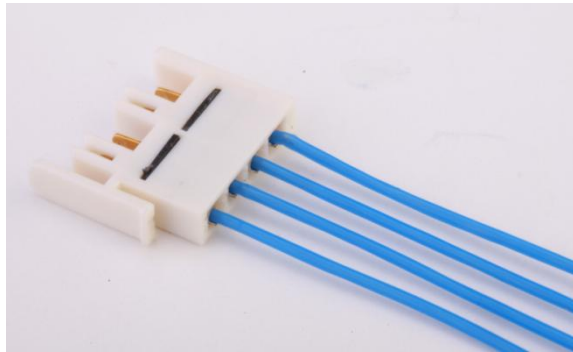# Rotaconnect® Wire–To–Board

## Value Proposition

- The comprehensive Rotaconnect® system includes a Wire-To-Board Solution that mates with the Rotaconnect® Board-To-Board SMT connector with pegs

- The Rotaconnect® solution could be used for stranded copper wire with a wire size range of 22-30 AWG.

- The Rotaconnect® solutions has different housing with 2 or 4 positions and the housing will be having a latch that will get engaged with the existing Board to Board Rotaconnect® with pegs for locking purpose.

# Rotaconnect® Wire–To–Board

## Product Overview
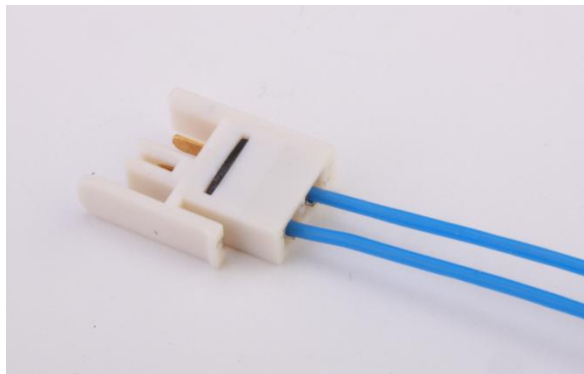


| 2 Position WTB Housing and Lock Kit | 4 Position WTB Housing and Lock Kit |
|---|---|
| 10120045–K02LF | 10120045–K04LF |



| Crimp–to–Wire Header Terminal | Crimp–to–Wire Receptacle Terminal |
|---|---|
| 10120045–P01LF | 10120045–R01LF |

# Rotaconnect® Wire–To–Board

## Product Specifications

### Product Facts

- 2 or 4 Housing position
- Wire range: 22-30 AWG stranded wire
- latch that will get engaged with the existing RotaConnectTM with pegs for locking purpose.
- Hermaphroditic: mates with RotaConnect peg version
- Contact System: dual beam spring contact
- Pitch: 3.00mm
- RoHS compliance

### Specifications

- Product Spec.          : TBD

### Performance Characteristics

- Durability: max 20 mating cycles
- Current Rating: up to 5A
- Operating Temperature: -40°C up to +125°C

### Materials

- Housing Thermoplastic Polymer, UL94 V0; natural color
- Plating: GXT

# Rotaconnect® Wire–To–Board

## Feature & Benefits

| Features | Benefits |
|---|---|
| Reliable dual beam contact | Connection Reliability |
| Receptacle contact will guide itself into the center of the hole | Self-guided features prevent mis-mating and assure correct counterpart positioning |
| Pins are protected by housing | Prevents pin damage during connector mating |
| Latch on Wire to Board connector Housing | Positive  latching |
| RoHS compliance | Meet environmental, health and safety requirements |

# Rotaconnect® Wire–To–Board

## Part Numbers

| Part number | Description | Packaging |
|---|---|---|
| 10120045-K04LF | 4 Position WtB Housing and Lock kit | Bulk |
| 10120045-K02LF | 2 Position WtB Housing and Lock kit | Bulk |
| 10120045-P01LF | CTW Plug terminal | Loose piece |
| 10120045-R01LF | CTW Receptacle terminal | Loose piece |

# Rotaconnect® Wire–To–Board

## Applications

- Lighting (Luminaires, signages, displays, etc)

- Control Boards

- Sensors

- Rigid LED Strips

- Automotive Electronics

# THANK YOU