



**THE DATASHEET OF  
10120045-200LF**



# Rotaconnect® Rotatable Board-to-Board Connector

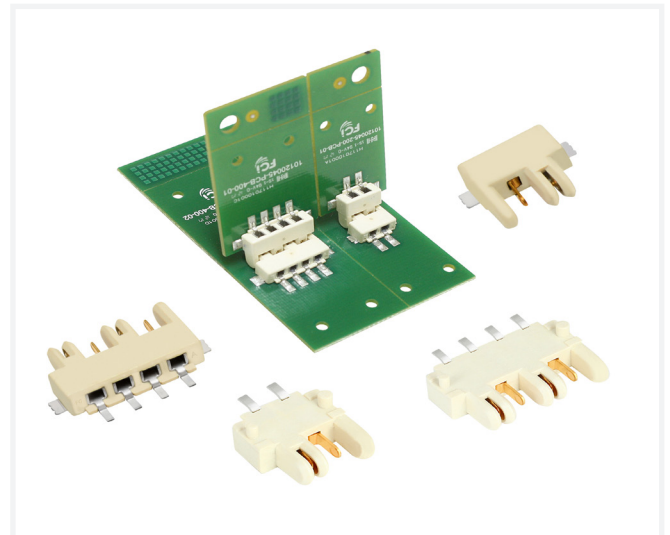
Amphenol extends the RotaConnect® Board-to-Board (BTB) range with a pegged version. The locating pegs aid simple placement. This eliminates the hold-down and hence will help customer save the space between connectors on the PCB.

The RotaConnect® BTB range is a unique rotatable Board-to-Board SMT connector that can be used to support perpendicular, coplanar and angled connections, in multiple mating and unmating directions.

The hermaphroditic “mates to itself” design enables mating at any angle between +90° and -60°, enabling the connectors to be placed anywhere on the PCB. This design allows the use of a single part number which will comprise both male and female contacts.

The high temperature grade housing material is reflow solder compatible. Tape and reel packaging permits vacuum pick and place application.

With this extension, Amphenol’s RotaConnect® BTB range offers 2 , 4 and 6 positions.



## TARGET MARKETS



## FEATURES

- Hermaphroditic “mates to itself” design
- Mates under any angle +90° and -60°
- Header contact contains a coined hole, the center of the hole is the intended rotation point
- Reliable dual beam contact
- Receptacle contact will guide itself into the center of the hole
- Pins are protected by housing
- Hold-down option
- Locating peg option

## BENEFITS

- Eliminates the need for both a header and receptacle for Board-to-Board applications
- Angled connection is not an issue, as connectors can be placed anywhere on the PCB
- Connection Reliability
- Self-guided features prevent mis-mating and assure correct counterpart positioning
- Prevents pin damage during connector mating
- Better retention onto the PCB
- Simplify positioning even in manual assembly condition

## TECHNICAL INFORMATION

### MATERIAL

- Housing: High-temperature thermoplastic UL94V-0
- Contact: Copper Alloy
- Plating: GXT®

### MECHANICAL PERFORMANCE

- Durability: ≤ 20 mating cycles
- Mating Angle: Between +90° and -60°

### ELECTRICAL PERFORMANCE

- Current Rating: Up to 5A
- Operating Voltage: 125V

### PACKAGING

- Tape & Reel

### APPROVALS AND CERTIFICATIONS

- UL E66906

### SPECIFICATION

- Test specifications EIA 364 / IEC test methods

### ENVIRONMENTAL

- Operating Temperature Range: -40°C to +125°C

### TARGET MARKETS/APPLICATIONS



Control Boards  
Sensors, Actuators  
Rigid LED Strips  
Automotive Lighting  
Channel Lettering  
Lighting Luminaries



## PART NUMBERS

Description	No. of Contacts	Termination	Contact Type	Part Number
2 Position Hermaphroditic Rotatable Board-To-Board Connector	2	SMT	1 Male, 1 Female	10120045-200LF
2 Position Hermaphroditic Rotatable Board-To-Board Connector with Locating Pegs	2	SMT	1 Male, 1 Female	10120045-201LF
4 Position Hermaphroditic Rotatable Board-To-Board Connector	4	SMT	2 Male, 2 Female	10120045-400LF
4 Position Hermaphroditic Rotatable Board-To-Board Connector with Locating Pegs	4	SMT	2 Male, 2 Female	10120045-401LF
6 Position Hermaphroditic Rotatable Board-To-Board Connector	6	SMT	3 Male, 3 Female	10120045-600LF

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View 10120045-200LF on WIN SOURCE](#)
-  [Amphenol FCI Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management