Minitek® 2.00mm Blind Mate Interface (BMI) Connectors

ROBUST AND VERSATILE SELF-ALIGNING CONNECTOR

Minitek® 2.00mm Blind Mate Interface (BMI) is a flexible and comprehensive solution designed for application with a current rating up to 2A per circuit. It allows misalignment and provides floating for easy blind mate connections. BMI option is available in dual row with 8 or 12 circuits. These connectors provide an ideal solution for panel-to-board applications.

- Fixed or floating mounting possible
- Fully isolated receptacle to prevent terminals from damage
- Polarized mating geometry to prevent mismatching
- Passive locking to secure mating operation

TARGET MARKETS

FEATURES

- Blind mate interface
- Floating receptacle option available
- Passive locking on housing with low thumb latch operation
- Fully polarized housings
- Scoop-proof housings
- Available in through hole, PIP and SMT as option
- Existing crimp section and automated crimp tooling from 30AWG to 22AWG
- Glow wire compliant
- UL flammability
- RoHS compliant, halogen free and lead–free

BENEFITS

- Allows ±2.00mm catching for blind mating
- Allows ±1.00mm misalignment in x and y axes
- Ensure secured mating retention
- Prevents accidental mismating
- Ensure terminals and header pins are not damaged from misuse
- Compatible with multiple manufacturing processes
- No specific industrial tools required
- Complies with International Standard IEC 60335–1 for household appliances
- Better safety
- Meets environmental, health and safety requirements
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TECHNICAL INFORMATION

MATERIAL
- Header Housing: High temperature thermoplastic, natural
- Receptacle Housing: High temperature thermoplastic, black
- Crimping Terminal: Copper alloy
- Plating: Gold/GXT on the contact area, tin on tail, nickel under layer

MECHANICAL PERFORMANCE
- Catching: ±2mm in x and y axes
- Misalignment with Floating Option: ±1mm or 15° in x and y axes, ±0.3mm in z axis
- Terminal Insertion Force: 2N max. per contact
- Durability: 100 mating cycles for gold plating

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

PACKAGING
- Header: Tube packaging / Tape & Reel
- Receptacle: Bag
- Terminal: Reel

TOOLING INFORMATION
- 30AWG to 26AWG: Hand tool RCY21151W, Mini Application RCY20010
- 24AWG to 22AWG: Hand tool RCY21153W, Mini Application RCY20036

ELECTRICAL PERFORMANCE
- Low Level Contact Resistance: 20mΩ max.
- Insulation Resistance: 1000mΩ min.
- Voltage Rating: 200Vrms
- Current Rating: 2A per contact
- Dielectric Withstanding Voltage: 650V AC
- Temperature Rise: 30°C max.

APPROVALS AND CERTIFICATION
- Glow Wire Ignition Temperature (GWIT) per IEC 60695–2–13
- Glow Wire Flammability Index (GWFI) per IEC 60695–2–12
- UL & CSA

SPECIFICATION
- Amphenol Product Specification: GS–12–1470

TARGET MARKETS/APPLICATIONS

- Data
- Industrial
- Medical
### Minitek® 2.00mm Blind Mate Interface (BMI) Connectors

#### PART NUMBERS

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Minitek® 2.00mm BMI Floating Receptacle, Dual Row (2x4), 8 positions</td>
<td>10148136–008LF</td>
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