Minitek MicroSpace™ Crimp-To-Wire Connector Platform

COMPACT, ROBUST AND VERSATILE CONNECTOR SYSTEM

Minitek MicroSpace™ Crimp-to-Wire connector platform’s unique design enables LV214 Severity-2 and performs at 1.80mm, 1.50mm and 1.27mm pitch. Minitek MicroSpace™ will be available in single and double row versions, with top and side latch configuration.

- LV214 Severity-2 Compatible
- Keying to prevent visual mismatching
- Terminal Positioning Assurance (TPA)
- Primary and secondary contact retention
- Connector Positioning Assurance (CPA)

TARGET MARKETS

FEATURES

- Design based on existing and proven design controls
- Existing crimp section and automated crimp tooling up to 22AWG
- 4N normal force for vibration and >75N connector locking strength
- Poka yoke polarization
- Terminal Positioning Assurance (TPA)
- Current rating up to 4A per contact
- Connector Positioning Assurance (CPA)
- Low insertion force terminal available

BENEFITS

- Suitable for harsh environments
- No specific industrial tools required
- High vibration and locking resistance
- Visual mismatching prevention system
- Ensures proper terminal insertion position and retention
- Meets higher power performance requirements
- Assures that connectors are properly mated and locked together
- Makes it easier to mate with receptacle
# TECHNICAL INFORMATION

## MATERIAL
- Contact for Board Header Connector:
  High Current Alloy with optional Tin and Gold/GXT plating
- Housing: High temperature thermoplastic, UL94V-0
- Crimping Terminal: High Current Alloy with optional Tin and Gold/GXT plating

## MECHANICAL PERFORMANCE
- Terminal Insertion Force/Terminal: <3N
- <2N low insertion force terminal available upon request
- Terminal Retention into Housing: >50N
- Durability: 20 mating cycles for Sn; 100 mating cycles for Au/GXT
- Wire Pullout Force for 0.35qmm: >50N min.

## APPROVALS AND CERTIFICATIONS
- LV214 – Severity 2 Compatible

## PACKAGING
- PCB Header: Tape & Reel
- Receptacle Housing: Bag
- Terminal: Reel

## ELECTRICAL PERFORMANCE
- Low Level Contact Resistance: <30mΩ
- Insulation Resistance: >100MΩ
- Voltage Rating: 48V
- Current Rating: 4A
- Dielectric Withstanding Voltage: 500VAC
- Temperature Rise: 30ºC max.

## ENVIRONMENTAL
- Operating Temperature: -40ºC to +130ºC

## TARGET MARKETS/APPLICATIONS
- Camera/Sensor
- Cluster/Navigation
- HVAC
- Headliner
- Lighting
- Power Steering
- Radio/ DVD
- Lighting

## PART NUMBERS

<table>
<thead>
<tr>
<th>Description</th>
<th>Configuration</th>
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<tbody>
<tr>
<td>Pitch</td>
<td>Versions</td>
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<tr>
<td>1.27mm</td>
<td>Staggered</td>
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<td></td>
<td></td>
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<tr>
<td>1.50mm</td>
<td>Single Row</td>
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<tr>
<td>1.80mm</td>
<td>Single Row</td>
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*denotes base part number. Please contact Amphenol ICC for complete part numbers.