

Delphi Micro64

Connection Systems

Description – Delphi's Micro64 is a compact electrical connection system designed for low-energy, high-density applications. Micro64 offers superior sealing performance, high current capacity, a robust mating pin design. Micro64 features a labor-saving, non-orienting, tangless female terminal. The terminal mates to either round or square pins, allowing versatility in application and overall lower installed assembly and inventory costs.

Typical Applications –

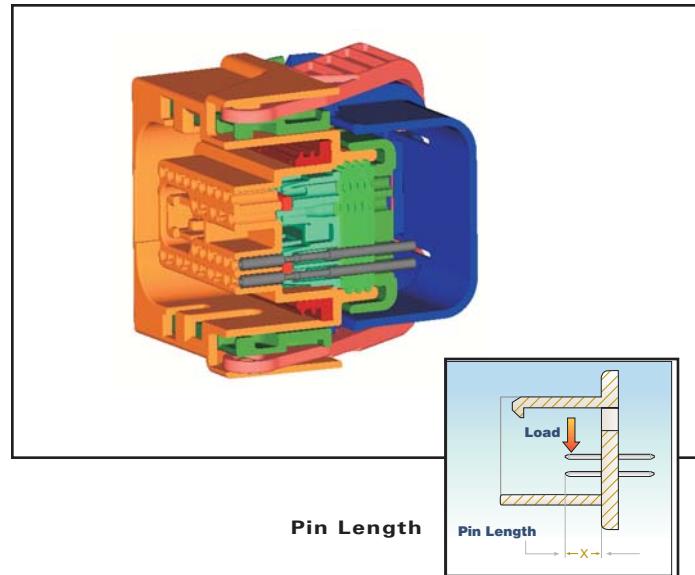
- Automotive and commercial vehicles
- Engine management systems
- Powertrain control systems
- ABS braking systems
- Airbag systems

Sealing Performance –

- Molded silicone rubber cable and connector seal
- Ribbed self-lubricating design
- Validated to USCAR underhood specifications
- Eliminates potential interface contamination
- Improved reworkability and repairability
- Competitive products use gel seals

Mating Pin Design –

- Shorter Pin Length – Micro64 mates to both 7.5 mm and 5.5 mm pins
- Pins designed to USCAR compliance standards
- Optimum Design – Micro64 offers design flexibility and a more robust product



Features	Benefits
Mates to both round and square pins	<ul style="list-style-type: none"> – Versatility – Lower installed cost
Mates to three lead sizes	<ul style="list-style-type: none"> – Easily integrates into applications
USCAR compliant	<ul style="list-style-type: none"> – Intermateability – Interchangeability – Industry standard design and specifications
Hand-mateable connections; mechanical assist systems available for improved alignment	<ul style="list-style-type: none"> – Provides ergonomic assembly and efficient installation
Standard tin-plated interfaces	<ul style="list-style-type: none"> – Cost-effective
Optional gold-plated interfaces	<ul style="list-style-type: none"> – Enhances reliability for specific applications
Connector position assist available upon request	<ul style="list-style-type: none"> – Superior connection reliability
Non-orienting round female terminals	<ul style="list-style-type: none"> – Provides time savings in wire plugging stage

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www.delphi.com/connect

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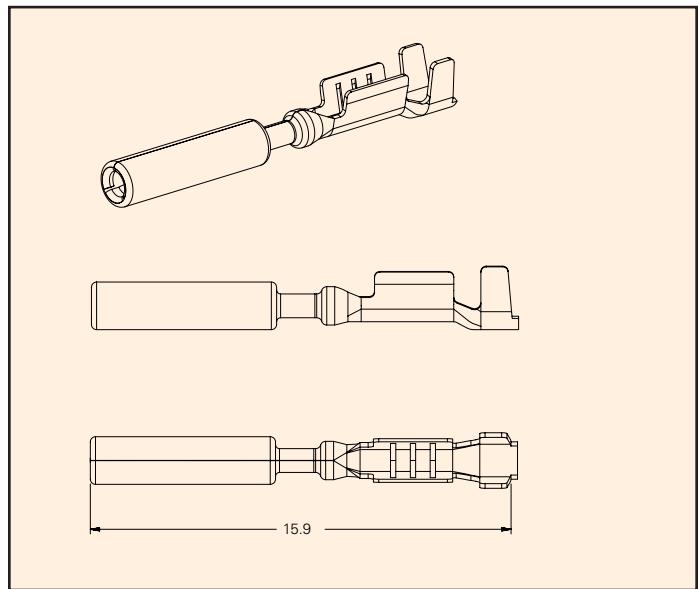
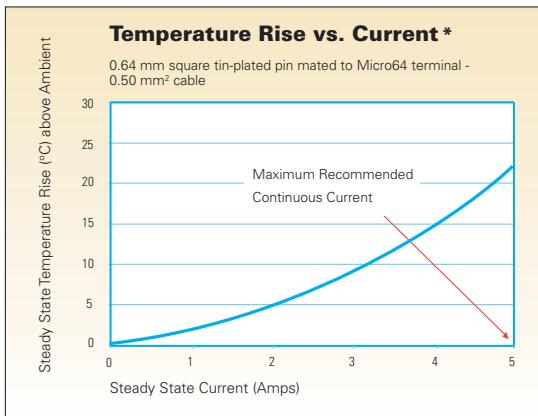
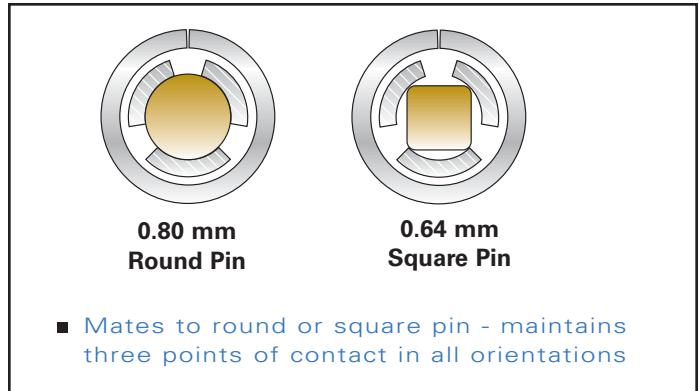
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Non-Oriented Female Terminal

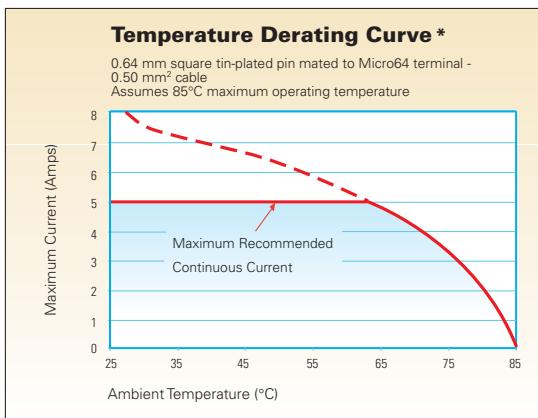
- Reduces assembly labor: takes less time to plug than oriented terminals
- Built-in error-proofing for robust assembly
- System design developed to facilitate assembly and verification via a structured DFM process

High Current Capability (Gold Interface)

- 7 amps continuous duty -
 - Derated for ambient temperatures above 95°C
 - Competitive products limited to 6 amps
- Tin interface rated at 5 amps @ 85°C max.



Dimensions shown in millimeters.



* Temperature rise and derating curves represent Delphi 064 series header connectors mated to Delphi Micro64 female connectors.

Female Terminal Application Guidelines

- Typical Cable Applications 0.35 mm² - 0.50 mm² TWP (SAE J-1128)
0.75 mm² FLRY-A (DIN 72551)
0.80 mm² TXL Reduced Wall (SAE J-1128)
- Current Range 0 - 5 amps
- Temperature Range -40°C to +85°C
- Resistance <20 mΩ @ 20 mV
- Voltage Drop <20 mV/amp
- Centerline Spacing 2.54 mm (terminal-to-terminal and row-to-row)
- Mating Pin 0.64 mm square, tin-plated
0.64 mm square, gold-plated
0.80 mm round, gold-plated