

# 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 –

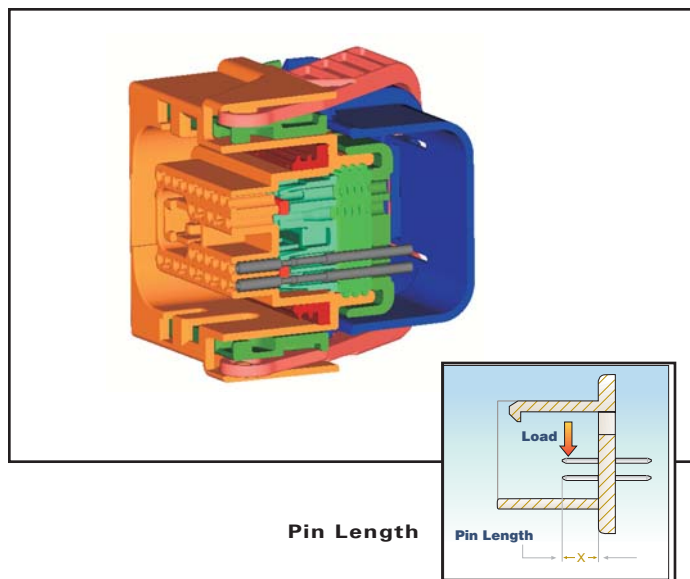
- Automotive and commercial vehicles
- Engine management systems
- Powertrain control systems
- ABS braking systems
- Airbag systems

## 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	– Versatility – Lower installed cost
Mates to three lead sizes	– Easily integrates into applications
USCAR compliant	– Intermateability – Interchangeability – Industry standard design and specifications
Hand-mateable connections; mechanical assist systems available for improved alignment	– Provides ergonomic assembly and efficient installation
Standard tin-plated interfaces	– Cost-effective
Optional gold-plated interfaces	– Enhances reliability for specific applications
Connector position assist available upon request	– Superior connection reliability
Non-orienting round female terminals	– Provides time savings in wire plugging stage

# DELPHI

[www.delphi.com/connect](http://www.delphi.com/connect)

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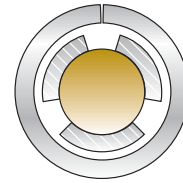
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## Non-Oriented Female Terminal

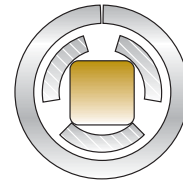
- Reduces assembly labor: takes less time to plug than oriented terminals
- Built-in error-proofing for robust assembly
- System design developed to facilitate assembly and verification via a structured DFM process

## 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.

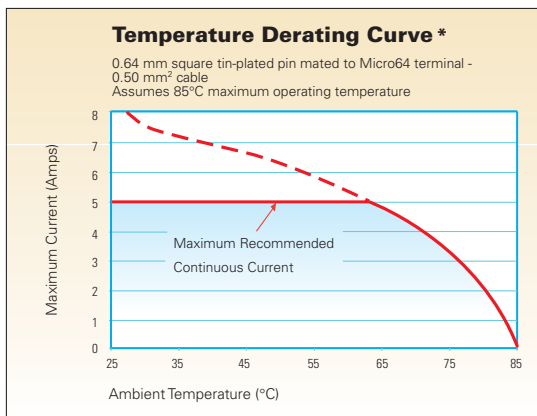
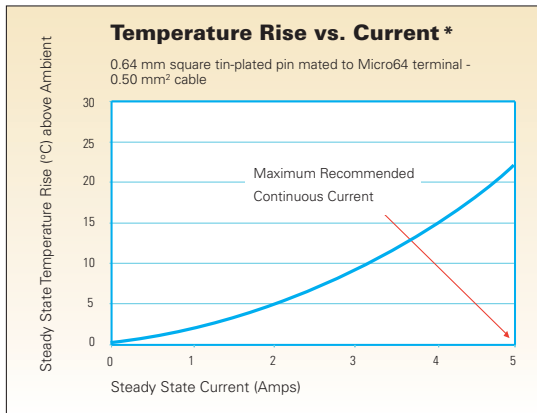


**0.80 mm  
Round Pin**

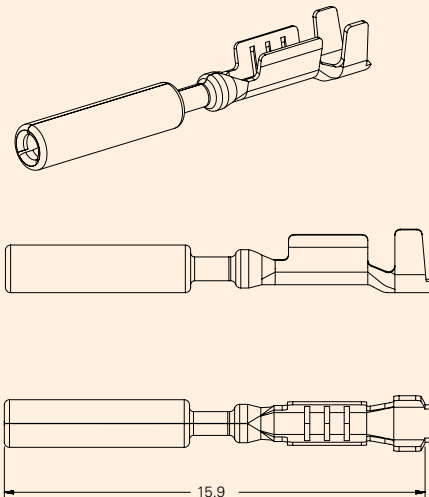


**0.64 mm  
Square Pin**

- Mates to round or square pin - maintains three points of contact in all orientations



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



Dimensions shown in millimeters.

## Female Terminal Application Guidelines

- Typical Cable Applications . . . . 0.35 mm<sup>2</sup> - 0.50 mm<sup>2</sup> TWP (SAE J-1128)  
 . . . . 0.75 mm<sup>2</sup> FLRY-A (DIN 72551)  
 . . . . 0.80 mm<sup>2</sup> 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