

Micro-Pack Connection Systems

Description:

Micro-Pack is a family of electronic connection systems designed to meet the needs of low energy (<5 amps), high density applications. These systems can be packaged as headers or in-lines and are available unsealed or sealed. Filtered or shielded systems are available for protection against electromagnetic interference (EMI).

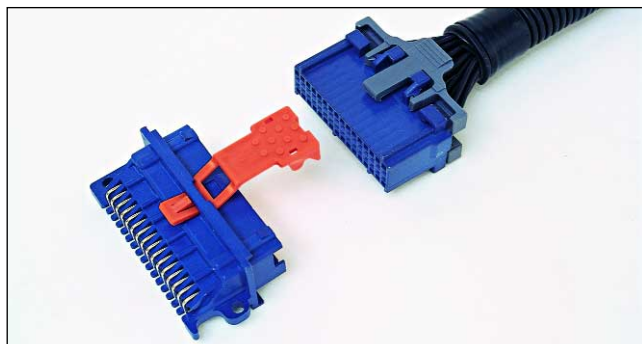
A 1mm male pin is used in both the 100 Series (unsealed) and 100W Series (sealed) systems. The 100 Series female terminal utilizes a box design with four contact points, while the 100W Series female employs a sleeve configuration.

Typical Application:

Delphi's extensive Micro-Pack line is used in a wide variety of applications in the automotive, processing and industrial control, farming, marine and off-road vehicle markets. Header connections are available in both straight and 90-degree mountings with the ability to mount to flexible or hardboard circuits. Micro-Pack in-lines are ideally suited for applications where space is limited.

Performance Advantages:

Micro-Pack's high circuit density enables many electronic signals to be accommodated in one space saving connector. Mechanical assist and bolt-together designs enable ergonomic assembly and disassembly of larger connections. The reliable 100W environmentally sealed systems are designed to help withstand many combinations of elements including temperature extremes, moisture, engine compartment fluids and mechanical shock and vibration. Micro-Packs offer an improved 1 piece (vs. 2 piece) female terminal for sealed applications.



100 Series (Unsealed) Features

- Connector Position Assurance (CPA)
- Terminal Position Assurance (TPA)
- 5 amps continuous maximum current rating
- Four contact female terminal configuration for excellent interface
- Small overall dimensions
- High circuit density
- Low energy, low voltage capability
- -40°C to 85°C temperature range

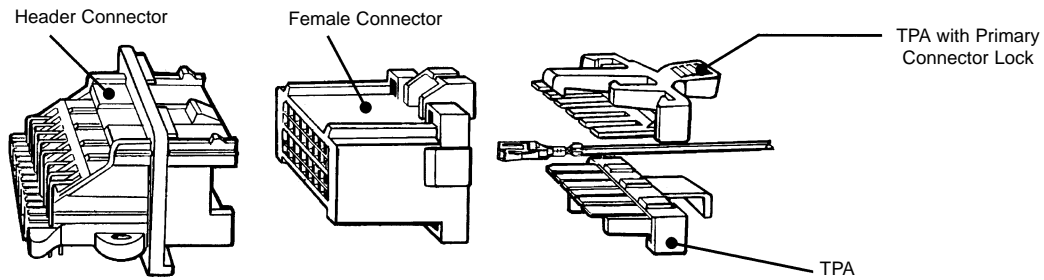


100W Series (Sealed) Features

- Triple-rib peripheral environmental seals
- Low profile, high density design
- Low power as well as signal level applications
- Connector Position Assurance (CPA)
- Terminal Position Assurance (TPA)
- Protected male pins
- Robust female terminals
- Wiring strain relief
- -40°C to 125°C temperature range

Micro-Pack Connection Systems

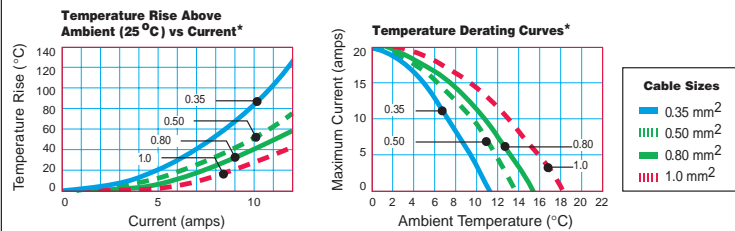
100 Series (Unsealed)



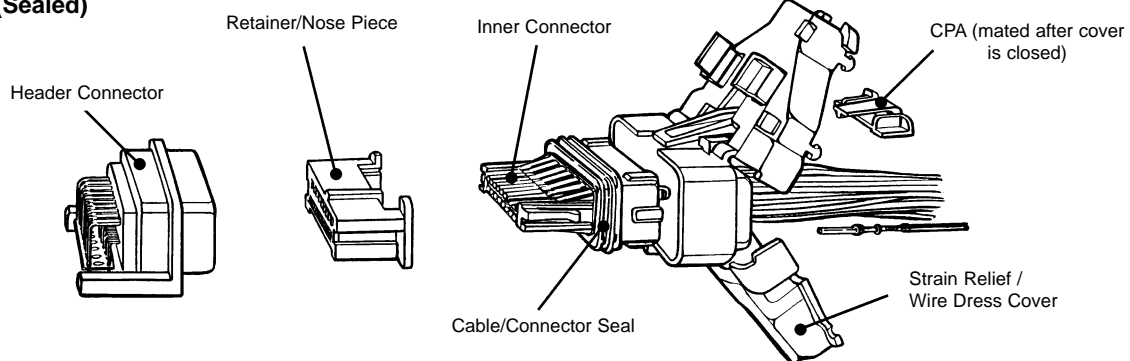
100 Series Application Guidelines

Cable Range (mm ²)	.....0.35 – 1.0
Current Range (amps)	.....0 – 5
Temperature Range (°C)	.....-40 to 85
Resistance	.....<10mΩ @ 20mV
Voltage Drop	.....<10.0mV/amp
Centerline Spacing (mm)	.....3.0
Terminal Diameter (mm)	.....1.0

Micro-Pack 100 Terminals - Tin Plated



100W Series (Sealed)

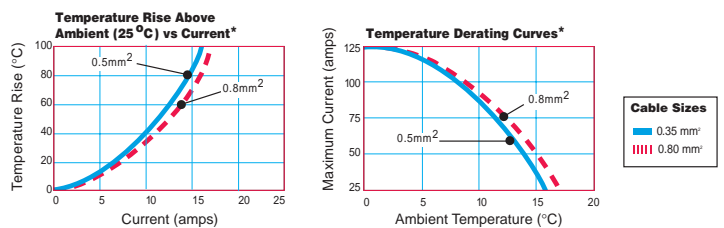


NOTE: Sealing shroud and locking feature for connector assembly must be designed into mating device housing.

100W Series Application Guidelines

Cable Range (mm ²)	.....0.35 – 0.8
Current Range (amps)	.....0 – 7.5
Temperature Range (°C)	.....-40 to 125
Resistance	.....<10mΩ @ 20mV
Voltage Drop	.....<10.0mV/amp
Centerline Spacing (mm)	.....3.5
Terminal Diameter (mm)	.....1.0

Micro-Pack 100W Terminals - Gold Plated



* The test data is based on single circuits in free space and was generated using a "Lumped Resistance" model. The data presented here does not account for all variables that would be present in an actual application. Delphi Engineering can model customers' specific applications upon request. For additional detailed product performance, contact 1-800-PACKARD or visit our website at www.delphiconnect.com.

DELPHI

Connection Systems

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