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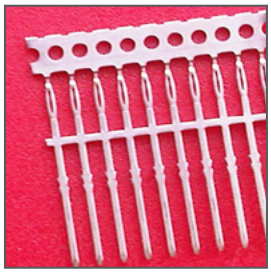
EON Compliant Pin Technology

CUSTOM EON Compliant Pin Technology

Achieve significant application and PCB-assembly cost savings with EON Compliant-Pin Technology, ideal for OEM and Tier 1 automobile-device makers who need to meet stringent manufacturing requirements as well as global environment initiatives

Features and Benefits

Press-fit operation	Provides superior reliability, eliminates thermal stress, solder slugs and cold spots. Delivers considerable cost savings over selective soldering
Eye-of-needle (EON) technology	Expedites and simplifies PCB setup and mounting. Uses less PCB real estate and reduces PCB hole deformation
Proprietary C51000- or C19010-grade alloy material	Enables consistent production of high-performance, high-reliability, highly cost-effective products using lead-free processes
Gas-tight interface	Eliminates plating corrosion
Variety of blade width sizes (0.50, 0.64 and 1.50mm)	Boosts design flexibility with pins that interface with 1.00, 1.45 and 1.80mm PCB holes
Minimum retention force of 20N	Ensures maintenance of strong electrical contact in a wide range of conditions
Low insertion force	Minimizes damage to PCB during assembly



Eye-of-Needle (EON) 050 Press-Fit Pins

Applications

Automotive

- Powertrain
- Comfort, Infotainment and Driver Assist
- Body Electronics
- Safety/Chassis
- In-Vehicle Networking

Commercial Vehicles

- Interior Electronic Modules
- Body Electronic Modules

Car Infotainment Systems

Car Navigation Systems

Car Interior Lighting, Instrument Panel Clusters, and Door Zone Modules

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Additional Technical Details

Press-Fit Material Thickness (mm)	Nominal PCB Hole Size (mm)	Mating Blade Width (mm)
0.40	0.60	0.50
0.62	1.00	0.64/1.20
0.80	1.45	1.50/2.80

Specifications

Insertion Force (max.):
- 0.64mm Thickness: 97 N
- 0.80mm Thickness: 177 N

Withdrawal Force (min.):
- 0.64mm Thickness: 20 N
- 0.80mm Thickness: 62 N

Contact Resistance (max.): 1 mΩ
Sine on Random Vibration in
- Temperature: 130.5

Thermal Shock: 1000 cycles at
- -40 to +150°C for 30 minutes

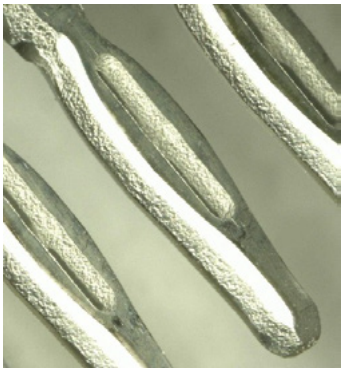
High Temperature Exposure:
- +150°C for 1008 hours

Ordering Information

Custom Product	Description
Contact Molex	Eye-of-Needle (EON) 050 Press-Fit Pins

Additional Product Features

Dimensional and design comparison of EON 050 Press-Fit Pins and EON 064 Press-Fit Pins

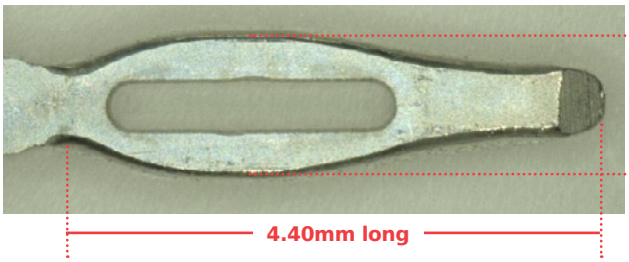


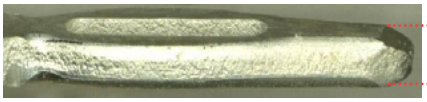
064 Press-Fit Pin

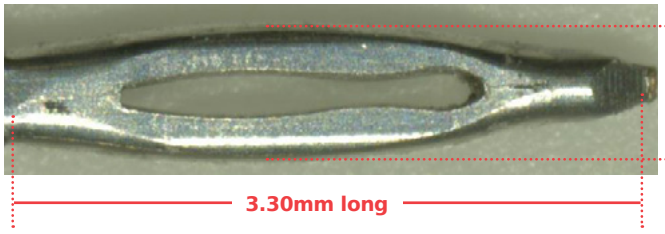
064 Press-Fit Pin

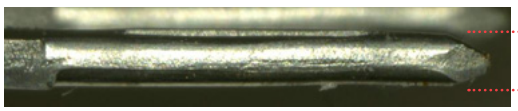
050 Press-Fit Pin

050 Press-Fit Pin









www.molex.com/link/EONcompliantpin.html