DATASHEET

VersaPower Connectors ›

Featuring a fine 0.30mm pitch and a compact mated height of only 0.60mm, VersaPower is a next-generation embedded connector system engineered to meet the demanding needs of modern electronics. VersaPower Connectors increase ease of assembly, improving manufacturing efficiency and product quality. These connectors also offer compact sizes with robust mechanical and electrical reliability, which is essential for space-constrained and high-density electronic assemblies.

ADVANTAGES AND FEATURES

Enhances electrical conductivity
The lower resistance of these connectors minimizes energy loss by reducing heat generation.

Improves manufacturing efficiency and product quality
The larger alignment features of the connectors simplify assembly and maintenance, reducing downtime and production costs.

Helps maintain stable performance in high-current and high-power environments
The connectors are designed to handle currents up to 15.0A, which prevents overheating and failures due to excessive current flow.

Current (max.)	15.0A
Number of Circuits	20 to 80
Pitch	0.30mm
Voltage (max.)	50V

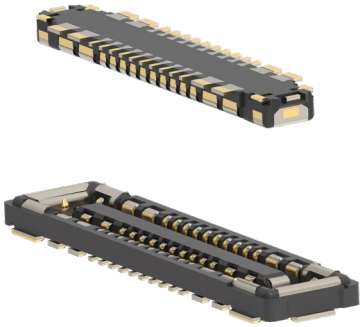
Delivers high mechanical reliability
The robust design of the connectors helps withstand shocks and vibrations, reducing the risk of failures.

Enables miniaturization of devices
The compact design of the connectors allows designers to fit them into small spaces, which helps save space in portable applications.

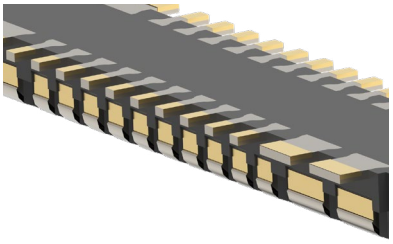
Improves product lifespan under harsh conditions
The high durability and environmental resistance of the connectors help withstand extreme temperatures, moisture and corrosion.

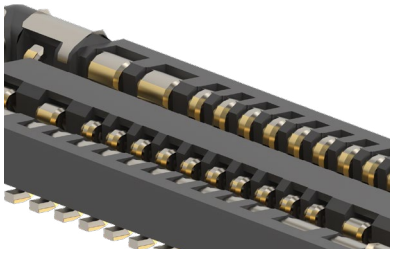
Receptacle

Plug



Un-Mated





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MARKETS AND APPLICATIONS

Appliances
Refrigerators
TVs
Washing machines

Automotive
Advanced driver assistance systems
Car infotainment systems
Engine control units

Industrial automation
Factory automation equipment
Robotic arms

Medtech
Diagnostic equipment
Patient-monitoring devices

Refrigerators

Car Infotainment Systems

Robotic Arms

Mobile devices
Laptops
Personal computing devices
Smartphones
Tablets

Networking
Routers
Switches
Wireless access points

SPECIFICATIONS

Reference Information
Packaging: Embossed tape on reel
Designed in: Millimeters
RoHS: Yes
Halogen Free: Low halogen

Electrical
Voltage (max.): 50V
Current (max.):
  Signal contact—0.3A
  Power tail and nail—15.0A
Contact Resistance (max.):
  Signal contact—30 milliohms
  Power contact—15 milliohms
Insulation Resistance (min.): 100 Megohms
Dielectric Withstanding Voltage: 250V AC

Mechanical
Pitch: 0.30mm
Mated Height: 0.60mm
Width: 1.90mm
Length: [{(Circuit/2)-1} x pitch] + 5.30mm
Circuit Size: 20 to 80 pins
Durability (max.): 30 cycles
Alignment: 0.37mm (pitch) and 0.31mm (span)
Insertion Force (max.):
  Initial—32NAfter 30 times—80N
Withdrawal Force (min.):
  Initial—6NAfter 30 times—15N

Physical
Housing: LCP, UL 94 V-0, black
Contact: Copper alloy
Plating:
  Contact area—gold
  Solder tail area—gold
  Underplating—nickel
Temperature Rise (max.): 30°C
Operating Temperatures: -40 to +85°C

www.molex.com

Order No. 987652-9544 USA/0k/GF/2025.12