

EXTreme LPHPower Connectors >

Designed with power blades parallel to the PC board, EXTreme Low Profile Hybrid (LPH) Connectors are a mixed, high-current power and signal connector system that picks up where traditional connectors leave off. The recent addition of the 2 power RA receptacles/plugs to the LPH family allows customers to explore further configurations in the LPH family.

ADVANTAGES AND FEATURES

Enables customers to explore further configurations in the LPH family

The two circuit addition of the EXTreme LPH Connectors allows customers to suit their needs more accurately as it provides extra space-savings and more cost for irrelevant benefit.

Enhances system airflow and provides 127.0A per linear inch

The EXTreme LPH Connectors have a low-profile design that enhances system airflow with power contacts that are parallel to the PC board, permitting an overall connector height of 7.50mm.

Meets system power requirements

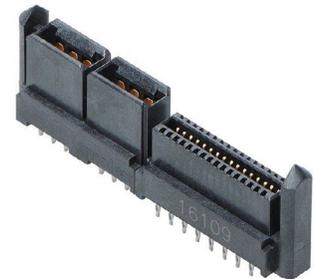
LPH receptacles mate to either LPH plug or industry standard 1.57mm card edge providing greater flexibility in multiple industries and applications.

Allows power and return signals in the same bay for a total of 60.0A per power bay

The hybrid power/signal design solution with two isolated power contacts per housing bay (top and bottom) allows power and return in the same bay to accommodate common DC power requirements.

Reduces the potential for stubbing or damage

The rugged signal and power contacts of the Hybrid Vertical Receptacle of EXTreme LPH Connectors help prevent damage.



Hybrid Vertical Receptacle



Power-Only Vertical Receptacle



Signal-Only Vertical Receptacle



Hybrid Vertical Receptacle



Hybrid Right-Angle Receptacles



Hybrid Right-Angle Plugs

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MARKETS AND APPLICATIONS

Power for Data Center

1U rack box
Backplanes
Power supplies
Routers and switches
Servers

Industrial Automation

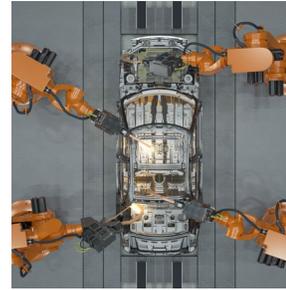
Industrial controls

Telecommunications

Test equipment
Workstations



Servers



Industrial controls



Workstations

SPECIFICATIONS

Reference Information

Packaging: Tray or tube
UL File No.: E29179
CSA File No.: LR19980
Designed In: Millimeters
EU RoHS Compliant: Yes
Halogen: Low halogen
Glow Wire Compliant: No

Mechanical

Mating Force (max. per circuit):
Power Contacts – 6.87N (1.54 lb.)
Signal Contacts – 1.08N (0.24 lb.)
Un-mating Force (min per circuit):
Power Contacts – 1.47N (0.33 lb.)
Signal Contacts – 0.15N (0.03 lb.)
Durability: 250 cycles (receptacle and plug)

Electrical

Voltage: 250V max.
Current (at 30°C temperature rise):
Power: 30.0A max.
Signal: 1.0A max.
Contact Resistance (per contact):

	Min	Max
Power (milliohms)	-0.11	0.02
Signal (milliohms)	0.35	0.47

Dielectric Withstanding Voltage: 1,500V
Insulation Resistance (Min.): 5,000 Megohms
Current interruption:
Power – 30.0A and 48V DC
Signal – 1.0A at 30V

Physical

Housing: LCP
Contact:
Power Contacts - Copper (Cu) alloy
Signal Contacts - Copper (Cu) Alloy
Plating:
Contact Area — Select Gold
Solder Tail Area — Tin
Underplating — Nickel
Flammability Rating: UL 94V-0
Operating Temperature: -40 to +105°C

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