

## FEATURES AND SPECIFICATIONS



**EXTreme LPH-Power™**  
**1.27mm (.050") /**  
**12.00mm (.475") Pitch**

**45984 Receptacle**  
**45985 Plug**



### Features

Low-profile design, 7.50mm (.295") height enhances system airflow and provides 120.0A per linear inch

Receptacle sides mates to either our standard LPH plug or an industry standard 1.57mm (0.62") PBC card edge +/- 5% board thickness

Rated for current interruption, matching true hot-plugging requirements

Rugged signal contacts reduce the potential for stubbing or damage

Two isolated power contacts per housing bay

Tested per EIA-364-1000.01

Last Mate / First Break available on both power and signal contacts

## SPECIFICATIONS

### Reference Information

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

TUV: 30683046.001

Designed In: Millimeters

### Documents\*

Sales Drawings: SD-45984-XXX  
 and SD-45985-XXX

Product Specs: PS-45984-001  
 Test Summary: TS-45984-XXX

### Electrical

Voltage: 250V max

Current (@ 30° C Temperature rise):

Power – 30.0A max.

Signal – 1.0A max.

Contact Resistance (per contact):

	Initial	Delta	End of Life
Power (milliohms) –	0.5	0.75	0.64
Signal (milliohms) –	6.24	15	8.34

Power (milliohms) – 0.5    0.75    0.64

Signal (milliohms) – 6.24    15    8.34

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 5000 Megohms min.

Current interruption:

Power – 30.0A at 48V DC

Signal – 1.0A at 30V

### Mechanical

Mating Force (per circuit nominal):

Power Contacts – 6.86N (1.54 lb)

Signal Contacts – 1.08N (0.24 lb)

Un-mating Force (per circuit minimum):

Power Contacts – 1.47N (0.33 lb)

Signal Contacts – 0.15N (0.03 lb)

Durability: 250 cycles

(Receptacle and Plug)

### Physical

Housing: LCP

Contact:

Power Contacts - Copper (Cu) Alloy

Signal Contacts – Phosphor Bronze

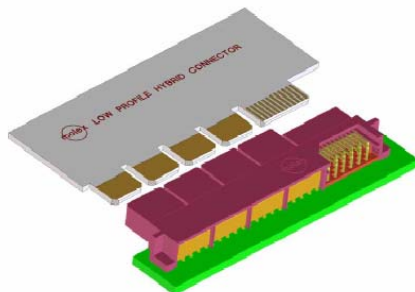
Plating:

Contact Area — Select Gold (Au)

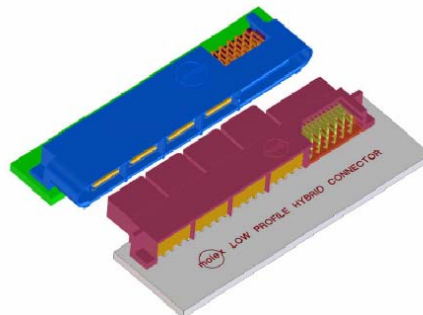
Solder Tail Area — Tin (Sn)

Underplating — Nickel (Ni)

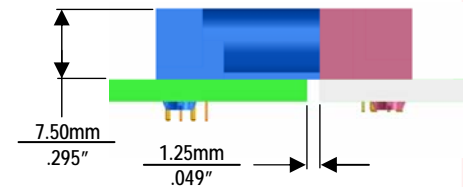
Flammability Rating: 94V-0



Edge card - to - Receptacle



Plug - to - Receptacle



Connector Height and  
 Board - to - Board Spacing

## ORDERING INFORMATION

Samples available through [www.molex.com](http://www.molex.com)

Connector Series	Power Circuit	Signal Circuit	Guide	Board Peg	PCB Thickness
Receptacle - 45984	4 to 10	12 to 40	Optional	Optional	1.57, 2.36, 6.35mm (.062, .093, .250")
Plug - 45985	4 to 10	12 to 40	Optional	Optional	1.57, 2.36, 6.35mm (.062, .093, .250")

\* All information in this document was referenced from the Sales Drawing, Product Specifications and Test Summary

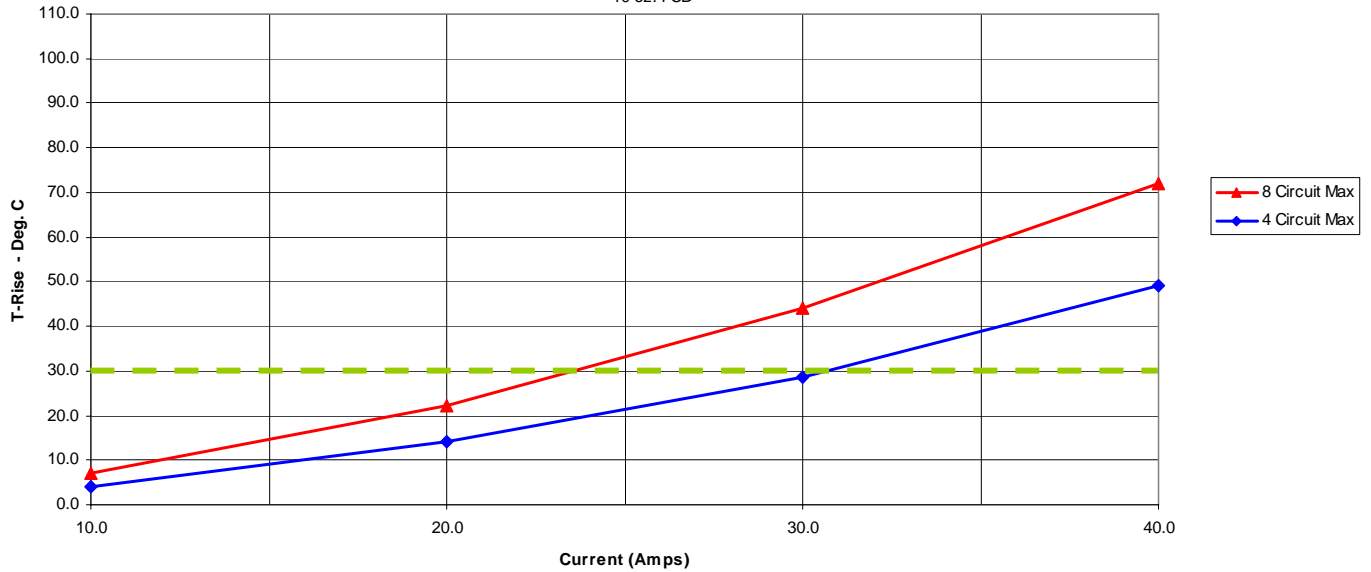


EXTreme LPH-Power™  
1.27mm (.050") /  
12.00mm (.475") Pitch

45984 Receptacle  
45985 Plug

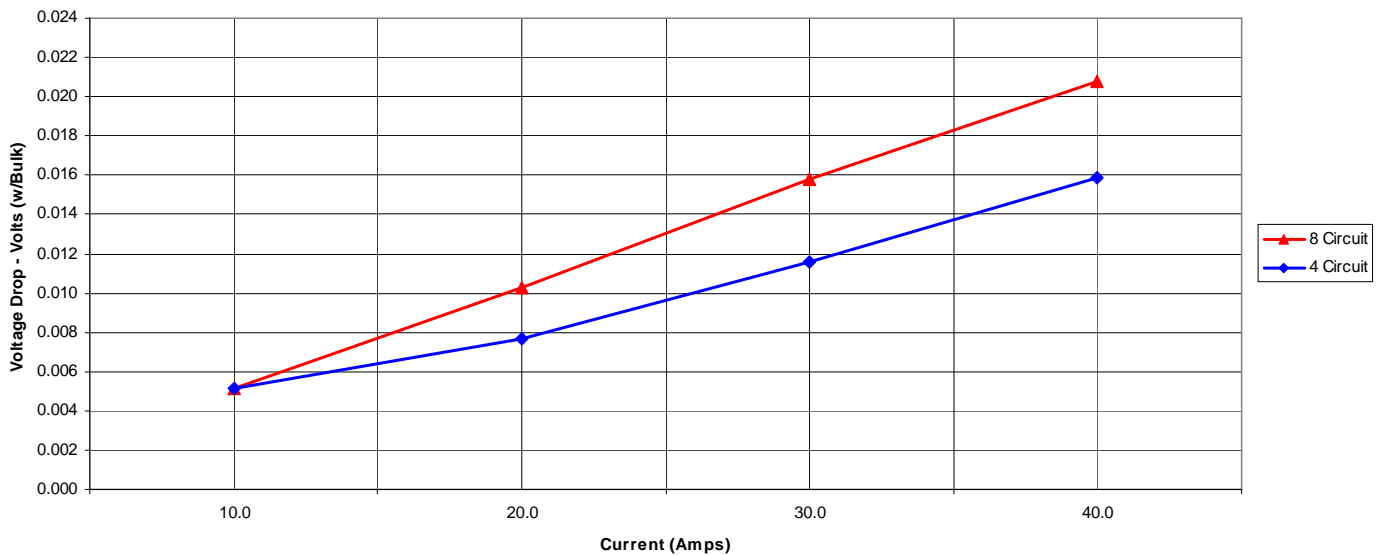
**Low Profile Hybrid**  
**Temperature Rise vs. Current**  
8 Circuit & 4 Circuit Max.

10 oz. PCB



**Low Profile Hybrid**  
**Voltage Drop Vs. Current**  
8 Circuit & 4 Circuit

10 oz. Copper PCB



Americas Headquarters  
2222 Wellington Ct.  
Lisle, Illinois 60532 USA  
1-800-78MOLEX  
amerinfo@molex.com

Asia Pacific North Headquarters  
Yamato, Kanagawa, Japan  
81-462-65-2325  
apninfo@molex.com

Asia Pacific South Headquarters  
Jurong, Singapore  
65-6-268-6868  
fesinfo@molex.com

European Headquarters  
Munich, Germany  
49-89-413092-0  
eurinfo@molex.com

Corporate Headquarters  
2222 Wellington Ct.  
Lisle, Illinois 60532 USA  
630-969-4550  
www.molex.com