

# Saf-D-Grid®

## 400V DC Power Inlet Connection



### IEC 60320 C14 Direct Replacement

- Hot Swap Rated for Safe Disconnect Under Load
  - Integral Latch Prevents Accidental Unmating
  - First Mate, Last Break Ground Contacts



PCB Mount



Solder Termination to Wire



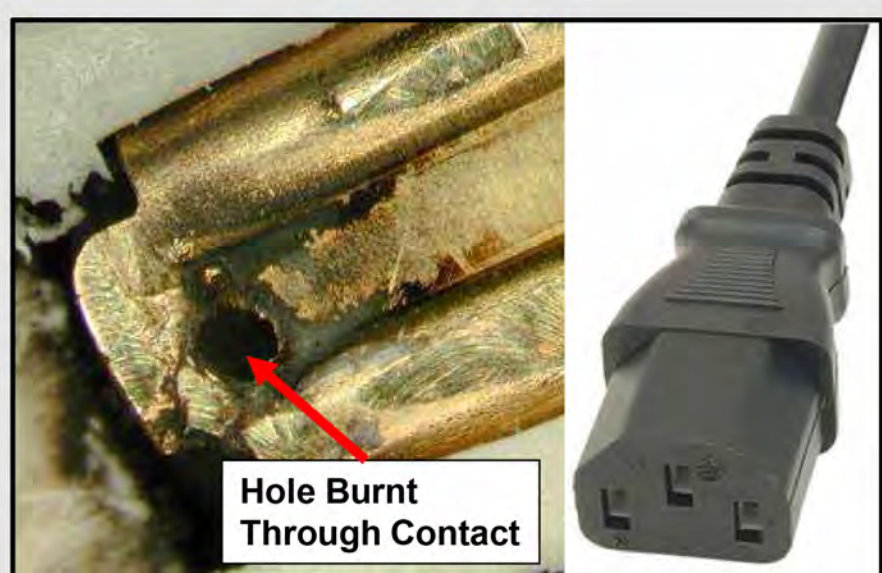
Crimp Termination



Straight Plug



Right Angle Plug



Hole Burnt Through Contact

IEC320 Connector After 250 Cycles Under Load @ 400V DC, 5A

#### Why Saf-D-Grid®?

Existing IEC 60320 Connectors Were Evaluated on 400V DC Circuit

- IEC 60320 Connectors Only Designed for AC
- Not Capable of Surviving 400V DC Arcing Damage
- Testing Resulted in a Hole Burnt Through the Primary Conductive Path of Contacts



YouTube



Scan QR Code to Launch Video

NOTE: Clear housings are used for demonstration purposes only. Arcing not visible with opaque material used in the actual product.

#### Saf-D-Grid® USER SAFETY

##### Arc Suppression & Containment

- At 400V DC, Electric Arcs Are Sustained for Short Distances
- Saf-D-Grid® Contacts Are Designed to Minimize Arcing Distances
- Housing Geometries Help Extinguish Arcing
- The Contacts Have 2X Spacing Needed to Extinguish the 400V DC Arc Before the Housings Separate

Attribute	Saf-D-Grid®	IEC320 C13/C14
Max. Amps	25A	10A
Max. Voltage	600V	250V
Max. Operating Temp	80°C, 176°F	70°C, 158°F
IEC320 C14 Size Compatible	Yes	Yes
AC Hot Plug Capable	25A, 400V	10A, 250V
DC Hot Plug Capable	25A, 400V	No
DC Arc Protection	Yes	No
Touch Safe Both Sides	Yes	No
Integral Latch	Yes	No

#### Expanded Capability



• Saf-D-Grid®

• IEC320 C13/C14



Download the Saf-D-Grid® Data Sheet



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