

SPOTLIGHT ON ELCON POWER DRAWER CONNECTORS

- Enable design flexibility with a wide variety of contact sizes and styles ranging from 1A signal to 200A power contacts
- Allow for mate-first-break-last operation with sequenced contacts



TE Connectivity's (TE) ELCON power drawer connectors feature an extensive line of hot-plug, blind-mate connectors with power and signal contacts in various sizes to meet a wide array of design requirements. This time-tested product family is well-established in the market and gives customers confidence in knowing they are using a tried-and-true solution. A robust housing design along with durable contacts provide a reliable connection for high end applications such as networking switches and servers. In applications where you want the lowest possible voltage drop across the connector, ELCON power drawer connectors' high conductivity screw-machined contacts, with either silver or gold plating, offer superior performance.

KEY BENEFITS

- Enable design flexibility with a wide variety of contact sizes and styles ranging from 1A signal to 200A power contacts
- Allow for mate-first-break-last operation with sequenced contacts
- Help ease assembly with panel-mount connectors float up to +/- 2 mm
- Meet durability requirements with products ranging from 100 to 1000 mate/un-mate cycles
- Customize products with freedom to add or remove power or signal contacts to meet specific application requirements
- Most products recognized to US and Canadian requirements under the Component Recognition program of Underwriters Laboratories File No. E28476

MATERIALS

- Housing: Polyester, 30% glass-filled, UL 94V-0 black
- Crimp contacts: High conductivity copper alloy
- PCB tails: Brass
- Crown contact inserts: Beryllium copper

APPLICATIONS

- High end power supplies
- Redundant (N + 1) power systems or shelves
- High end compute, storage, router, and switch products

MECHANICAL

- Insertion forces of individual contacts ranging from 4.7 lb. (Size #0) to 0.2 lb. (Size #20)
- Extraction forces of individual contacts ranging from 3.0 lb. (Size #0) to 0.1 lb. (Size #20)

ELECTRICAL

- Individual contact voltage drop ratings ranging from 6.3 mV at 200A (Size #0) to 1.7 mV at 5A (Size #20)
- Insulator dielectric strength = 1500 VDC for 1 minute

STANDARDS & SPECIFICATIONS

- UL File #E28476, UL 498 and 1977, CSA-22.2
- TE specifications: 108-2285 and 114-13206

LEARN MORE

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