



AUDIO  
TECHNOLOGIES®

## POWERLATCH™ CABLE CONNECTORS

Specialized AC power connectors for AVL equipment with a heavy duty locking mechanism. Used in tandem with Powerlatch™ chassis connectors.

UL Recognized and Approved Components



IO-PRC3FA

IO-PRC3FB

### SPECIFICATIONS

#### PRODUCT

Gender: **Female**

Contacts: **3**

#### ELECTRICAL

Contact Resistance:  **$\leq 3 \text{ m}\Omega$**

Insulation Resistance:  **$> 100 \text{ M}\Omega$**

Dielectric Strength: **2000V @ 60s**

Current Rating: **20 A / 250 V AC**

#### ENVIRONMENTAL

Flammability Grade: **UL94 V-0**

Standard Compliance: **IEC 61984**

Working Temperature:  **$-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$  ( $-40^{\circ}\text{F} \sim +158^{\circ}\text{F}$ )**

UL Listed (US): **E500108**

#### MECHANICAL

Lifetime:  **$> 1000$  Mating Cycles**

Cable O.D: **5.0 - 15.0mm**

Wiresize: **12 AWG (2.75mm) Max O.D.**

Wiring: **Screw Terminals**

#### MATERIAL

Contacts: **Brass**

Contact Plating: **Silver**

Shell: **PA**

Shell Finish: **Blue or Grey**

Strain Relieving Insert: **PA6**

Push Button: **Die Cast Zinc**

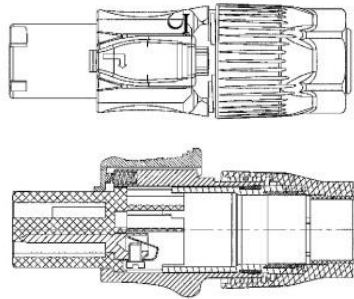
Push Button Finish: **Nickel**

Product specifications may change without prior notification

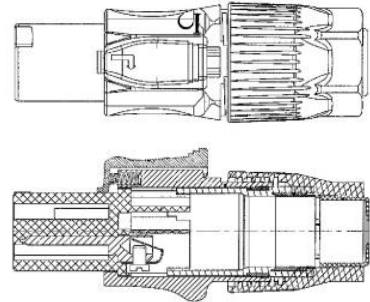
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## DRAWINGS

**IO-PRC3FA**



**IO-PRC3FB**



## FEATURES & APPLICATIONS

Powerlatch™ AC power chassis connectors are designed for single-phase AC applications and are rated for 20A at 250V AC which makes them perfect for high current applications like stage productions, lighting, or video distribution systems. As such, these connectors include several safety features to protect the user. They utilize a twist-to-lock motion in order to provide the safest connection for high current applications by virtually eliminating the possibility of accidental unplugging while protecting the user from unintentional shocks and conductor damage. The connectors are also specifically keyed and color coded for input (blue or A) and output (gray or B) to eliminate the possibility of intermating. Lastly, they feature a pre-mating ground contact to ensure the circuit is properly grounded before the rest of the conductors make a connection. Powerlatch™ chassis connectors are a perfect solution for applications where local cable standards differ, but safety must be maintained at all times. We have enhanced modularity by enabling devices to use different power cables depending on the market and application. The sturdy, locking plastic connectors offer durability that will ensure years of reliable service without interruption or fatigue even in harsh environments. The ability to install or remove them in the field means that installers and integrators can customize their use and get the job done.

NOTE: Not to be disconnected under load.

## PART NUMBER BREAKDOWN

IO-PRC3FA  
Power Connector  
IO-PRC3FA  
3 Conductor  
IO-PRC3FA  
Female  
IO-PRC3FA  
A = Blue, B = Gray  
Cable Connector

## STANDARDS & CLASSIFICATIONS



Product specifications may change without prior notification