

ComboLock® Wire-to-Board Connector System

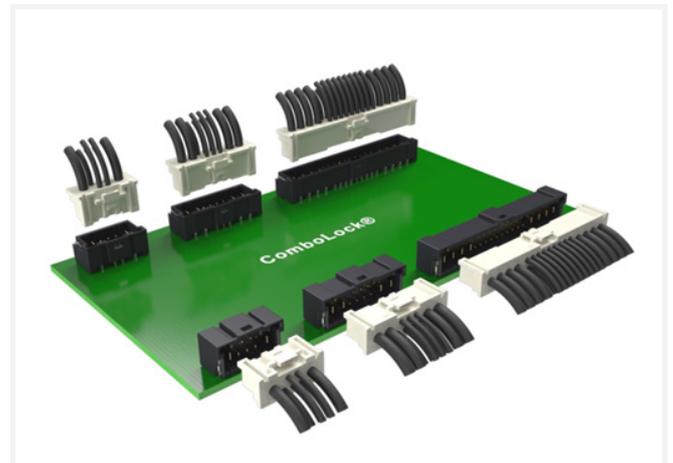
MODULAR, RELIABLE, AND COMPACT SOLUTION

The ComboLock® Wire-to-Board connector's compact design for the limited space application needs carry power and signal requirements. The connector system has hybrid 1.00mm pitch signal and 3.00mm pitch power configuration with active latching feature.

The connector has nominal current carrying capacity of 10A/pin max for power and 1.5A/pin max for signal. Power wire sizes from 26AWG to 18AWG and for signal wire sizes from 30AWG to 24AWG.

ComboLock® connector is available from 5 to 19 positions for signal pin and 2 to 8 positions for power pin in Vertical and Right-angle configuration with SMT terminations.

- Active latch
- Power and single hybrid
- Compact design for limited applications



TARGET MARKETS



FEATURES

- Housing with positive locking
- Hold down features
- Multiple wire sizes
- Hybrid current capacity
- Layout compatibility

BENEFITS

- Ensures secure mating retention
- Increase the board grip force
- Power from 26AWG to 18AWG, signal from 30AWG to 24AWG
- Up to 10A/pin max. for power and up to 1.5A/pin max. for signal pin
- Foot-print is compatible for both vertical and right angle types

TECHNICAL INFORMATION

MATERIAL

- Board Connector: PA9T
- Housing: PA66 UL 94V-0
- Crimping terminal: Phosphor bronze alloy

MECHANICAL PERFORMANCE

- Durability: 30 cycles
- Mating Force: 3N max./signal pin; 8N max./power pin
- Housing Retention Force: 9.8N min.
- Wire Sizes: 26AWG to 18AWG and 30AWG to 24AWG

ELECTRICAL PERFORMANCE

- Voltage Rating: 50V AC/DC
- Dielectric Withstand Voltage: 500VAC
- Insulation Resistance: 100MΩ
- Contact Resistance: < 40MΩ
- Current Rating: 1.5A single, 10A power

PACKAGING

- PCB Header: Tape and reel
- Receptacle Housing: Bag
- Crimping Terminal: Reel

APPROVALS & CERTIFICATION

- UL approval: Pending

SPECIFICATION

- Product Specification: GS-12-1702
- Packaging Specification: GS-14-2794
- Application Specification: GS-20-0703
- Hand Tool:
 - 10164147-001LF (Signal)
 - 10164148-001LF (Power)

ENVIRONMENTAL

- Operating Temperature: -40°C to +105°C

TARGET MARKETS/APPLICATIONS



Personal Care Devices (Air Dryer)
Home Care Devices (Cleaning Robot)
Home Automation (Alarm System)

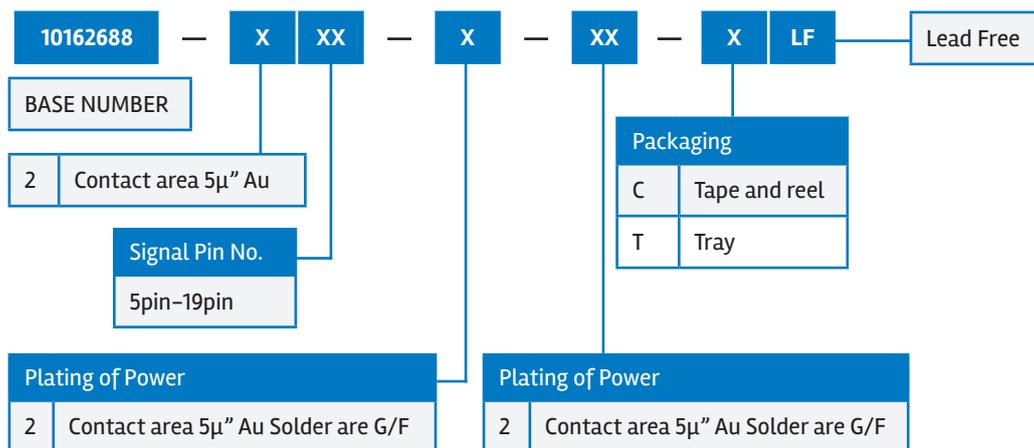


Server
Storage

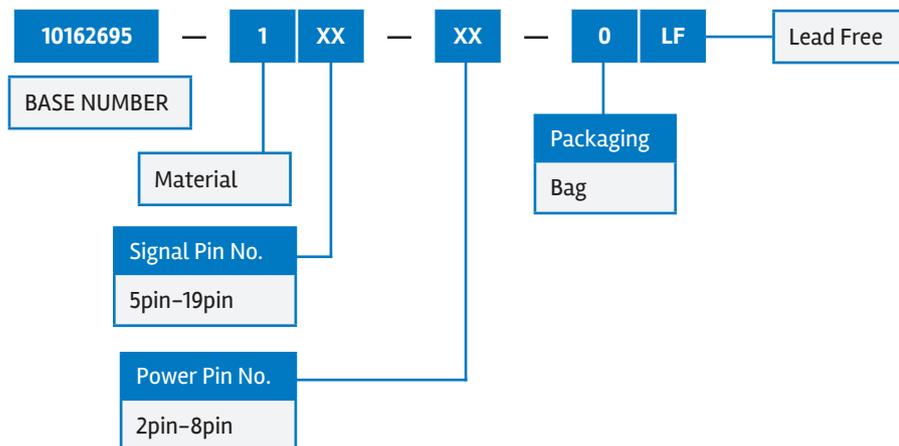


Robotics
PLC
Power tool

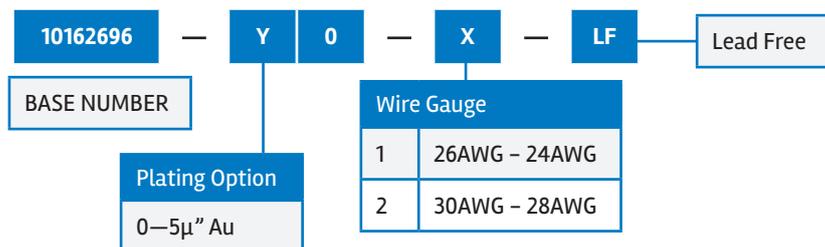
PART NUMBER SELECTOR-R/A_SMT HEADER



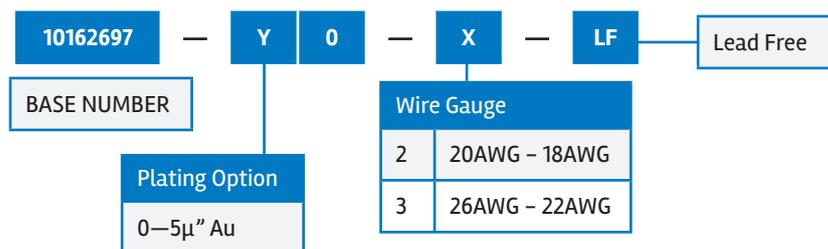
PART NUMBER SELECTOR-RECEPTACLE HOUSING



PART NUMBER SELECTOR-SIGNAL TERMINAL



PART NUMBER SELECTOR—POWER TERMINAL



HAND TOOL

10164147-001LF (Signal)

10164148-001LF (Power)