

ComboLock® Wire-to-Board Connector System

MODULAR, RELIABLE, AND COMPACT SOLUTION

ComboLock® is a compact, hybrid wire-to-board connector system that saves space, allows for simpler assembly and simpler cable management. The connector system offers a hybrid 1.00mm pitch signal and 3.00mm pitch power configuration with an 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 ranges from 26AWG to 18AWG and for signal wire sizes from 30AWG to 24AWG. ComboLock® is available from 5 to 9 positions for signal and 2 to 8 positions for power in vertical and right-angle configurations with surface mount termination.

- Active latch for secure mating
- Power and signal in one connector
- Compact design for space constraint 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
- Footprint 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: 100M Ω
- Contact Resistance: < 40M Ω
- Current Rating: 1.5A signal, 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)

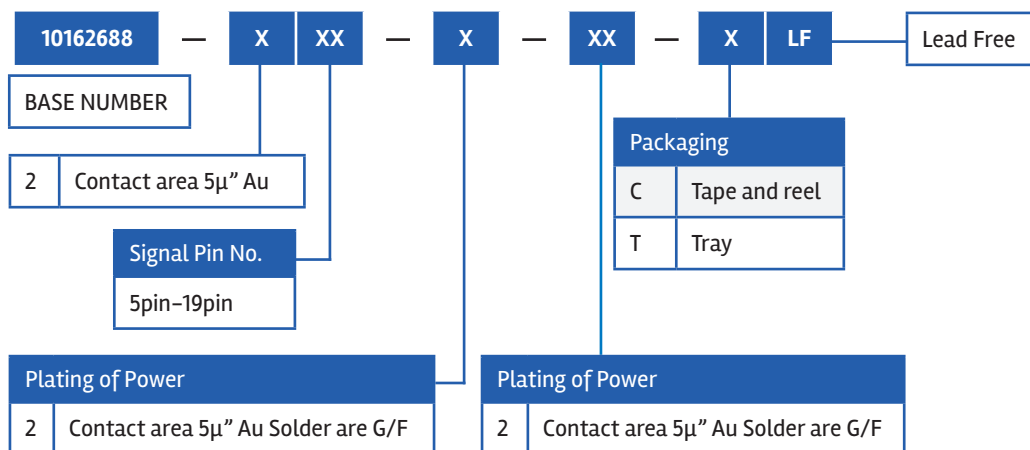


Server
Storage

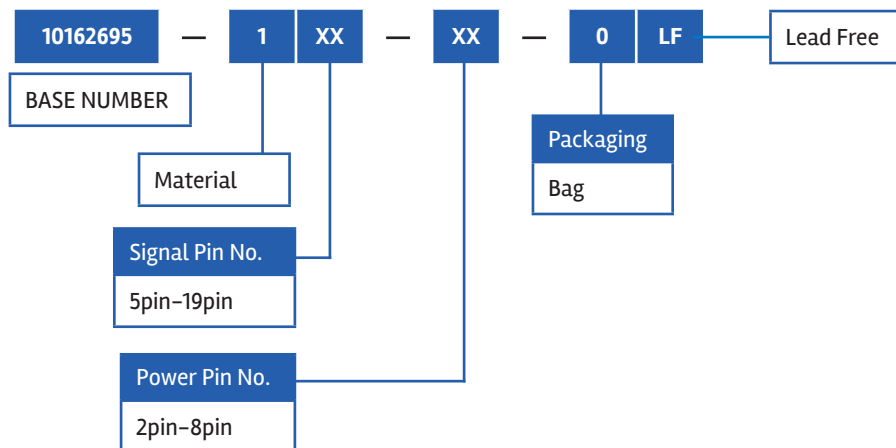


Robotics
PLC
Power tool

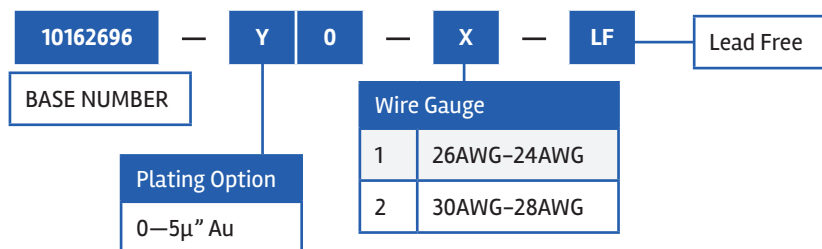
PART NUMBER SELECTOR-R/A_SMT HEADER



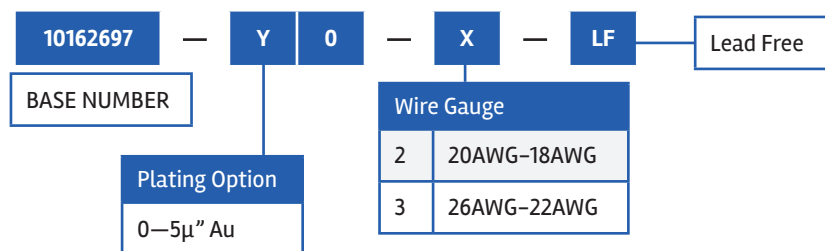
PART NUMBER SELECTOR-RECEPTACLE HOUSING



PART NUMBER SELECTOR-SIGNAL TERMINAL



PART NUMBER SELECTOR—POWER TERMINAL



HAND TOOL

10164147-001LF (Signal)

10164148-001LF (Power)