

## Minitek® Multipitch 1.25mm and 1.5mm Wire-to-Board Connector System

### MODULAR, RELIABLE, AND COMPACT SOLUTION

The Minitek® Multipitch platform connector's compact design addresses the growing demand for miniaturizing components. The connector system has single row and double row with active latching, and TPA and CPA features can be an optional.

The connector has current carrying capacity of 2A and cable external diameter from 24AWG to 28AWG.

1.25mm single row connector is available in 2 to 15 positions with horizontal configurations. Double row is available in 10 to 30 positions.

1.5mm single row connector is available in 2 to 15 positions with horizontal configurations.

- Inner active-latch
- Connector Positioning Assurance (CPA)
- Terminal-Position-Assurance (TPA)



#### TARGET MARKETS



#### FEATURES

- Housing with positive locking
- Hold down features
- Terminal-Position-Assurance (TPA)
- Polarized mating geometry
- Connector Positioning Assurance (CPA)

#### BENEFITS

- Ensures secure mating retention
- Increase the board grip force
- Ensures proper terminal insertion position and retention
- Prevents visual mismatching
- Assures that connectors are properly mated and locked together

## TECHNICAL INFORMATION

### MATERIAL

- Board Connector: PA9T
- Housing: PA66 UL 94V-0
- Crimping Terminal: Phosphor Bronze Alloy (Tin plated)

### ELECTRICAL PERFORMANCE

- Voltage Rating: 50VAC/VDC
- Insulation Resistance: 100MΩ min.
- Contact Resistance: < 40MΩ
- Current Rating: 2A

### MECHANICAL PERFORMANCE

- Durability: 30 cycles (Tin plating)
- Mating Un-mating Force: 4N/pin max.
- Housing Retention Force: 9.8N min.
- Wire Gauge: 24AWG-28AWG

### ENVIRONMENTAL

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

### APPROVALS AND CERTIFICATIONS

- UL Approval: Available

### SPECIFICATIONS

- Product Specification: GS-12-1610
- Packaging Specification: GS-14-2615
- 1.25mm Pitch Application Specification: GS-20-0660
- 1.50mm Pitch Application Specification: GS-20-0676
- Hand Tool: 10158871-001LF

### PACKAGING

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

### TARGET MARKETS/APPLICATIONS



Steering Control Button  
Infotainment  
Lighting



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

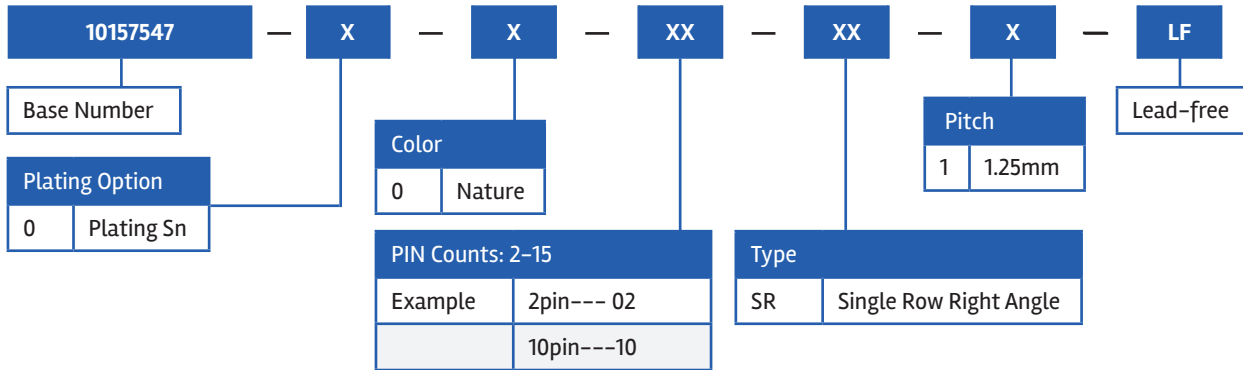


Robotics  
PLC  
Power Tool

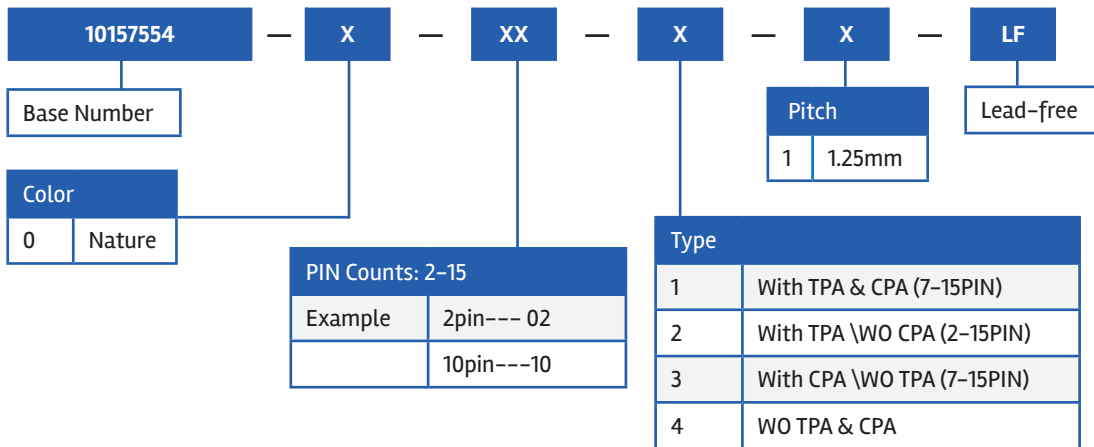
## PART NUMBER

Pitch	Configurations	Descriptions	Part Number
1.25mm	Single Row	R/A SMT Header	10157547
		Housing	10157554
	Double Row	R/A SMT Header	10158832
		Housing	10158828
1.5mm	Single Row	R/A SMT Header	10158514
		Housing	10158517
	Contact	Receptacle Terminal	10157551

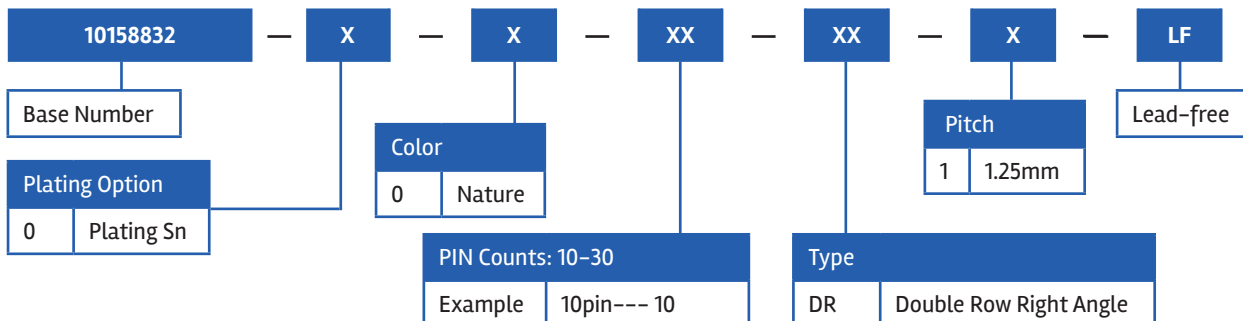
## PART NUMBER SELECTOR – SINGLE ROW R/A\_SMT HEADER\_1.25MM



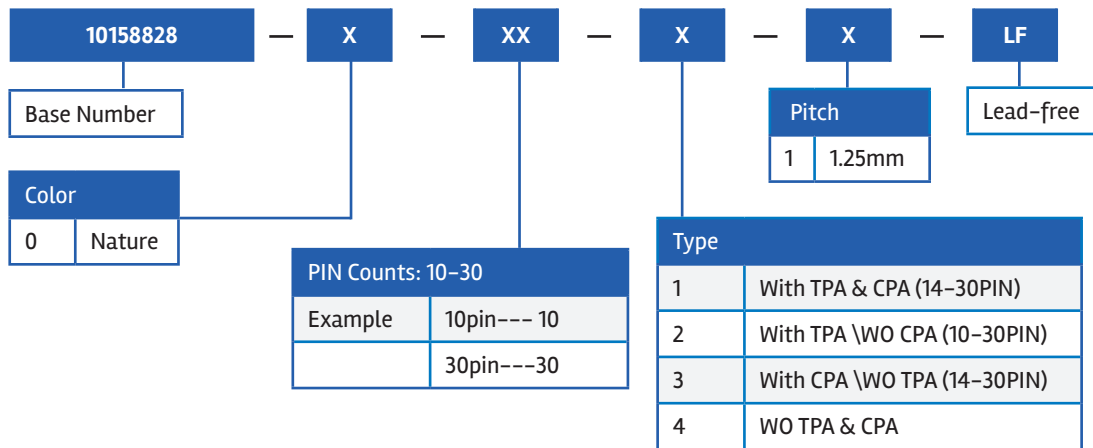
## PART NUMBER SELECTOR – SINGLE ROW RECEPTACLE HOUSING\_1.25MM



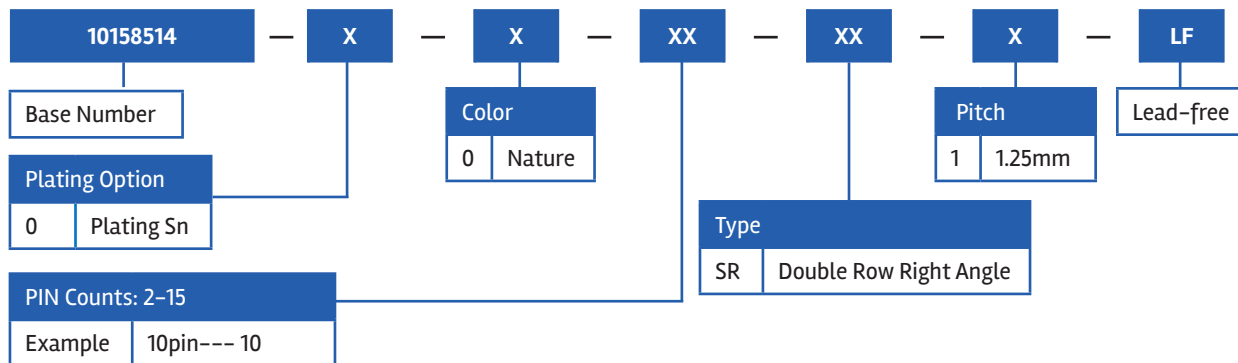
## PART NUMBER SELECTOR – DOUBLE ROW R/A\_SMT HEADER\_1.25MM



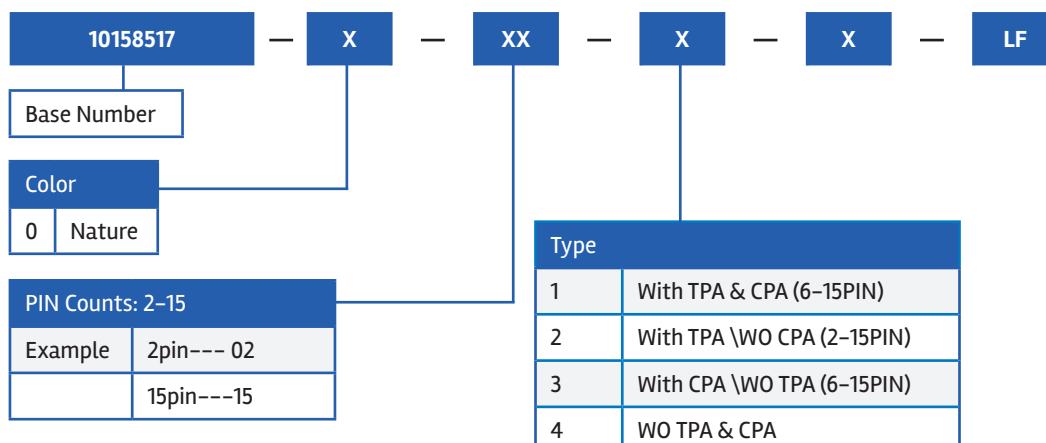
## PART NUMBER SELECTOR – DOUBLE ROW RECEPTACLE\_HOUSING\_1.25MM



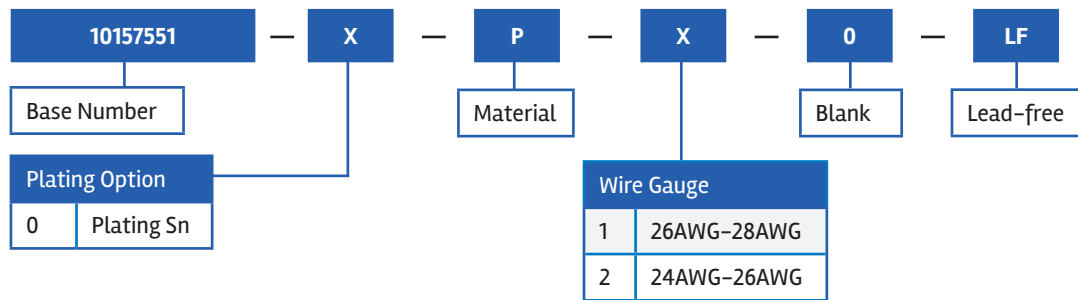
## PART NUMBER SELECTOR – SINGLE ROW R/A\_SMT HEADER\_1.5MM



## PART NUMBER SELECTOR – SINGLE ROW RECEPTACLE\_HOUSING\_1.5MM



## PART NUMBER SELECTOR – TERMINAL



## HAND TOOL

- Part Number: 10158871-001LF
- 1.25mm Pitch Application Specification: GS-20-0660
- 1.50mm Pitch Application Specification: GS-20-0676