

# LIGHT-N-LOK CONNECTORS

TOOL-LESS SOLUTIONS

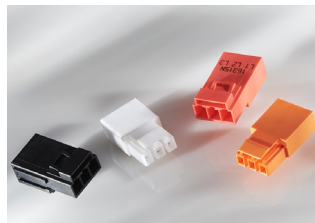
TE Connectivity's (TE) LIGHT-N-LOK Connectors are tool-less wire-to-wire connectors suitable for ballast disconnect and other lighting applications. Compact design and easy field installation are two of the main benefits of the LIGHT-N-LOK connectors. A poke-in contact feature enables fast and easy installation and the compact design of these connectors make them a perfect solution for space constrained applications. The LIGHT-N-LOK connector series features a standard version accepting 22 AWG - 18 AWG (0.33 mm<sup>2</sup> - 0.75mm<sup>2</sup>) wire sizes and a modular latched version accepting 22 AWG - 16 AWG (0.33 mm<sup>2</sup> - 1.0mm<sup>2</sup>) wire sizes.

## WHAT'S INSIDE



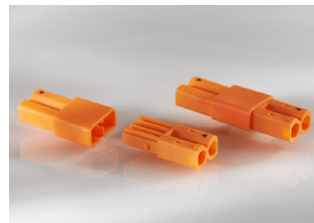
**LIGHT-N-LOK  
2 Position Modular  
Latched Connector**

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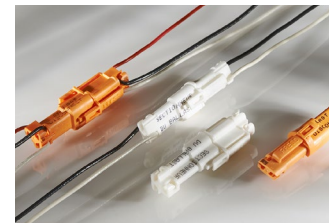
**LIGHT-N-LOK  
3 Position Modular  
Latched Connector**

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**LIGHT-N-LOK  
Standard  
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**LIGHT-N-LOK  
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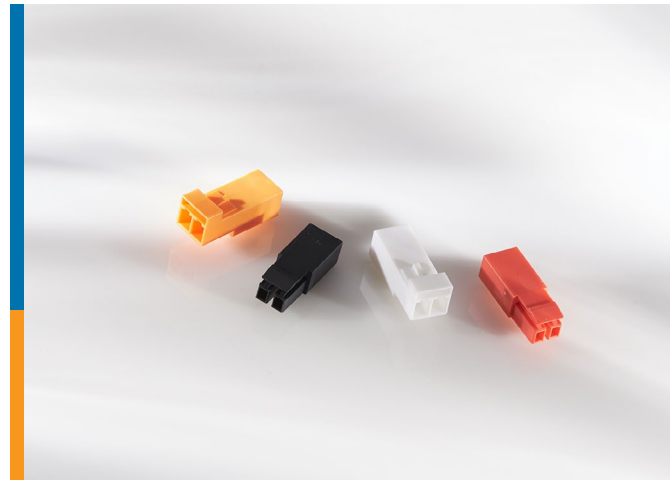


INDOOR LIGHTING

# LIGHT-N-LOK 2 POSITION MODULAR LATCHED CONNECTOR

## Compact Connector with Modular Technology

TE Connectivity (TE)'s 2 Position LIGHT-N-LOK Modular Latched connector utilizes poke-in termination which supports easy field installation as no tools are required. The compact design makes this connector ideal for applications where space is a constraint. Suitable for indoor lighting applications, this connector comes in four different colors and one modular design enabling ease of identification and assembly.



### Applications

- Indoor lighting

### Electrical

- Current rating:
  - 16 AWG: UL2459 @ 600V 5A; UL1977 @ 600V - 8A
  - 18 AWG: UL2459 @ 600V 5A; UL1977 @ 600V - 8A
  - 22 AWG: UL2459 @ 600V 3A; UL1977 @ 600V - 3A
- Voltage rating: 600 VAC Max.
- Dielectric strength: 2200 VAC

### Mechanical

- Operating Temperature: -40°C to +105°C
- Durability: 10 cycles

### Specifications

- Application Specification: [114-137159](#)
- Product Specification: [108-137159](#)
- UL1977 Approval E28476
- UL2459 Approval E308110
- Multi-pole Splicing Wire Connectors
- Multi-pole Splicing Wire Connectors Certified for Canada

### Materials

- Housing: PA, UL94 V-0
- Contact: Copper Alloy with Tin plating

### Benefits






- Modular Technology enables flexibility in design
- Tool free, easy and fast installation with poke-in contact feature
- Compact size design for space saving
- Color configurations enables easy identification





### Colors

- Black
- Orange
- Red
- White

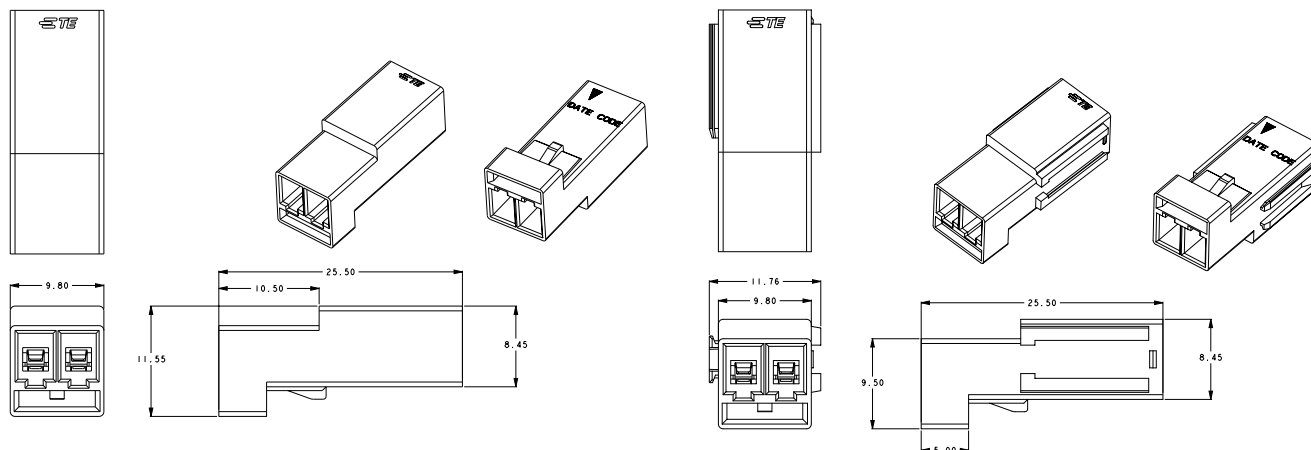
# LIGHT-N-LOK 2 POSITION MODULAR LATCHED CONNECTOR

## Product Selection Information

Type	Description	Color	Part Number	
	Plug	2 Position Latched Poke-In Wire-to-Wire Connector	Natural	<a href="#">2834048-1</a>
	Receptacle	2 Position Latched Poke-In Wire-to-Wire Connector	Natural	<a href="#">2834049-1</a>
	Plug	2 Position Latched Poke-In Wire-to-Wire Connector	Black	<a href="#">2834048-2</a>
	Receptacle	2 Position Latched Poke-In Wire-to-Wire Connector	Black	<a href="#">2834049-2</a>
	Plug	2 Position Latched Poke-In Wire-to-Wire Connector	Orange	<a href="#">2834048-3</a>
	Receptacle	2 Position Latched Poke-In Wire-to-Wire Connector	Orange	<a href="#">2834049-3</a>
	Plug	2 Position Latched Poke-In Wire-to-Wire Connector	Red	<a href="#">2834048-4</a>
	Receptacle	2 Position Latched Poke-In Wire-to-Wire Connector	Red	<a href="#">2834049-4</a>

Type	Description	Color	Part Number	
	Modular Receptacle	2 Position Latched Poke-In Wire-to-Wire Connector	Natural	<a href="#">1-2834049-1</a>
	Modular Receptacle	2 Position Latched Poke-In Wire-to-Wire Connector	Black	<a href="#">1-2834049-2</a>
	Modular Receptacle	2 Position Latched Poke-In Wire-to-Wire Connector	Orange	<a href="#">1-2834049-3</a>
	Modular Receptacle	2 Position Latched Poke-In Wire-to-Wire Connector	Red	<a href="#">1-2834049-4</a>

## Dimensions



# LIGHT-N-LOK 3 POSITION MODULAR LATCHED CONNECTOR

## Compact Connector with Modular Technology

TE Connectivity (TE)'s 3 Position LIGHT-N-LOK Modular Latched connector utilizes poke-in termination which supports easy field installation as no tools are required. The compact design makes this connector ideal for applications where space is a constraint. Suitable for indoor lighting applications, this connector comes in four different colors enabling ease of identification and assembly.



### Applications

- Indoor lighting

### Electrical

- Current rating:
  - 16 AWG: UL2459 @ 600V 5A; UL1977 @ 600V - 8A
  - 18AWG: UL2459 @ 600V 5A; UL1977 @ 600V - 8A
  - 22AWG: UL2459 @ 600V 3A; UL1977 @ 600V - 3A
- Voltage rating: 600 VAC Max.
- Dielectric strength: 2200 VAC

### Mechanical

- Operating Temperature: -40°C to +105°C
- Durability: 10 cycles

### Specifications

- Application Specification: [114-137160](#)
- Product Specification: [108-137160](#)
- UL1977 Approval E28476
- UL2459 Approval E308110
- Multi-pole Splicing Wire Connectors
- Multi-pole Splicing Wire Connectors Certified for Canada

### Materials

- Housing: PA, UL 94 V-0
- Contact: Copper Alloy with Tin plating

### Benefits









- Modular Technology enables flexibility in design
- Tool free, easy and fast installation with poke-in contact feature
- Compact size design for space saving
- Color configurations enables easy identification
- Ground PIN with make-first break-last (MFBL)
- Support for hot plug (UL2459) abnormal overload test





### Colors

- Black
- Orange
- Red
- Natural

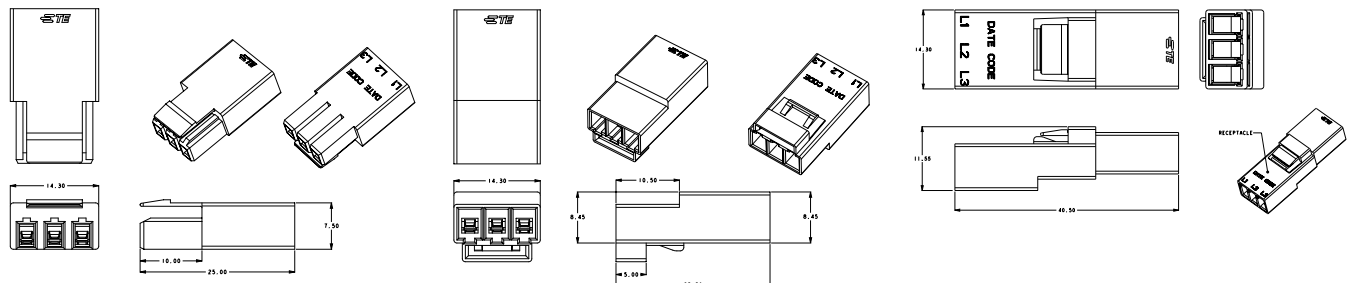
# LIGHT-N-LOK 3 POSITION MODULAR LATCHED CONNECTOR

## Product Selection Information

Type	Description	Color	Part Number	
	Plug	3 Position Latched Poke-In Wire-to-Wire Connector	Natural	<a href="#">2834054-1</a>
	Receptacle	3 Position Latched Poke-In Wire-to-Wire Connector	Natural	<a href="#">2834055-1</a>
	Plug	3 Position Latched Poke-In Wire-to-Wire Connector	Black	<a href="#">2834054-2</a>
	Receptacle	3 Position Latched Poke-In Wire-to-Wire Connector	Black	<a href="#">2834055-2</a>
	Plug	3 Position Latched Poke-In Wire-to-Wire Connector	Orange	<a href="#">2834054-3</a>
	Receptacle	3 Position Latched Poke-In Wire-to-Wire Connector	Orange	<a href="#">2834055-3</a>
	Plug	3 Position Latched Poke-In Wire-to-Wire Connector	Red	<a href="#">2834054-4</a>
	Receptacle	3 Position Latched Poke-In Wire-to-Wire Connector	Red	<a href="#">2834055-4</a>

Type	Description	Color	Part Number	
	Modular Receptacle	3 Position Latched Poke-In Wire-to-Wire Connector	Natural	<a href="#">1-2834055-1</a>
	Modular Receptacle	3 Position Latched Poke-In Wire-to-Wire Connector	Black	<a href="#">1-2834055-2</a>
	Modular Receptacle	3 Position Latched Poke-In Wire-to-Wire Connector	Orange	<a href="#">1-2834055-3</a>
	Modular Receptacle	2 Position Latched Poke-In Wire-to-Wire Connector	Red	<a href="#">1-2834055-4</a>

## Dimensions



# LIGHT-N-LOK STANDARD CONNECTORS

## Compact Connector with Reliable Poke-in Wiring Technology

TE Connectivity (TE)'s 2 position LIGHT-N-LOK Standard connector provides a space-saving solution for indoor downlighting, connecting power to luminaire. Designed with limited space in mind, the low profile, UL/CSA 2459 compliant connector eliminates the hazard of electric shock and accepts 18 AWG - 22 AWG solid or tin-dipped stranded wires. It is designed for easy, tool-free installation and eliminates mis-mating through its bump feature.

The poke-in technology allows for easy repair and is supported by dual contact surfaces and a metal stopper for reliability. Contacts are fully fixed in the housing and feature an additional lock bar for added dependability.

### Applications

- Indoor lighting, especially downlights
- Commercial lighting

### Specifications & Product Performance

Rate current (max):	18 AWG:	3A Max 3A certified by UL2459
	22 AWG:	4A Max
Rate voltage (max):		600 V AC Max
Dielectric strength:		2200 V AC
Operating Ambient Temperature Range:		-40°C to 105°C
Durability:		10 cycles
Housing:		P, UL 94 V-O
Contact:		Copper alloy with tin plating
Application Specification:		<a href="#">114-137020</a>
Product Specification:		<a href="#">108-137020</a>
UL2459 Approval:		308110
Part Numbers:	Plug:	<a href="#">2271180-1</a>
	Receptacle:	<a href="#">2271183-1</a>
	Mated Connector:	<a href="#">2271203-1</a>



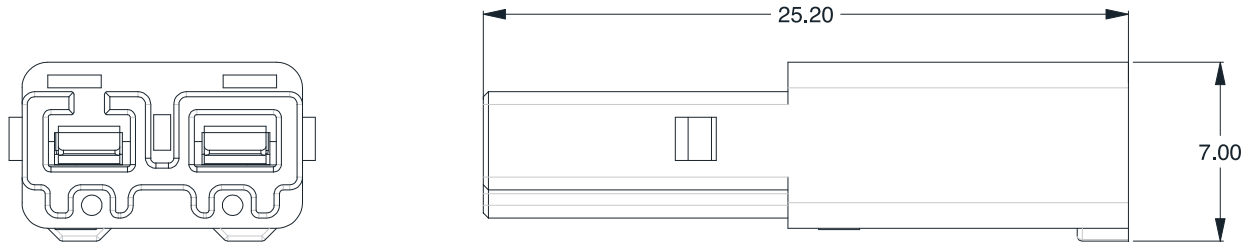
### Benefits

- 2 position, poke-in wiring
- Compact design
- Tool-free installation
- Fits 18-22 AWG solid or tin-dipped stranded wires
- UL/CSA 2459 compliant
- EU RoHS/ELV compliant
- Bump feature allows for easy mating/unmating
- Slim design for maximum Z direction space saving
- Dual contact surface design increases contact reliability
- Contacts are fully fixed in housing for high reliability
- A dditional lock bar designed for enhanced retention



Dimensions

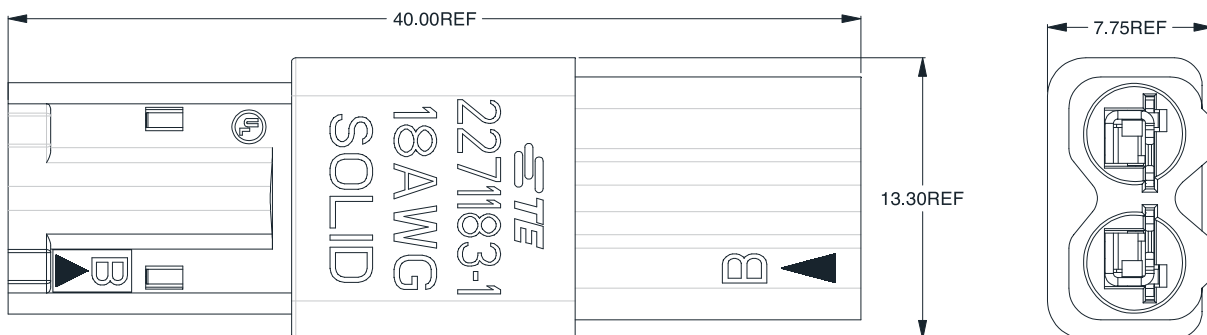
Plug (2271180-1) :



Receptacle (2271183-1) :



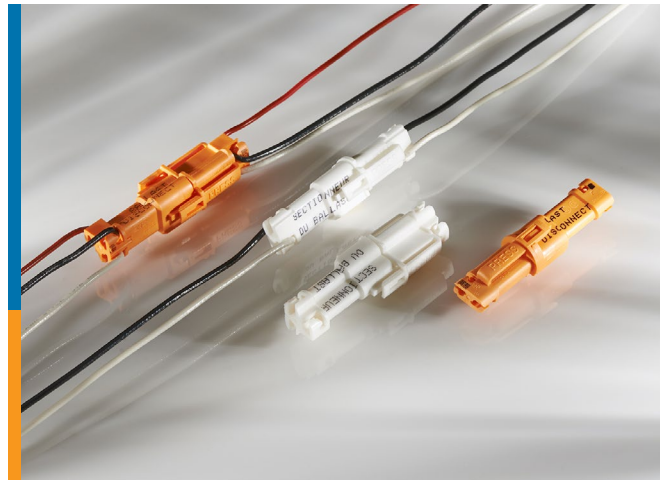
Mated Connector (2271203-1) :



# LIGHT-N-LOK CONNECTORS

## Hot Pluggable

TE connectivity's (TE) 2 and 3 position LIGHT-N-LOK hot pluggable connectors are poke-in wire-to-wire connectors. These provide a safe, pluggable disconnect for hot and neutral ballast wiring that meets the National Electrical Code and Canadian Electrical Code requirements for new installations and retrofit non-residential fluorescent luminaire applications. The mated pair connector assembly accepts 18 AWG solid wire only with integral wire strain relief features that provide additional wire retention. Unmated and unmarked connectors are available for non NEC or CEC lighting applications.



### Applications

- Commercial lighting applications for UL2459
- Hot pluggable interconnect for fluorescent ballast applications
- Indoor non-residential fluorescent fixtures
- Fluorescent LED retrofit fixtures
- Indoor LED lighting fixtures

### Electrical

- **Contact Current Rating:** 5A max
- **Operating Voltage:** 120 to 600 VAC
- **Operating Temperature:** -40°C to 95°C

### Mechanical

- **Wire Retention:** Strain relief retention exceeds 25 pounds (11,3 kg)

### Specifications

- UL listed under ZMNA, E308110
- CSA certified under LR7189, Class 6233-01
- **Product Specification:** [108-2275](#)
- **Application Specification:** [114-13204](#) (2 position)  
[114-13207](#) (3 position)
- **Instruction Sheet:** [408-10153](#) (2 position)  
(3 Position)

### Materials

- **Contacts:** Tin plated copper alloy
- **Housing:** Thermoplastic UL 94V-0
- **RoHS Compliant**

### Benefits

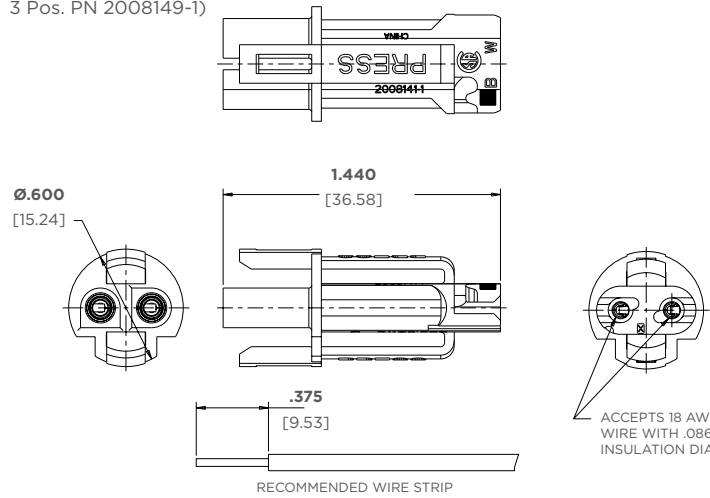
- Available in 2 and 3 position sizes (required for dimmable lighting fixtures)
- Can be supplied as pre-assembled mated connector sets with or without factory installed flying leads
- Meets new NEC and CEC requirements for hot pluggable ballast disconnect
- Poke-in termination for 18 AWG (0.75 mm<sup>2</sup>) solid wire for easy tool-less, field or factory installation
- Integral strain relief prevents inadvertent wire twist out and pull out
- Designed to be hot pluggable
- Snag resistant rounded housings
- Compact polarized connector housings: 2 position assembly fits through a 5/8" diameter knock-out opening; 3 position assembly fits through 7/8" diameter knock-out opening
- Squeeze-to-release connector latches prevent unintentional disconnect of connector
- Product is marked (English/French) in support of CSA Luminaire Labeling Requirements

## Product Selection Information

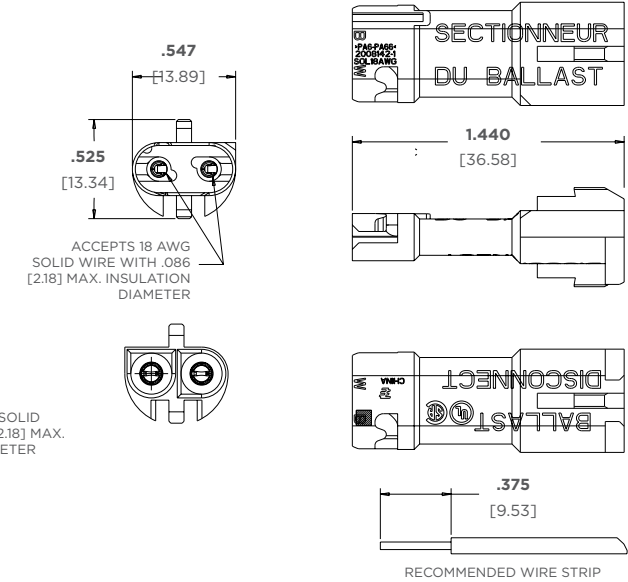
Part Number	Description	Color
<a href="#">2008144-1</a>	2 Position Mated Pair Assembly	Natural
<a href="#">2008910-1</a>	2 Position Mated Pair Assembly	Orange
<a href="#">2008141-1</a>	2 Position Plug Assembly	Natural
<a href="#">2008141-2</a>	2 Position Plug Assembly-Unmarked	Natural
<a href="#">2008142-1</a>	2 Position Receptacle Assembly	Natural
<a href="#">2008142-2</a>	2 Position Receptacle Assembly-Unmarked	Orange
<a href="#">2008152-1</a>	3 Position Mated Pair Assembly	Natural
<a href="#">2008152-2</a>	3 Position Mated Pair Assembly	Orange
<a href="#">2008149-1</a>	3 Position Plug Assembly	Natural
<a href="#">2008149-4</a>	3 Position Plug Assembly-Unmarked	Natural
<a href="#">2008150-1</a>	3 Position Receptacle Assembly	Natural

## Dimensions

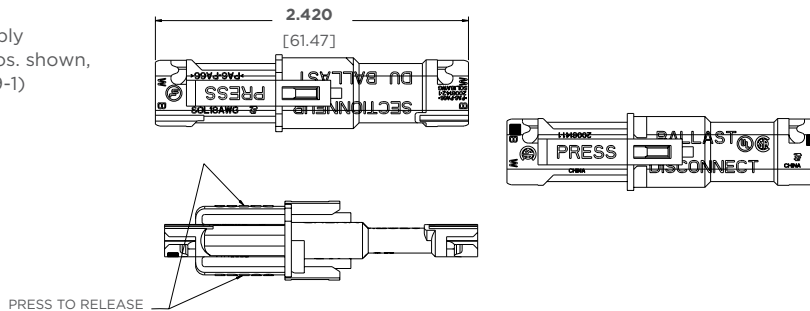
Plug Assembly  
 PN 2008141-1 (2 Pos. shown,  
 3 Pos. PN 2008149-1)



Receptacle Assembly  
 PN 2008142-1 (2 Pos. shown, 3 Pos. PN 2008150-1)



Mated Pair Assembly  
 PN 2008141-1 (2 Pos. shown,  
 3 Pos. PN 2008149-1)



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