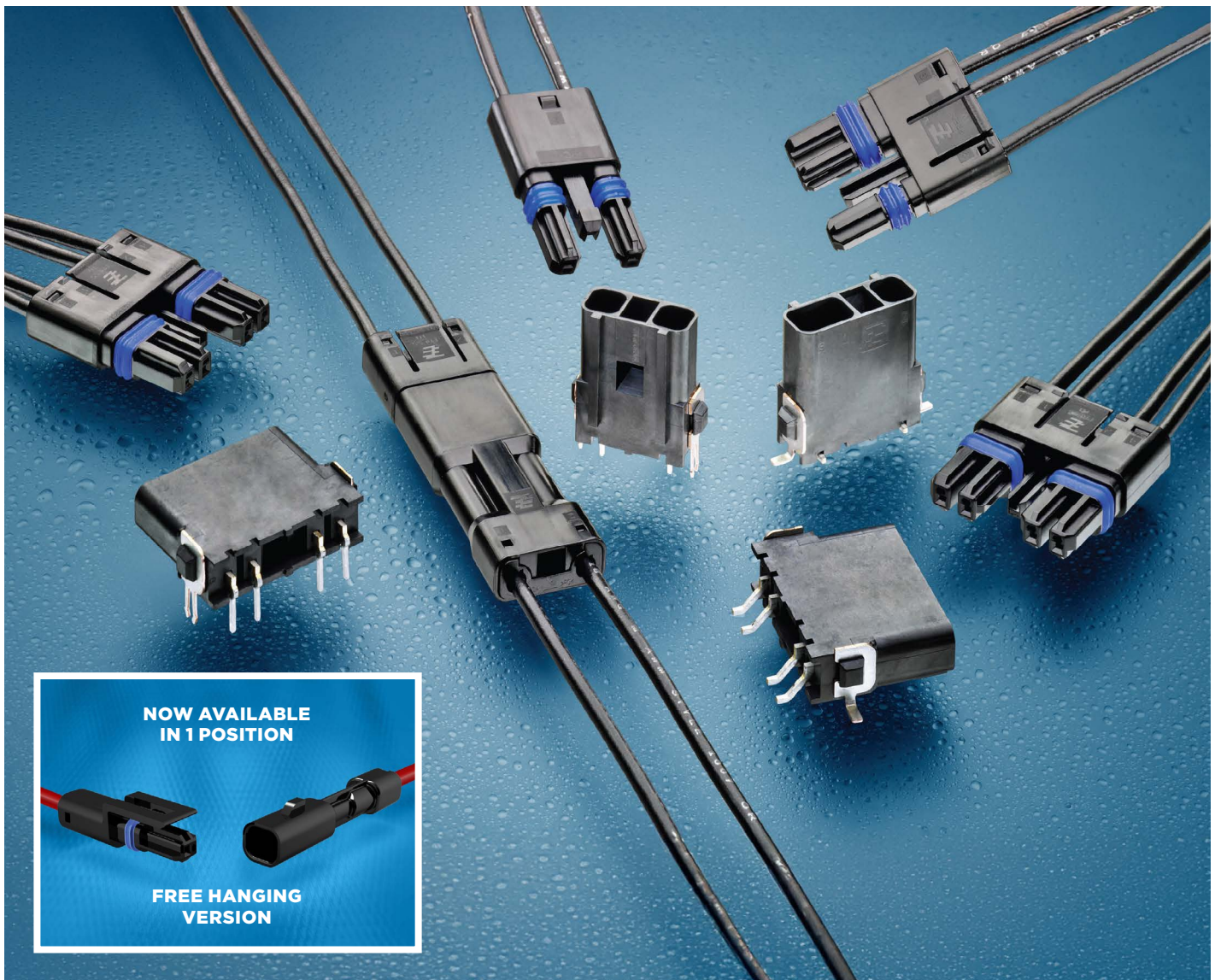




## SLIMSEAL SSL CONNECTOR

The SlimSeal SSL connectors are low profile, single row connectors developed for indoor and outdoor LED lighting applications. These connectors provide low power, sealed solutions for free hanging, wire-to-wire interconnects and for robust, stable electrical and mechanical wire-to-board connections used in solid state lighting.

## SLIMSEAL SSL CONNECTOR

# LIGHTING APPLICATIONS

TE Connectivity (TE)'s LUMAWISE Endurance N dimming receptacle assembly is for outdoor commercial and utility lighting. TE LUMAWISE Endurance N dimming receptacle is compliant with ANSI C136.41 standard and is available with two or four dimming contacts to support either 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), while providing a reliable power interconnect with three robust twist lock contacts.

### KEY FEATURES

- Available in 1, 2, 3 & 4 positions for use in various lighting and control applications
- 1 position designed for daisy chain adjacent LED modules in a single fixture
- Surface-mount technology (SMT) and thru-hole versions permit assembly to SMT metal clad & FR4 thru-hole printed circuit board (PCB)
- Polarized connections help decrease the possibility of mis-mating connectors
- Positive integral latching helps prevent inadvertent unmating of connectors
- Pre-assembled seals & wire guides help reduce assembly time
- IP67 seal rating for outdoor and commercial refrigeration lighting applications

### ELECTRICAL

- Operating Current : 5 AMPS (18-20 AWG) & 3.5 AMPS (22-24 AWG) 1 position designed for daisy chain adjacent LED modules in a single fixture
- Maximum Operating Voltage : 400VAC / 400VDC
- Dielectric Withstanding Voltage : 1800 VAC

### MECHANICAL

- Number of positions : 1, 2, 3 and 4
- Operating Temperature : -40°C to 105°C
- Seal Rating : IP67
- Durability : 30 mating cycles

### MATERIALS

- Housings : UL 94 V0 rated high temperature resistant thermoplastic
- Receptacle Contacts : Tin Plated Copper Alloy
- Tab Contacts : Tin Plated Brass
- Integral Seals : Silicone Rubber

### STANDARDS AND SPECIFICATIONS

- UL 1977, CSA C22.2 No. 182.3
- TE Application Specification : [114-13261](#)
- TE Product Specification : [108-2391](#)
- Exposure : UL 746C F1 (suitable for outdoor use, wire-to-wire only)

### APPLICATION TOOLING

#### 18-20 AWG Tab and Receptacle Terminals

| PART NUMBER               | DESCRIPTION          |
|---------------------------|----------------------|
| <a href="#">2063957-1</a> | Hand Tool            |
| <a href="#">2151651-1</a> | Ocean 2.0 Applicator |

#### 22-24 AWG Tab and Receptacle Terminals

| PART NUMBER               | DESCRIPTION               |
|---------------------------|---------------------------|
| <a href="#">2063957-1</a> | SDE Commercial Tool & Die |
| <a href="#">2266019-1</a> | Ocean 2.0 Applicator      |
| <a href="#">2266019-2</a> | Ocean 2.0 Applicator      |

### APPLICATIONS

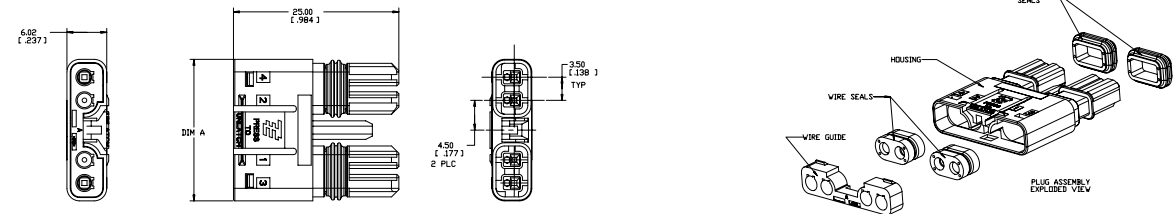
- Channel/Sign
- Emergency
- Digital Signage
- Architectural
- Street & Stadium
- Commercial Refrigeration

# PRODUCT DIMENSIONS cont.



FREE HANGING PLUG ASSEMBLY

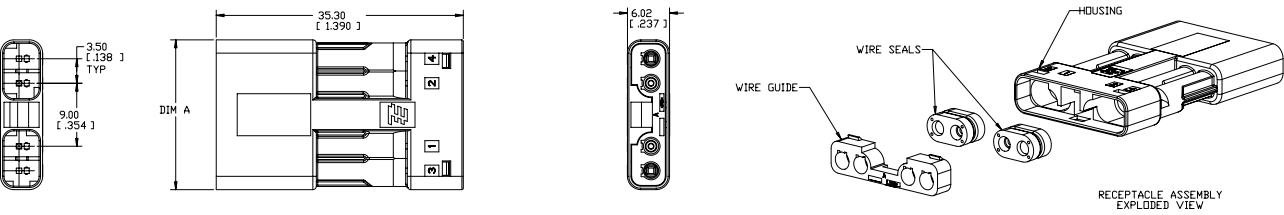
EXPLODED VIEW



| PART NUMBER               | POSITION SIZE | DESCRIPTION   | DIM "A"      |
|---------------------------|---------------|---------------|--------------|
| <a href="#">2154854-1</a> | 1             | Plug Assembly | 6.52 [.257]  |
| <a href="#">2106135-2</a> | 2             | Plug Assembly | 14.40 [.567] |
| <a href="#">2106135-3</a> | 3             | Plug Assembly | 17.90 [.705] |
| <a href="#">2106135-4</a> | 4             | Plug Assembly | 21.40 [.843] |

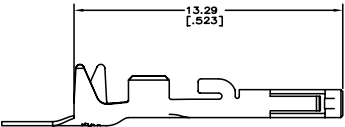
FREE HANGING PLUG ASSEMBLY

EXPLODED VIEW



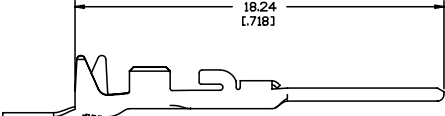
| PART NUMBER               | POSITION SIZE | DESCRIPTION         | DIM "A"      |
|---------------------------|---------------|---------------------|--------------|
| <a href="#">2154852-1</a> | 1             | Receptacle Assembly | 6.52 [.257]  |
| <a href="#">2106136-2</a> | 2             | Receptacle Assembly | 14.40 [.567] |
| <a href="#">2106136-3</a> | 3             | Receptacle Assembly | 17.90 [.705] |
| <a href="#">2106136-4</a> | 4             | Receptacle Assembly | 21.40 [.843] |

RECEPTACLE CONTACT



| PART NUMBER                 | DESCRIPTION                                 |
|-----------------------------|---------------------------------------------|
| <a href="#">2106123-1</a>   | 18-20 AWG Receptacle Terminal               |
| <a href="#">2106123-2</a>   | 18-20 AWG Receptacle Terminal (Loose Piece) |
| <a href="#">1-2106123-1</a> | 22-24 AWG Receptacle Terminal               |
| <a href="#">1-2106123-2</a> | 22-24 AWG Receptacle Terminal (Loose Piece) |

TAB CONTACT



| PART NUMBER                 | DESCRIPTION                          |
|-----------------------------|--------------------------------------|
| <a href="#">2106124-2</a>   | 18-20 AWG Tab Terminal               |
| <a href="#">2106124-9</a>   | 18-20 AWG Tab Terminal (Loose Piece) |
| <a href="#">2-2106124-2</a> | 22-24 AWG Tab Terminal               |
| <a href="#">2-2106124-7</a> | 22-24 AWG Tab Terminal (Loose Piece) |

## A close-up photograph of two RJ45 network connectors. The connectors are black plastic with blue strain relief loops. They are positioned on a blue surface covered with numerous small, clear water droplets, creating a textured, reflective background. The lighting highlights the metallic contacts inside the ports and the texture of the plastic and water.

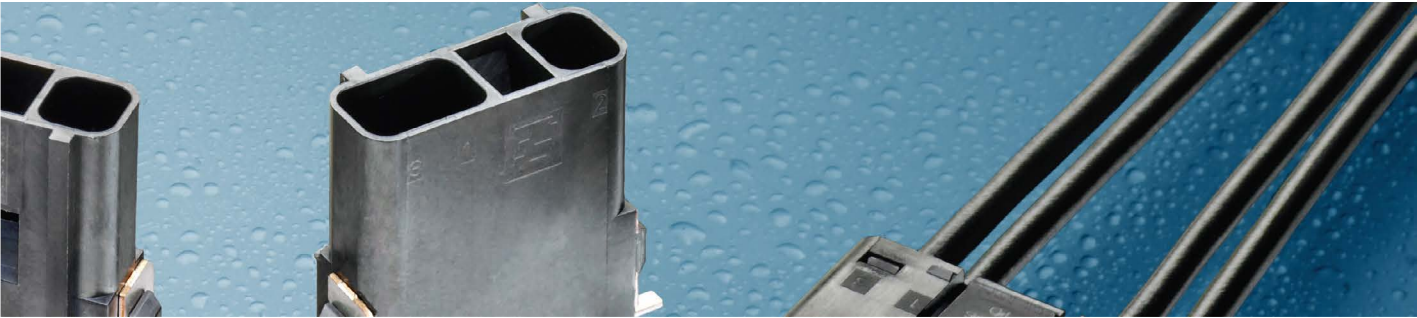
Figure 1: Dimensional drawing of the front view of the housing. The drawing shows a cross-section of a mechanical housing with various dimensions and tolerances. Key features include a central bore with a diameter of 3.50 (+0.00, -0.0032) and a tolerance of 0.0041 Y. A central shaft with a diameter of 2.65 (+0.00, -0.0032) is shown. The housing has a total width of 4.50 (+0.00, -0.0032) and a thickness of 1.95 (+0.00, -0.0032). The drawing also shows a central bore with a diameter of 3.40 (+0.00, -0.0032) and a tolerance of 0.0041 Y. The drawing is labeled with dimensions and tolerances in inches and millimeters.

[illegible]

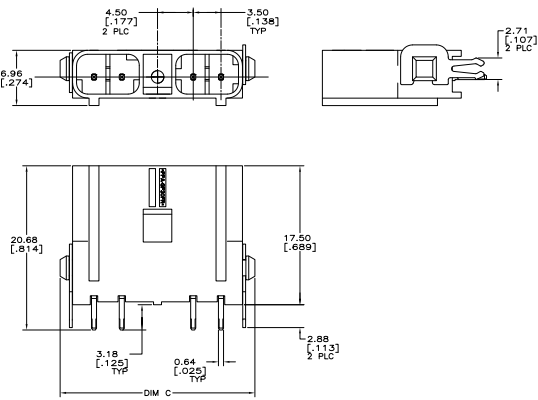
The diagram illustrates the front panel dimensions of a device. Key features include:

- Circuit Components:** Located at the top, featuring two PLC units with dimensions 4.50 [1.77] and 3.50 [1.38], and a typical dimension of 3.60 [1.42].
- Housing Outline:** Indicated by a dashed line and an arrow pointing to the main body of the device.
- Dimensions:** Various measurements are provided in inches and millimeters, such as 2.20 [.087] X TYP, 1.35 [.053] TYP, 7.05 [.278], and 2.00 [.079] X 2 PLC.
- Labels:** Includes "CIRCUIT" at the top, "-X-" near the top left, and "-HOUSING OUTLINE-" at the bottom left.
- Internal Structure:** A dashed line outlines the internal components within the housing.
- Mounting Features:** Two circular mounting holes are shown at the bottom, with dimensions DIM B and DIM A indicated between them.

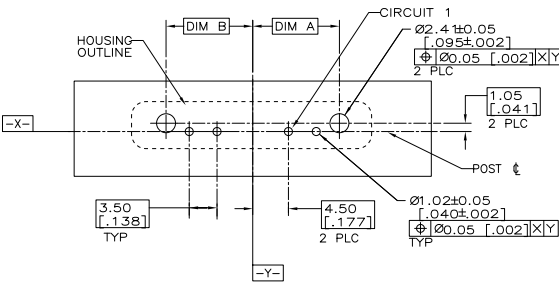
# PRODUCT DIMENSIONS cont.



VERTICAL THRU HOLE HEADER

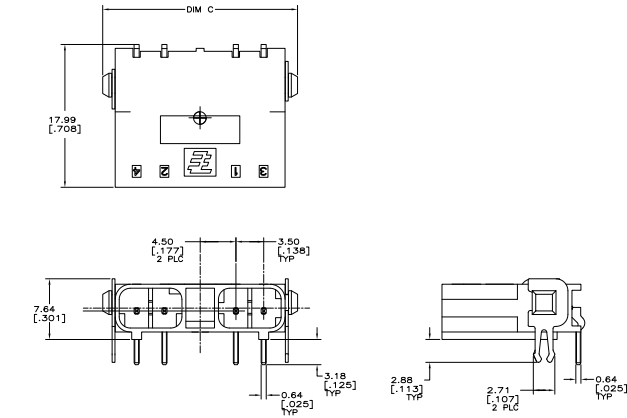


RECOMMENDED PCB LAYOUT

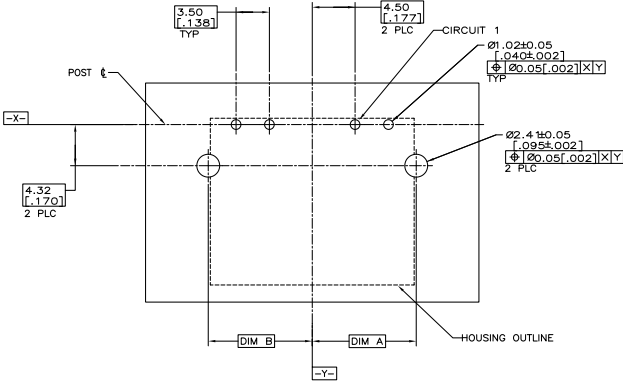


| PART NUMBER               | POSITION SIZE | DESCRIPTION               | DIM "A"     | DIM "B"     | DIM "C"     |
|---------------------------|---------------|---------------------------|-------------|-------------|-------------|
| <a href="#">2106112-2</a> | 2             | Vertical Thru Hole Header | 7.42 [292]  | 7.42 [292]  | 17.54 [691] |
| <a href="#">2106112-4</a> | 3             | Vertical Thru Hole Header | 10.92 [430] | 7.42 [292]  | 21.04 [828] |
| <a href="#">2106112-6</a> | 4             | Vertical Thru Hole Header | 10.92 [430] | 10.92 [430] | 24.54 [966] |

RIGHT ANGLE THRU HOLE HEADER



RECOMMENDED PCB LAYOUT



| PART NUMBER               | POSITION SIZE | DESCRIPTION                  | DIM "A"      | DIM "B"      | DIM "C"      |
|---------------------------|---------------|------------------------------|--------------|--------------|--------------|
| <a href="#">2106111-2</a> | 2             | Right Angle Thru Hole Header | 7.42 [.292]  | 7.42 [.292]  | 17.54 [.691] |
| <a href="#">2106111-4</a> | 3             | Right Angle Thru Hole Header | 10.92 [.430] | 7.42 [.292]  | 21.04 [.828] |
| <a href="#">2106111-6</a> | 4             | Right Angle Thru Hole Header | 10.92 [.430] | 10.92 [.430] | 24.54 [.966] |

## QUESTIONS TO ASK AT DESIGN IN

### What wire gauge and insulation type will you be using?

The connectors accept 18 -20 AWG and 22 – 24 AWG stranded wire with a wire varying maximum insulation outside diameters per wire gauge.

### What special retention mechanisms are available to ensure stability on the printed circuit board?

The vertical and right angle SMT headers have surface mount hold downs whereas the vertical and right angle thru-hole headers have board locks to help provide stability during mating and un-mating.

### What helps prevent the connectors from being disconnected unintentionally?

The connectors are snag resistant and have an integral, flush mounted, actuated latch that helps prevent inadvertent un-mating of the connectors.

### Is your manufacturing process automated?

The SMT headers are manufactured in high temperature material for reflow processing and tape and reel packaged for high speed SMT processing.

### What application tooling options are available?

Hand tools are available for product evaluation and/or low volume production using loose piece terminals. Applicators are available for mid to high volume production terminals on reel using bench top semi-automatic presses or fully automated lead makers.

### What mechanical and electrical testing have the connectors been subjected to?

The TE Product Specification 108-2391 provides a summary of the test groups, sequences and results that the product was subjected to during product qualification testing.

### What version of the header assemblies, vertical or right angle, is more widely accepted?

Right angle surface mount headers are more often chosen because they provide a more robust, low profile connection to the printed circuit board. Vertical headers are chosen if limited space is available to mate the plug connection in the final assembly.

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