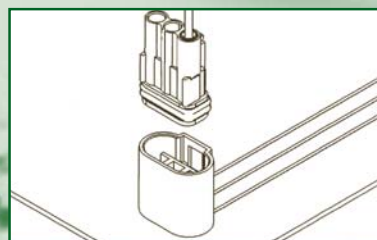
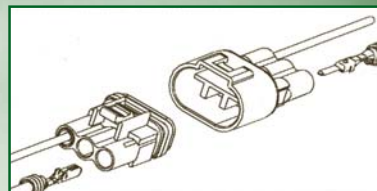
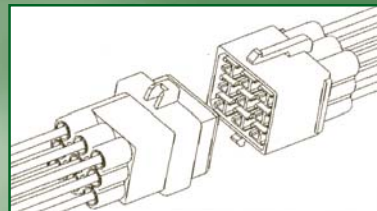
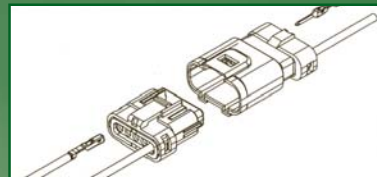
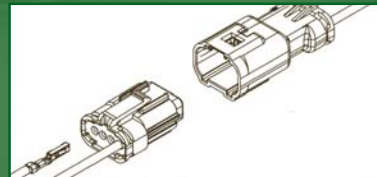




## Water-Proof Connectors





Edac's waterproof Wire-to-Wire and Wire-to-Board series was designed for both extreme moisture and non-submersion applications supporting both low-level signal and power applications up to 12 amps and 300 volts.

Major applications include automotive, commercial and recreational vehicles, outdoor lighting, appliances, marine & aftermarket products, solar power installations, industrial equipment, process control, construction equipment, outdoor broadcast systems and portable devices.

Edac's waterproof series comes in pitch sizes ranging from 2.0mm to 5.08mm and feature silicone rubber gaskets either pre-installed in all-in-one plugs and receptacle housings or loose and available in a range of sizes to accommodate wire from 28 - 14 AWG with either thin or standard wire insulation. Operating temperature range across the whole series of -40° to +105° C.

Some of the unique features of Edac's waterproof series include integral locking tabs designed to prevent accidental disengagements, keying system to prevent miss-mating, circuit sizes from 1 to 9 positions and visual confirmation of proper sealing.

Application tooling available includes hand tools for prototype and small builds to fully automated presses and applicators for high production applications. Edac also offers the whole series in custom cables already fully assembled.

#### **Features and Benefits:**

Pre-assembled housings, seals and Terminal Position Assurance (TPA) components

Simple crimp, poke and plug application

Integral two way, mate and interface seals designed and tested to **IP67 and SAE USCAR-2 \***

Easy terminal extraction and insertion

Compatible with a wide range of UL (28 to 14 AWG) and SAE Automotive (28 to 14) style wires

Integral locking latch with secondary connector position assurance (CPA) option

Applied cost savings

No need to crimp individual wire seals for 565 and 566 Series

Locks terminals into housings and prevents terminals from backing out

More than just waterproof, a true sealed connector system tested under submerged conditions

Quick, low cost field repairs

Supports a wide range of power and signal applications

Assures positive mating of connector and prevents accidental disengagement during high vibration and severe shock application

#### **Applications**

|                    |                      |                     |                           |
|--------------------|----------------------|---------------------|---------------------------|
| Lighting           | Industrial Pumps     | Welding Equipment   | Sound / Broadcast Systems |
| Process Equipment  | Marine               | Traffic Management  | Liquid Monitoring Meters  |
| Portable Equipment | Test Equipment       | Recreation Vehicles | Construction Equipment    |
| Emergency Vehicles | Industrial Equipment | Automotive          | Appliances                |

(\* Except 567 Series - Tested to IP52 Splashproof)



## Quick Reference Guide

| Series | Type          | Amps | Pitch | Terminal   | Page |
|--------|---------------|------|-------|------------|------|
| 565    | Wire to Wire  | 3    | 2.5mm | 565 Series | 4    |
| 565    | Wire to Board | 3    | 2.5mm | 565 Series | 4    |
| 566    | Wire to Wire  | 2    | 2.0mm | 566 Series | 6    |
| 567    | Wire to Wire  | 5    | 5.9mm | 570 Series | 8    |
| 570    | Wire to Wire  | 10   | 5.8mm | 570 Series | 10   |
| 570    | Wire to Board | 10   | 5.8mm | 570 Series | 10   |
| 568    | Wire to Wire  | 12   | N/A   | 570 Series | 12   |
| Tools  |               |      |       |            | 13   |

## How to use this Catalogue

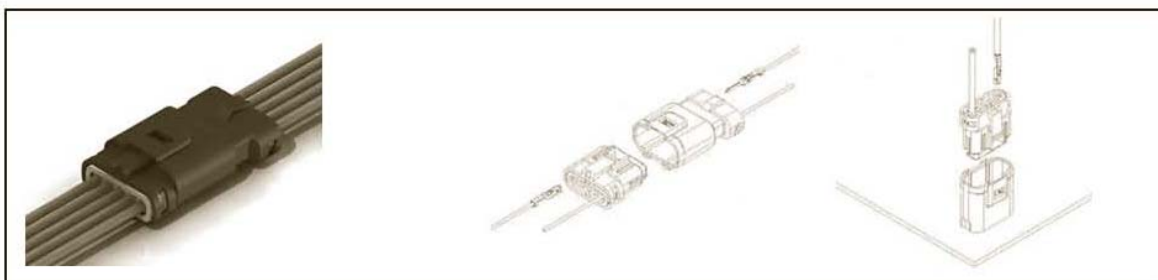
- Using the quick reference guide above, select the type of solution you need and proper current rating for your application and refer to the section of the catalogue with the series you've selected.
- Select the part with the appropriate number of contacts required for your application and the mating connector if required. (Quantities shown are standard pack quantities).
- If applicable, using the Wire Seal selection guide in the series section, select the seal required for the wire gauge to be used in the application.
- Terminals are supplied on the reel and in bulk. See specific series section for more information on available standard quantities.

**Custom assemblies are available in all series directly from Edac manufactured to your specifications. Contact the factory or your local representative for more information.**

## Wire Gauge Cross Reference

| Gauge / A.W.G. | Sectional Area mm <sup>2</sup> | Gauge / A.W.G. | Sectional Area mm <sup>2</sup> |
|----------------|--------------------------------|----------------|--------------------------------|
| #10            | 5.2                            | #24            | 0.21                           |
| #12            | 3.3                            | #26            | 0.13                           |
| #14            | 2.0                            | #28            | 0.08                           |
| #16            | 1.31                           | #30            | 0.05                           |
| #18            | 0.83                           | #32            | 0.03                           |
| #20            | 0.52                           | #34            | 0.02                           |
| #22            | 0.33                           | #36            | 0.01                           |

IP67 CERTIFIED



## Features

- 2.5mm pitch, Rated current: 3A Max
- Fully Waterproof solution
- Available in wire-to-wire and wire-to-board (potable) options
- Seals preassembled into housing-no external sealing required
- True crimp and poke solution
- Available with wire already installed
- Waterproof caps available to cover unused holes

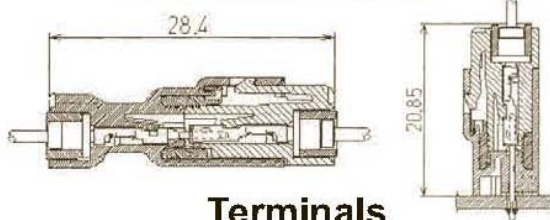
## Materials

|                     |                                                 |
|---------------------|-------------------------------------------------|
| Housing             | PBT (UL94V-0)                                   |
| Terminal            | Phosphor Bronze/Tin Plating                     |
| PCB Header          | PBT with glass (UL94V-0)<br>Brass / Tin Plating |
| Wire • Housing Seal | Silicone Rubber                                 |

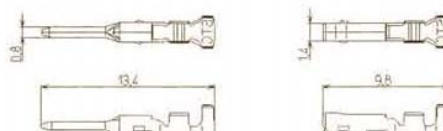
## Specifications

|    |                       |                        |
|----|-----------------------|------------------------|
| 1  | Circuits              | 2,3,5P                 |
| 2  | Pitch                 | 2.5mm                  |
| 3  | Rated Voltage         | 250V                   |
| 4  | Rated Current         | 3A max.                |
| 5  | Withstand Voltage     | AC1000V r.m.s.         |
| 6  | Contact Resistance    | 15m Ω max.             |
| 7  | Insulation Resistance | 1000M Ω min. /DC 500 V |
| 8  | Temperature Range     | -40°C ~+ 105°C         |
| 9  | Waterproof Grade      | IP67                   |
| 10 | PCB Thickness         | 1.6mm                  |

## Assembly Layout



## Terminals



565-290-711/741

565-290-721/731

Terminals are also available in strips of 50 pieces.  
Contact Edac for more information.

| AWG # 22 ~ 28 |             | Pcs / Reel |
|---------------|-------------|------------|
| REC(F)        | 565-290-721 | 10,000     |
| TAB(M)        | 565-290-711 | 8,000      |
| AWG # 20 ~ 22 |             | Pcs / Reel |
| REC(F)        | 565-290-741 | 8,000      |
| TAB(M)        | 565-290-731 | 8,000      |

## Internal Wire Seal

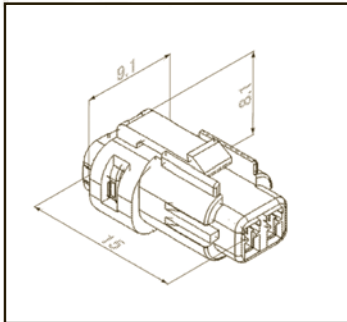
| Ins. Dia.     | Color  | Applicable Terminal        |
|---------------|--------|----------------------------|
| Ø 1.0 ~ 1.30  | Yellow | 565-290-711<br>565-290-721 |
| Ø 1.30 ~ 1.70 | Orange | 565-290-731<br>565-290-741 |

## Waterproofing Cap

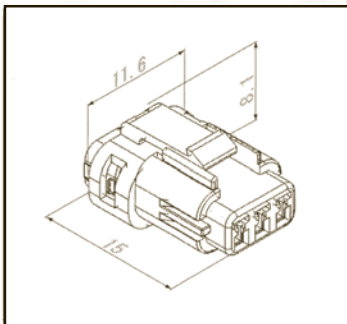
565-200-100

## Female Housing

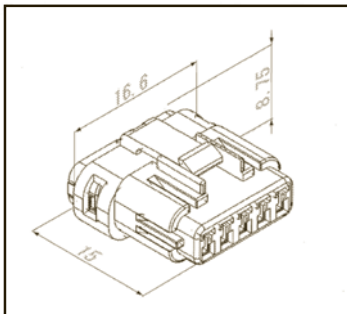
565-002-000-XXX



565-003-000-XXX



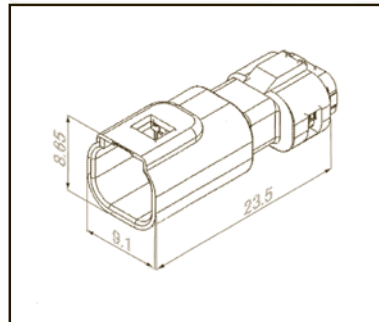
565-005-000-XXX



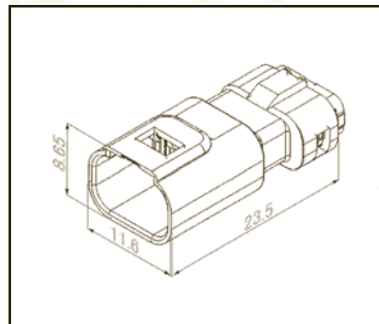
| Insulation Diameter | "XXX" |
|---------------------|-------|
| 1.0 to 1.30mm       | 410   |
| 1.30 to 1.70mm      | 411   |

## Male Housing

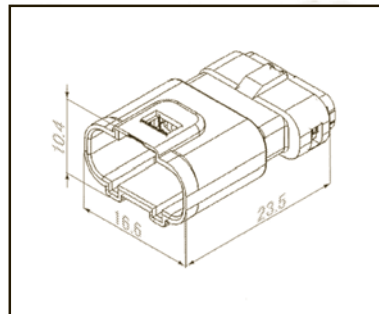
565-002-000-XXX



565-003-000-XXX



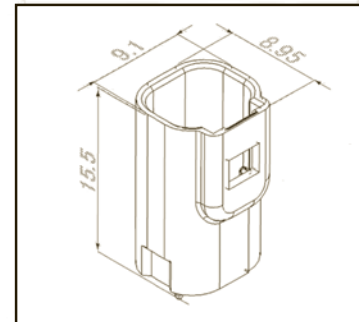
565-005-000-XXX



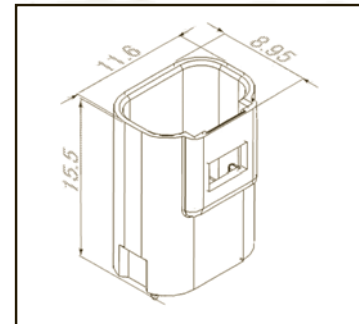
| Insulation Diameter | "XXX" |
|---------------------|-------|
| 1.0 to 1.30mm       | 310   |
| 1.30 to 1.70mm      | 311   |

## PCB Header

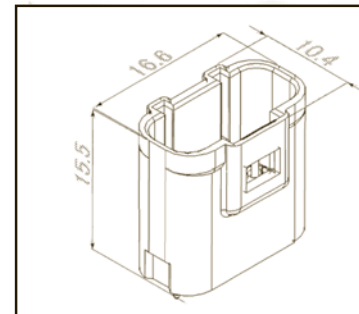
565-002-420-101



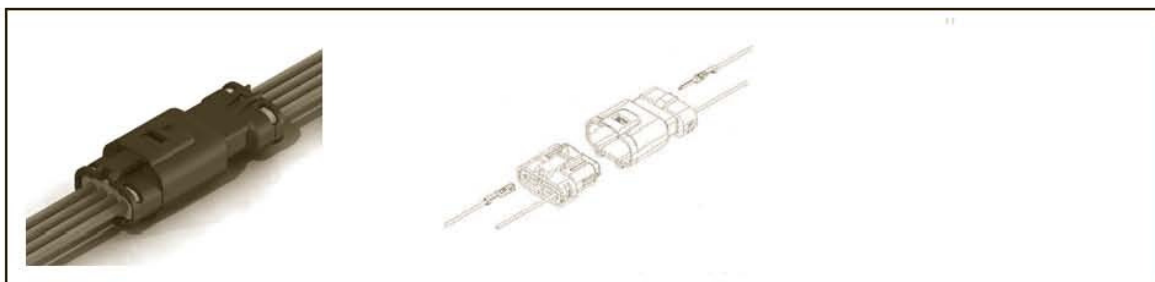
565-003-420-101



565-005-420-101



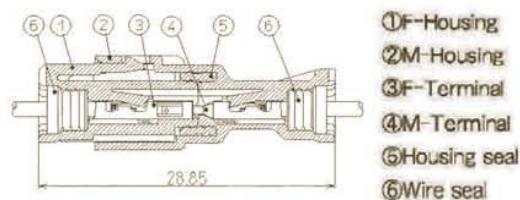
IP67 CERTIFIED



### Features

- 2.0mm pitch, Rated current: 2A Max
- Fully Waterproof solution
- Available in wire-to-wire options
- Seals preassembled into housing-no external sealing required
- True crimp and poke solution
- Available with wire already installed
- Waterproof caps available to cover unused holes

### Assembly Layout



### Materials

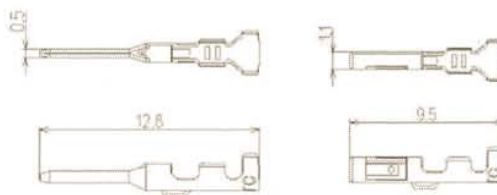
|                     |                             |
|---------------------|-----------------------------|
| Housing             | PBT (UL94V-0)               |
| Terminal            | Phosphor Bronze/Tin Plating |
| Wire • Housing Seal | Silicone Rubber             |

### Terminals

| Part Number | Wire Range                              | Ins. Dia. | Pcs/Reel | Gender |
|-------------|-----------------------------------------|-----------|----------|--------|
| 566-290-711 | 0.8-0.3mm <sup>2</sup><br>(AWG #22-#28) | Ø1.0~1.5  | 12,000   | Male   |
| 566-290-721 | 0.8-0.3mm <sup>2</sup><br>(AWG #22-#28) | Ø1.0~1.5  | 12,000   | Female |

### Specifications

|   |                       |                        |
|---|-----------------------|------------------------|
| 1 | Circuits              | 2, 3, 4P               |
| 2 | Pitch                 | 2.0mm                  |
| 3 | Rated Voltage         | 250V                   |
| 4 | Rated Current         | 2A max.                |
| 5 | Withstand Voltage     | AC1000V r.m.s.         |
| 6 | Contact Resistance    | 10m Ω max.             |
| 7 | Insulation Resistance | 1000M Ω min. /DC 500 V |
| 8 | Temperature Range     | -40°C ~+ 105°C         |
| 9 | Waterproof Grade      | IP67                   |



566-290-711

566-290-721

### Internal Wire Seal

| Insulation Diameter | Color      | Applicable Terminal |
|---------------------|------------|---------------------|
| Ø1.0 ~ Ø1.25        | Light Blue | 566-290-711         |
| Ø1.25 ~ Ø1.5        | Orange     | 566-290-721         |

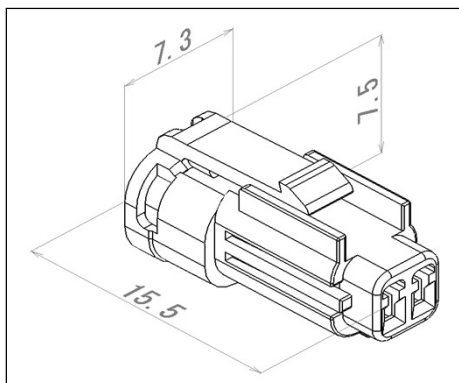
Terminals are also available in strips of 50 pieces.  
Contact Edac for more information.

### Waterproofing Cap

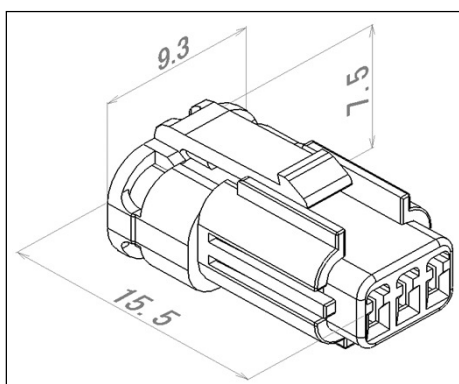
566-200-100

## Female Housing

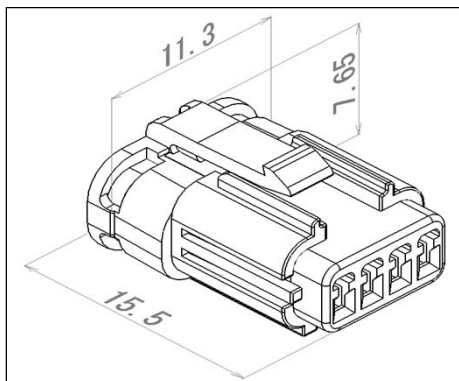
566-002-000-XXX



566-003-000-XXX



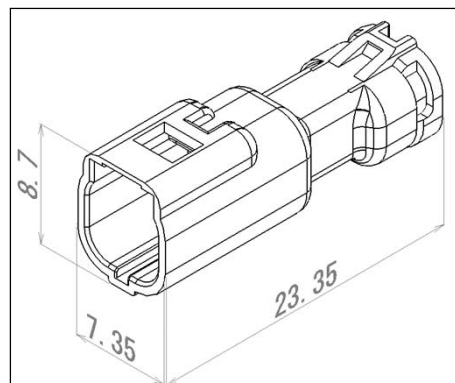
566-004-000-XXX



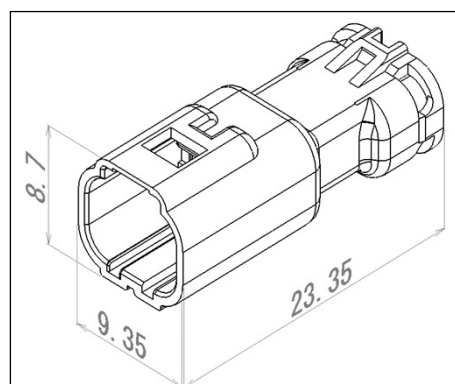
| Insulation Diameter | "XXX" |
|---------------------|-------|
| Ø 1.0mm to Ø 1.25mm | 810   |
| Ø 1.25mm to Ø 1.5mm | 811   |

## Male Housing

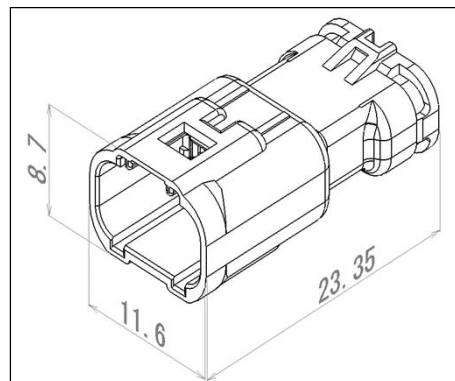
566-002-000-XXX



566-003-000-XXX

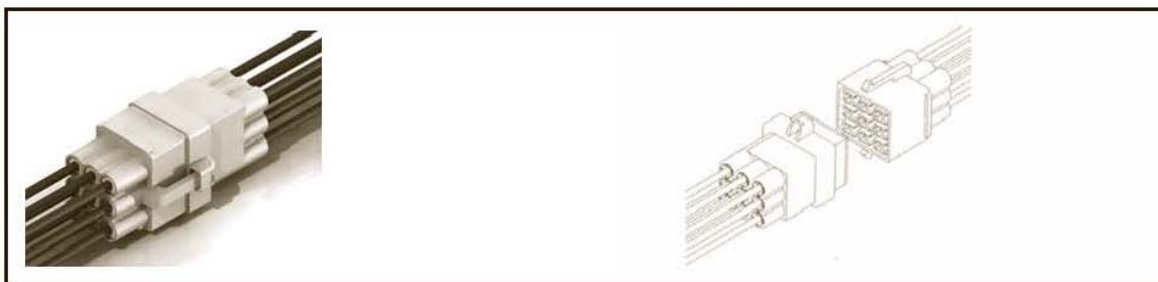


566-004-000-XXX



| Insulation Diameter | "XXX" |
|---------------------|-------|
| Ø 1.0mm to Ø 1.25mm | 710   |
| Ø 1.25mm to Ø 1.5mm | 711   |

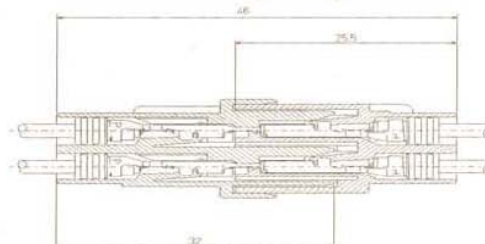
IP52 CERTIFIED



### Features

- 5.0mm pitch, Rated current: 5A Max
- Splash proof solution from 1 to 9 positions
- Crimp and poke with various sized wire seals available
- Available with wire already installed

### Assembly Layout



### Materials

|                     |                                       |
|---------------------|---------------------------------------|
| Housing             | PBT (UL94V-0)                         |
| Terminal            | Brass,<br>Phosphor Bronze/Tin Plating |
| Wire - Housing Seal | Silicone Rubber                       |

### Terminals

| Part Number | Wire Range                               | Ins. Dia. | Pcs/Reel | Gender |
|-------------|------------------------------------------|-----------|----------|--------|
| 570-290-711 | 0.3~0.5mm <sup>2</sup><br>(AWG #22~#20)  | 2.7 max   | 4,000    | Male   |
| 570-290-721 | 0.3~0.5mm <sup>2</sup><br>(AWG #22~#20)  | 2.7 max   | 4,000    | Female |
| 570-290-731 | 0.5~1.25mm <sup>2</sup><br>(AWG #20~#16) | 3.1 max   | 4,000    | Male   |
| 570-290-741 | 0.5~1.25mm <sup>2</sup><br>(AWG #20~#16) | 3.1 max   | 4,000    | Female |
| 570-290-751 | 2.0mm <sup>2</sup><br>(AWG #14)          | 3.1 max   | 4,000    | Male   |
| 570-290-761 | 2.0mm <sup>2</sup><br>(AWG #14)          | 3.1 max   | 4,000    | Female |

### Specifications

|   |                       |                       |
|---|-----------------------|-----------------------|
| 1 | Circuits              | 1,2,3,4,6,9P          |
| 2 | Pitch                 | 5.0X5.9mm             |
| 3 | Rated Voltage         | 300V                  |
| 4 | Rated Current         | 5A max.               |
| 5 | Withstand Voltage     | AC1700V r.m.s.        |
| 6 | Contact Resistance    | 10m Ω max.            |
| 7 | Insulation Resistance | 1000M Ω min./DC 500 V |
| 8 | Temperature Range     | -40°C ~+ 105°C        |
| 9 | Waterproof Grade      | IP 52                 |

Terminals are also available in strips of 50 pieces.  
Contact Edac for more information.

### Wire Seal

| Part Number | Ins. Dia.   | Color | Pcs   |
|-------------|-------------|-------|-------|
| 570-260-001 | Ø 1.7 ~ 2.1 | Black | 1,000 |
| 570-260-002 | Ø 2.1 ~ 2.7 | Blue  | 1,000 |
| 570-260-003 | Ø 2.1 ~ 2.7 | Blue  | 1,000 |
| 570-260-004 | Ø 2.7 ~ 3.1 | Brown | 1,000 |

570-260-001  
570-260-002

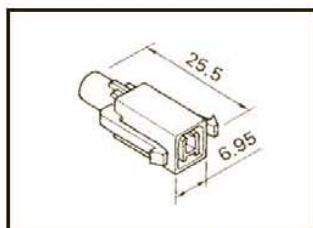
570-260-003

570-260-004

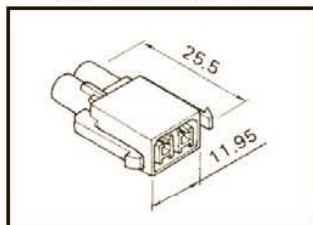


## Female Housing

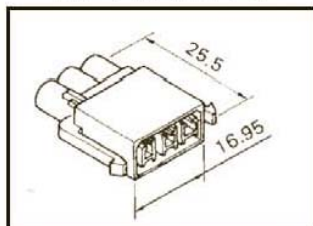
567-001-000-410



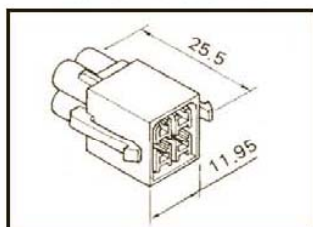
567-002-000-410



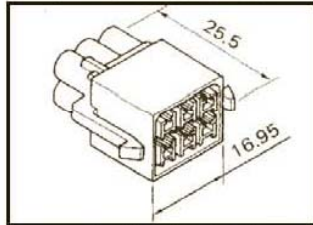
567-003-000-410



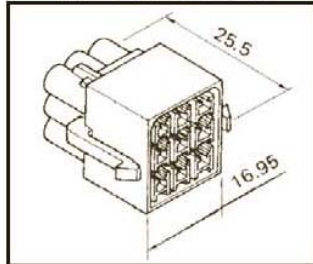
567-004-000-410



567-006-000-410

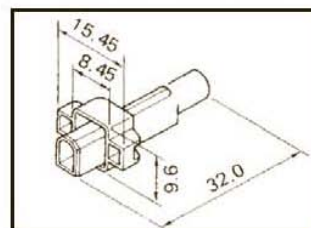


567-009-000-410

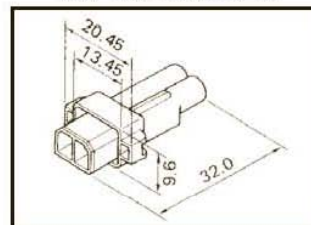


## Male Housing

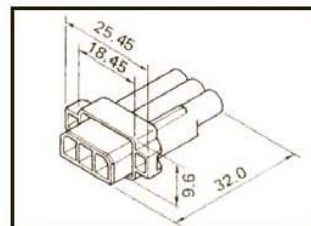
567-001-000-310



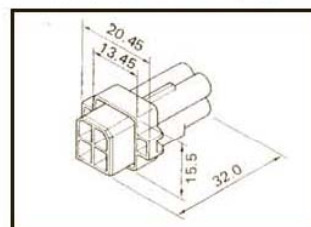
567-002-000-310



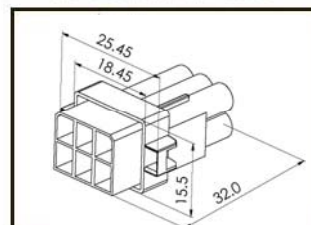
567-003-000-310



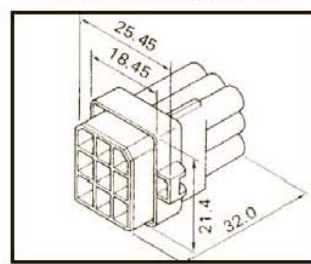
567-004-000-310



567-006-000-310



567-009-000-310



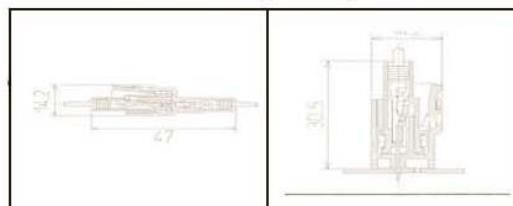
IP67 CERTIFIED



## Features

- 5.8mm pitch, Rated current: 10A Max
- Waterproof solution from 1 to 3 positions
- Wide range of wire sizes available
- Wire to wire and board mount options available
- Available with wire already installed

## Assembly Layout



## Materials

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Housing           | PBT (UL94V-0)                                   |
| Terminal          | Phosphor Bronze/Tin Plating                     |
| PCB Header        | PBT with glass (UL94V-0)<br>Brass / Tin Plating |
| Wire-Housing Seal | Silicone Rubber                                 |

## Terminals

| Part Number | Wire Range                               | Ins. Dia. | Pcs/Reel | Gender |
|-------------|------------------------------------------|-----------|----------|--------|
| 570-290-711 | 0.3~0.5mm <sup>2</sup><br>(AWG #22~#20)  | 2.7 max   | 4,000    | Male   |
| 570-290-721 | 0.3~0.5mm <sup>2</sup><br>(AWG #22~#20)  | 2.7 max   | 4,000    | Female |
| 570-290-731 | 0.5~1.25mm <sup>2</sup><br>(AWG #20~#16) | 3.1 max   | 4,000    | Male   |
| 570-290-741 | 0.5~1.25mm <sup>2</sup><br>(AWG #20~#16) | 3.1 max   | 4,000    | Female |
| 570-290-751 | 2.0mm <sup>2</sup><br>(AWG #14)          | 3.1 max   | 4,000    | Male   |
| 570-290-761 | 2.0mm <sup>2</sup><br>(AWG #14)          | 3.1 max   | 4,000    | Female |

## Specifications

|    |                       |                        |
|----|-----------------------|------------------------|
| 1  | Circuits              | 1,2,3P                 |
| 2  | Pitch                 | 5.8mm                  |
| 3  | Rated Voltage         | 300V                   |
| 4  | Rated Current         | 10A max.               |
| 5  | Withstand Voltage     | AC1700V r.m.s.         |
| 6  | Contact Resistance    | 10m Ω max.             |
| 7  | Insulation Resistance | 1000M Ω min. /DC 500 V |
| 8  | Temperature Range     | -40°C ~+ 105°C         |
| 9  | Waterproof Grade      | IP67                   |
| 10 | PCB Thickness         | 1.6mm                  |

Terminals are also available in strips of 50 pieces.  
Contact Edac for more information.

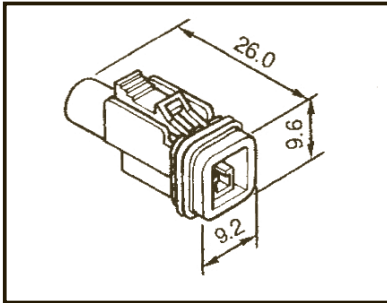
## Wire Seal

| Part Number                | Ins. Dia.   | Color       | Pcs   |
|----------------------------|-------------|-------------|-------|
| 570-260-001                | Ø 1.7 ~ 2.1 | Black       | 1,000 |
| 570-260-002                | Ø 2.1 ~ 2.7 | Blue        | 1,000 |
| 570-260-003                | Ø 2.1 ~ 2.7 | Blue        | 1,000 |
| 570-260-004                | Ø 2.7 ~ 3.1 | Brown       | 1,000 |
| 570-260-001<br>570-260-002 | 570-260-003 | 570-260-004 |       |



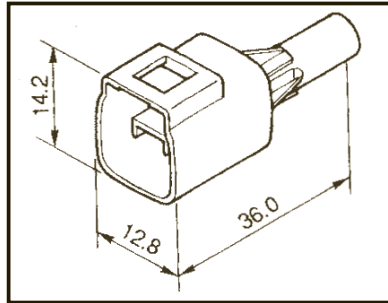
## Female Housing

570-001-000-200



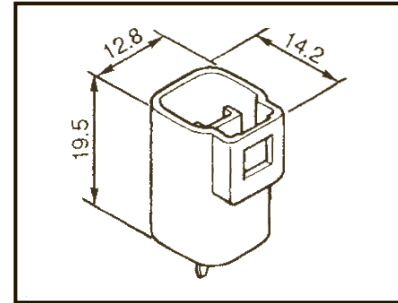
## Male Housing

570-001-000-100

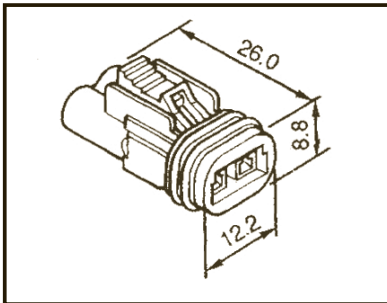


## PCB Header

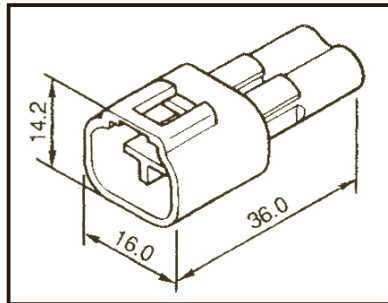
570-001-420-101



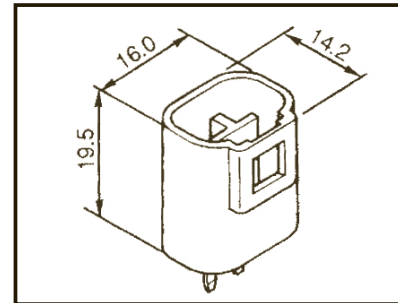
570-002-000-200



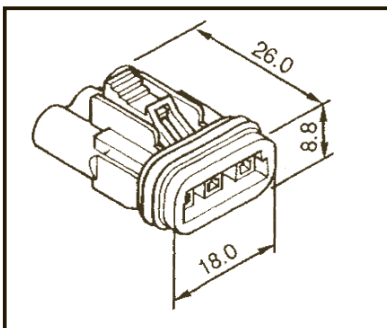
570-002-000-100



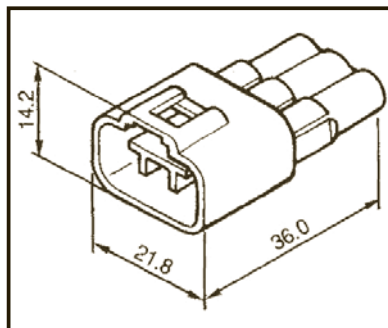
570-002-420-101



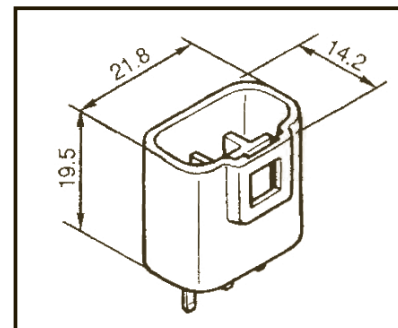
570-003-000-200



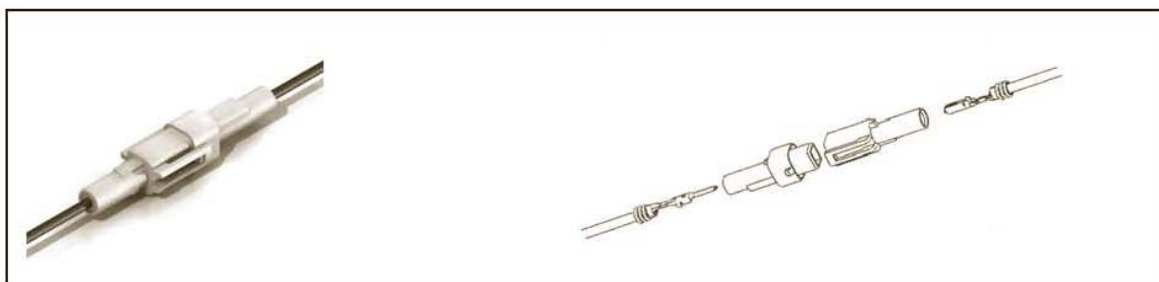
570-003-000-100



570-003-420-101



IP67 CERTIFIED



### Features

- Rated current: 12A Max
- Fully Waterproof solution for single position
- Accommodates wide range of wire sizes
- True crimp and poke solution
- Available with wire already installed

### Materials

|                     |                             |
|---------------------|-----------------------------|
| Housing             | PBT (UL94V-0)               |
| Terminal            | Phosphor Bronze/Tin Plating |
| Wire • Housing Seal | Silicone Rubber             |

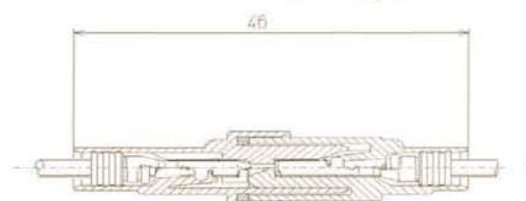
### Specifications

|   |                       |                        |
|---|-----------------------|------------------------|
| 1 | Circuits              | 1P                     |
| 2 | Rated Voltage         | 300V                   |
| 3 | Rated Current         | 12A max.               |
| 4 | Withstand Voltage     | AC1700V r.m.s.         |
| 5 | Contact Resistance    | 10m Ω max.             |
| 6 | Insulation Resistance | 1000M Ω min. /DC 500 V |
| 7 | Temperature Range     | -40°C ~+ 105°C         |
| 8 | Waterproof Grade      | IP67                   |

### Wire Seal

| Part Number | Ins. Dia.   | Color | Pcs   |
|-------------|-------------|-------|-------|
| 570-260-001 | Ø 1.7 ~ 2.1 | Black | 1,000 |
| 570-260-002 | Ø 2.1 ~ 2.7 | Blue  | 1,000 |
| 570-260-003 | Ø 2.1 ~ 2.7 | Blue  | 1,000 |
| 570-260-004 | Ø 2.7 ~ 3.1 | Brown | 1,000 |

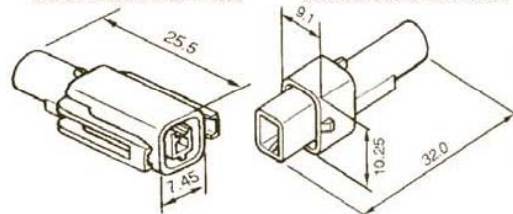
### Assembly Layout



### Housing

568-001-000-200

568-001-000-100



### Terminals

| Part Number | Wire Range                               | Ins. Dia. | Pcs/Reel | Gender |
|-------------|------------------------------------------|-----------|----------|--------|
| 570-290-711 | 0.3~0.5mm <sup>2</sup><br>(AWG #22~#20)  | 2.7 max   | 4,000    | Male   |
| 570-290-721 | 0.3~0.5mm <sup>2</sup><br>(AWG #22~#20)  | 2.7 max   | 4,000    | Female |
| 570-290-731 | 0.5~1.25mm <sup>2</sup><br>(AWG #20~#16) | 3.1 max   | 4,000    | Male   |
| 570-290-741 | 0.5~1.25mm <sup>2</sup><br>(AWG #20~#16) | 3.1 max   | 4,000    | Female |
| 570-290-751 | 2.0mm <sup>2</sup><br>(AWG #14)          | 3.1 max   | 4,000    | Male   |
| 570-290-761 | 2.0mm <sup>2</sup><br>(AWG #14)          | 3.1 max   | 4,000    | Female |

570-260-001  
570-260-002

570-260-003

570-260-004



Terminals are also available in strips of 50 pieces.  
Contact Edac for more information.

## **Automatic Contact Crimp Machine**

- Applicators available to crimp all series contacts
- All required guards for operator safety
- Easy access for all setting changes
- Foot switch to initiate crimp cycle
- Mounts to any bench surface
- Quick change applicators allow for fast conversions from one contact type to another

## **One-touch Applicators**

- Quick change applicators available for all contacts
- Also fits most universal automatic processing machines
- Quick set up time; crimp height and feed adjustment can be set without removing applicator from press
- Independent adjustment control allows user to quickly adjust the conductor or insulation crimp height without affecting each other

## **Contact Hand Crimp Tool**

- Manual hand crimp tool
- Used for contacts on carrier strip.
- Cuts the contacts from the carrier strip

## **Contact Ejection Tool**

- Tool to remove previously inserted contact from connector housing

## **Retainer Insertion Tool**

- Tool to insert retainer into connector housing to ensure water tight seal
- Used for high volume production

**Contact Edac for more information**



#### **AMERICAS**

**Phone: (416) 754-3322**

**Fax: (416) 754-3299**

**Email: [customerservice@edac.net](mailto:customerservice@edac.net)**

#### **EUROPE**

**Phone: +44 (0) 1908 569333**

**Fax: +44 (0) 1908 569444**

**Email: [info@edac.co.uk](mailto:info@edac.co.uk)**

#### **ASIA**

**Phone: +886 (0) 2-8809-1480**

**Fax: +886 (0) 2-8809-1460**

**Email: [info@edac-tw.com](mailto:info@edac-tw.com)**