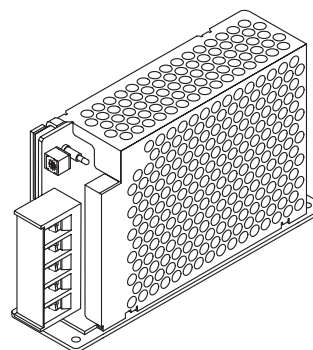


# PB · PMA Series Attachment

## BASE Attachment

| Plate model | Applicable to model    |
|-------------|------------------------|
| F-PBA10-1   | PBA10F                 |
| F-PBA15-1   | PBA15F, PBW15F         |
| F-PBA30-1   | PBA30F, PBW30F, PMA15F |
| F-PBA50-1   | PBA50F, PBW50F, PMA30F |
| F-PBA75-1   | PBA75F, PMA60F         |
| F-PBA100-1  | PBA100F                |
| F-PBA150-1  | PBA150F, PMA100F       |

Example



&lt; TOP VIEW &gt; (Unit : mm) (Tolerance : ±1)

|                                                                                    |                                                                                    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <p><b>F-PBA10-1</b></p> <p>Size</p> <p>★ Material : SECC<br/>★ Thickness : 2.0</p> | <p><b>F-PBA15-1</b></p> <p>Size</p> <p>★ Material : SECC<br/>★ Thickness : 2.0</p> |
| <p>★ M3 × 6ℓ Flat screw is requested when mounting.</p>                            |                                                                                    |
| <p>Mounting hole size</p> <p>FRONT←</p>                                            | <p>Mounting hole size</p> <p>FRONT←</p>                                            |
| <p><b>F-PBA30-1</b></p> <p>Size</p> <p>★ Material : SECC<br/>★ Thickness : 2.0</p> | <p><b>F-PBA50-1</b></p> <p>Size</p> <p>★ Material : SECC<br/>★ Thickness : 2.0</p> |
| <p>★ M3 × 6ℓ Flat screw is requested when mounting.</p>                            |                                                                                    |
| <p>Mounting hole size</p> <p>FRONT←</p>                                            | <p>Mounting hole size</p> <p>FRONT←</p>                                            |

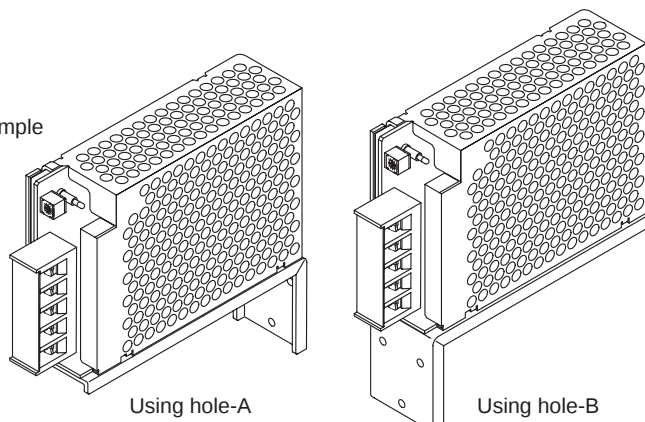
〈 TOP VIEW 〉 (Unit : mm) (Tolerance : ±1)

|                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p><b>F-PBA75-1</b></p> <p>Size</p> <p>* Material : SECC<br/>* Thickness : 2.0</p>  | <p><b>F-PBA100-1</b></p> <p>Size</p> <p>* Material : SECC<br/>* Thickness : 2.0</p> |
| <p>* M3 × 6ℓ Flat screw is requested when mounting.</p>                             |                                                                                     |
| <p>Mounting hole size</p> <p>FRONT ←</p>                                            | <p>Mounting hole size</p> <p>FRONT ←</p>                                            |
| <p><b>F-PBA150-1</b></p> <p>Size</p> <p>* Material : SECC<br/>* Thickness : 2.0</p> |                                                                                     |
| <p>* M3 × 6ℓ Flat screw is requested when mounting.</p>                             |                                                                                     |
| <p>Mounting hole size</p> <p>FRONT ←</p>                                            |                                                                                     |

## FRONT • REVERSE Attachment

| Plate model | Applicable to model    |
|-------------|------------------------|
| F-PBA10-2   | PBA10F                 |
| F-PBA15-2   | PBA15F, PBW15F         |
| F-PBA30-2   | PBA30F, PBW30F, PMA15F |
| F-PBA50-2   | PBA50F, PBW50F, PMA30F |
| F-PBA75-2   | PBA75F, PMA60F         |
| F-PBA100-2  | PBA100F                |
| F-PBA150-2  | PBA150F, PMA100F       |

Example



Using hole-A

Using hole-B

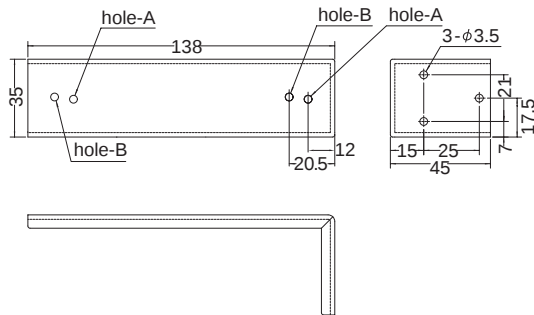
〈 TOP VIEW 〉 (Unit : mm) (Tolerance : ±1)

| F-PBA10-2                                                  | F-PBA15-2                                                  |
|------------------------------------------------------------|------------------------------------------------------------|
| <p>Size</p> <p>★ Material : SECC<br/>★ Thickness : 1.6</p> | <p>Size</p> <p>★ Material : SECC<br/>★ Thickness : 1.6</p> |
| F-PBA30-2                                                  | F-PBA50-2                                                  |
| <p>Size</p> <p>★ Material : SECC<br/>★ Thickness : 1.6</p> | <p>Size</p> <p>★ Material : SECC<br/>★ Thickness : 2.0</p> |

< TOP VIEW > (Unit : mm) (Tolerance : ±1)

F-PBA75-2

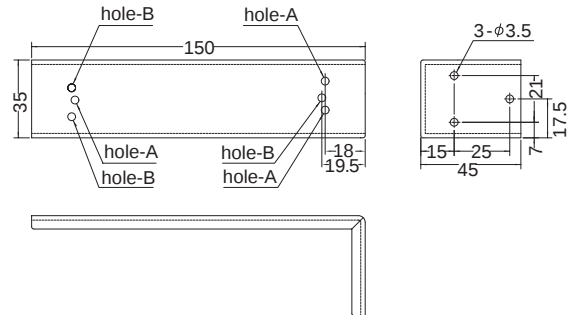
Size



★ Material : SECC  
★ Thickness : 2.0

F-PBA100-2

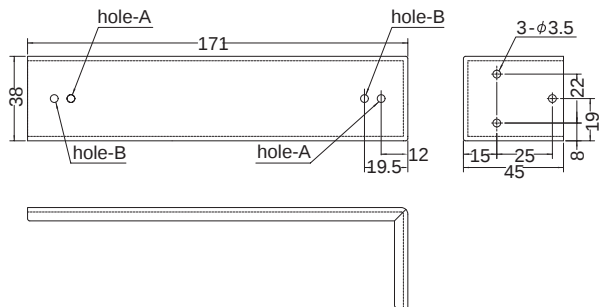
Size



★ Material : SECC  
★ Thickness : 2.0

F-PBA150-2

Size



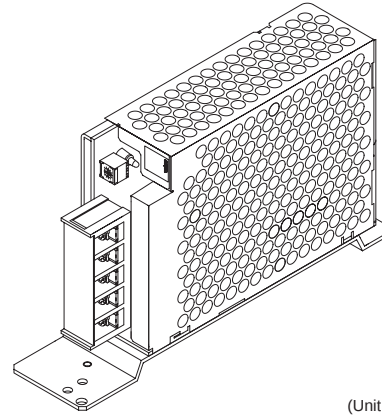
★ Material : SECC  
★ Thickness : 2.0

# Attachment for Replacement

This is an attachment when replacing to PBA series from P・PAA series.

| Plate model | Applicable to model     |
|-------------|-------------------------|
| F-PPBA15-1  | P15 → PBA15F            |
| F-PPBA30-1  | P30 → PBA30F            |
| F-PPBA50-1  | P50, PAA50F → PBA50F    |
| F-PPBA75-1  | PAA75F → PBA75F         |
| F-PPBA100-1 | P100, PAA100F → PBA100F |
| F-PPBA150-1 | P150, PAA150F → PBA150F |

Example  
(PBA50F)



(Unit : mm) (Tolerance : ±1)

| F-PPBA15-1                                       |                                                                                  | F-PPBA30-1         |                                                                                  |
|--------------------------------------------------|----------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------|
| Size                                             | <p>★ Material : SECC<br/>★ Thickness : 1.6</p>                                   | Size               | <p>★ Material : SECC<br/>★ Thickness : 1.6</p>                                   |
| Mounting                                         | <p>(BOTTOM VIEW)</p> <p>When change to PBA15F, external size becomes larger.</p> | Mounting           | <p>(BOTTOM VIEW)</p> <p>When change to PBA30F, external size becomes larger.</p> |
| ★ M3 × 8ℓ Flat screw is requested when mounting. |                                                                                  |                    |                                                                                  |
| Mounting hole size                               | <p>FRONT ←</p>                                                                   | Mounting hole size | <p>FRONT ←</p>                                                                   |

(Unit : mm) (Tolerance : ±1)

|                                                                                                                         |                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p><b>F-PPBA50-1</b></p> <p>Size</p> <p>Mounting</p> <p>(SIDE VIEW)</p> <p>★ Material : SECC<br/>★ Thickness : 1.6</p>  | <p><b>F-PPBA75-1</b></p> <p>Size</p> <p>★ Material : SECC<br/>★ Thickness : 1.6</p>  |
| <p>★ M3 × 8ℓ Flat screw is requested when mounting.</p>                                                                 |                                                                                      |
| <p>Mounting hole size</p> <p>FRONT ←</p>                                                                                | <p>Mounting hole size</p> <p>FRONT ←</p>                                             |
| <p><b>F-PPBA100-1</b></p> <p>Size</p> <p>Mounting</p> <p>(SIDE VIEW)</p> <p>★ Material : SECC<br/>★ Thickness : 1.6</p> | <p><b>F-PPBA150-1</b></p> <p>Size</p> <p>★ Material : SECC<br/>★ Thickness : 1.6</p> |
| <p>★ M3 × 8ℓ Flat screw is requested when mounting.</p>                                                                 |                                                                                      |
| <p>Mounting hole size</p> <p>FRONT ←</p>                                                                                | <p>Mounting hole size</p> <p>FRONT ←</p>                                             |

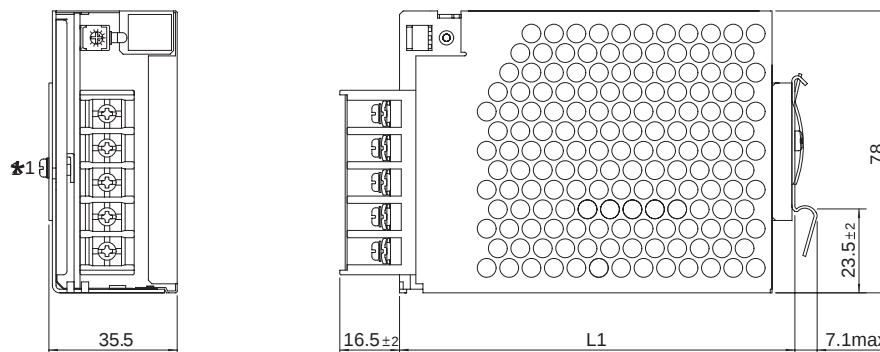
## Din rail Attachment Plate(PB Series)

### APPLICABLE TO MODEL

Din rail width : 35mm

| Plate model | Model                  | screws for installation |      |
|-------------|------------------------|-------------------------|------|
|             |                        | Type                    | Qty  |
| FD-PBA10    | PBA10F                 | M3                      | 2pcs |
| FD-PBA15    | PBA15F, PBW15F         |                         |      |
| FD-PBA30    | PBA30F, PBW30F         |                         |      |
| FD-PBA50    | PBA50F, PBW50F, PBA75F |                         |      |
| FD-PBA100   | PBA100F                | M3                      | 3pcs |
|             | PBA150F                | M3                      | 2pcs |
| FD-PBA300   | PBA300F                | M4                      | 2pcs |

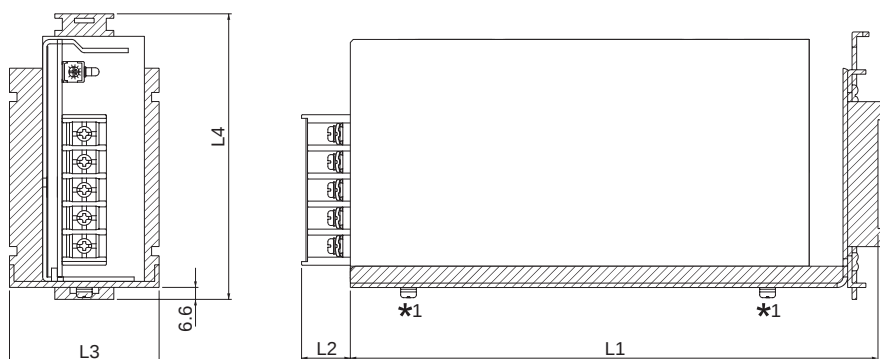
### FD-PBA10, FD-PBA15, FD-PBA30 EXTERNAL VIEW



| Plate model | Model          | L1      |
|-------------|----------------|---------|
| FD-PBA10    | PBA10F         | 75.0±2  |
| FD-PBA15    | PBA15F, PBW15F | 92.0±2  |
| FD-PBA30    | PBA30F, PBW30F | 110.0±2 |

- \* Material : SECC
- \* Thickness : 1.0
- \* Tolerance : ±1
- \*1 Screws for installation (attached to Plate)

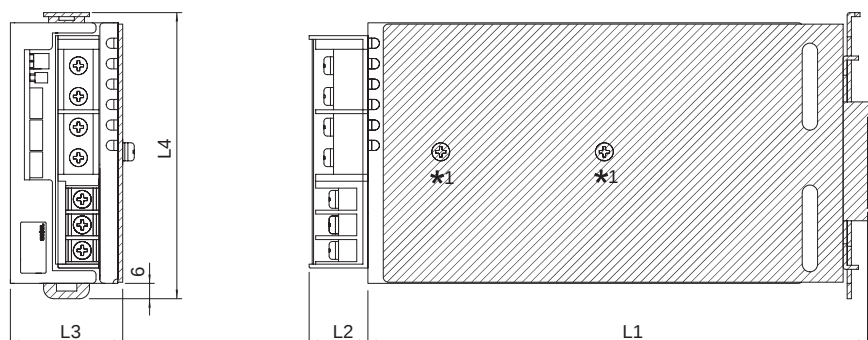
## FD-PBA50, FD-PBA100 EXTERNAL VIEW



| Plate model | Model   | L1  | L2     | L3   | L4    |
|-------------|---------|-----|--------|------|-------|
| FD-PBA50    | PBA50F  | 135 | 16.5±2 | 41   | 102.5 |
|             | PBA75F  | 150 |        |      |       |
| FD-PBA100   | PBA100F | 162 | 13.5±2 | 42.5 | 112   |
|             | PBA150F | 183 |        |      |       |

- \* Material : SECC
- \* Thickness : 1.6
- \* Tolerance : ±1
- \*1 Screws for installation (attached to Plate)

## FD-PBA300 EXTERNAL VIEW



| Plate model | Model   | L1    | L2    | L3 | L4  |
|-------------|---------|-------|-------|----|-----|
| FD-PBA300   | PBA300F | 195.5 | 25max | 44 | 112 |

- \* Material : SPHC
- \* Thickness : 2.0
- \* Tolerance : ±1
- \*1 Screws for installation (attached to Plate)

Harness to use the function is prepared in PB series.

## PB Series

### Mating harness

| Model                                                                               | Harness model #  | Contents                                                          |
|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------|
| PBA10F, PBA15F, PBW15F, PBA30F, PBW30F, PBA50F, PBW50F, PBA75F, PBA100F, PBA150F ★1 | H-IN-1 or H-IN-8 | Input harness when I/O interface is connector type (option : -J)  |
| PBA10F, PBA15F, PBA30F, PBA50F                                                      | H-OU-20          | Output harness when I/O interface is connector type (option : -J) |
| PBA75F, PBA100F, PBA150F ★1                                                         | H-OU-21          | Output harness when I/O interface is connector type (option : -J) |
| PBW15F, PBW30F, PBW50F                                                              | H-OU-27          | Output harness when I/O interface is connector type (option : -J) |
| PBA50F, PBW50F, PBA75F, PBA100F, PBA150F                                            | H-RC-1           | Harness for using option : -R                                     |
| PBA100F, PBA150F ★2                                                                 | H-SN-1           | Harness for using option : -K                                     |
| PBA10F, PBA15F, PBW15F, PBA30F, PBW30F, PBA50F, PBW50F, PBA75F, PBA100F, PBA150F    | H-SN-18          | Harness for using option : -V                                     |
| PBA300F                                                                             | H-PA-3           | Harness for parallel operation                                    |
| PBA600F                                                                             | H-SN-20          | Harness for using all functions of CN1 and CN2                    |
| PBA1000F                                                                            | H-SN-21          | Harness for using all functions except remote sensing of CN2      |
| PBA1500F                                                                            | H-SN-22          | Harness for using all functions of CN3                            |
| PBA1500T                                                                            | H-SN-24          | Harness for using example remote ON/OFF circuit (C)               |

★1 Available for 12V, 15V, 24V, 36V and 48V output model in PBA100F / 150F.

★2 Available for 3.3V and 5V output model in PBA100F / 150F.

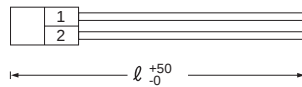
| <div>●Model number</div> <div>H-IN-1</div> <div>Housing : 10-63-3044 (Molex)<br/>Pin : 08-70-1030 or 08-70-1031 (Molex)</div>  | <div>●Type</div> <div></div> | <div>●Wire</div> <table><tr><th>Pin #</th><th>Wire</th><th>AWG</th><th>Color</th><th>Length ℓ (mm)</th></tr><tr><td>1</td><td>UL1015</td><td>20</td><td>green</td><td>500</td></tr><tr><td>2</td><td>UL1015</td><td>20</td><td>black</td><td>500</td></tr><tr><td>3</td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td>UL1015</td><td>20</td><td>white</td><td>500</td></tr></table>                                                                                                                                                         | Pin #        | Wire          | AWG | Color | Length ℓ (mm) | 1 | UL1015 | 20 | green        | 500 | 2 | UL1015 | 20 | black | 500 | 3 |        |    |       |     | 4 | UL1015 | 20 | white  | 500 |   |        |    |       |     |   |        |    |       |     |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|-----|-------|---------------|---|--------|----|--------------|-----|---|--------|----|-------|-----|---|--------|----|-------|-----|---|--------|----|--------|-----|---|--------|----|-------|-----|---|--------|----|-------|-----|
| Pin #                                                                                                                          | Wire                         | AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Color        | Length ℓ (mm) |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 1                                                                                                                              | UL1015                       | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | green        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 2                                                                                                                              | UL1015                       | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | black        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 3                                                                                                                              |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |               |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 4                                                                                                                              | UL1015                       | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | white        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| <div>●Model number</div> <div>H-IN-8</div> <div>Housing : 10-63-3044 (Molex)<br/>Pin : 08-70-1030 or 08-70-1031 (Molex)</div>  | <div>●Type</div> <div></div> | <div>●Wire</div> <table><tr><th>Pin #</th><th>Wire</th><th>AWG</th><th>Color</th><th>Length ℓ (mm)</th></tr><tr><td>1</td><td>UL1015</td><td>20</td><td>green/yellow</td><td>500</td></tr><tr><td>2</td><td>UL1015</td><td>20</td><td>black</td><td>500</td></tr><tr><td>3</td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td>UL1015</td><td>20</td><td>white</td><td>500</td></tr></table>                                                                                                                                                  | Pin #        | Wire          | AWG | Color | Length ℓ (mm) | 1 | UL1015 | 20 | green/yellow | 500 | 2 | UL1015 | 20 | black | 500 | 3 |        |    |       |     | 4 | UL1015 | 20 | white  | 500 |   |        |    |       |     |   |        |    |       |     |
| Pin #                                                                                                                          | Wire                         | AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Color        | Length ℓ (mm) |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 1                                                                                                                              | UL1015                       | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | green/yellow | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 2                                                                                                                              | UL1015                       | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | black        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 3                                                                                                                              |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |               |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 4                                                                                                                              | UL1015                       | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | white        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| <div>●Model number</div> <div>H-OU-20</div> <div>Housing : 09-50-1043 (Molex)<br/>Pin : 08-70-1030 or 08-70-1031 (Molex)</div> | <div>●Type</div> <div></div> | <div>●Wire</div> <table><tr><th>Pin #</th><th>Wire</th><th>AWG</th><th>Color</th><th>Length ℓ (mm)</th></tr><tr><td>1</td><td>UL1015</td><td>18</td><td>red</td><td>500</td></tr><tr><td>2</td><td>UL1015</td><td>18</td><td>red</td><td>500</td></tr><tr><td>3</td><td>UL1015</td><td>18</td><td>black</td><td>500</td></tr><tr><td>4</td><td>UL1015</td><td>18</td><td>black</td><td>500</td></tr></table>                                                                                                                                             | Pin #        | Wire          | AWG | Color | Length ℓ (mm) | 1 | UL1015 | 18 | red          | 500 | 2 | UL1015 | 18 | red   | 500 | 3 | UL1015 | 18 | black | 500 | 4 | UL1015 | 18 | black  | 500 |   |        |    |       |     |   |        |    |       |     |
| Pin #                                                                                                                          | Wire                         | AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Color        | Length ℓ (mm) |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 1                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | red          | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 2                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | red          | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 3                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | black        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 4                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | black        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| <div>●Model number</div> <div>H-OU-21</div> <div>Housing : 09-50-1063 (Molex)<br/>Pin : 08-70-1030 or 08-70-1031 (Molex)</div> | <div>●Type</div> <div></div> | <div>●Wire</div> <table><tr><th>Pin #</th><th>Wire</th><th>AWG</th><th>Color</th><th>Length ℓ (mm)</th></tr><tr><td>1</td><td>UL1015</td><td>18</td><td>red</td><td>500</td></tr><tr><td>2</td><td>UL1015</td><td>18</td><td>red</td><td>500</td></tr><tr><td>3</td><td>UL1015</td><td>18</td><td>red</td><td>500</td></tr><tr><td>4</td><td>UL1015</td><td>18</td><td>black</td><td>500</td></tr><tr><td>5</td><td>UL1015</td><td>18</td><td>black</td><td>500</td></tr><tr><td>6</td><td>UL1015</td><td>18</td><td>black</td><td>500</td></tr></table> | Pin #        | Wire          | AWG | Color | Length ℓ (mm) | 1 | UL1015 | 18 | red          | 500 | 2 | UL1015 | 18 | red   | 500 | 3 | UL1015 | 18 | red   | 500 | 4 | UL1015 | 18 | black  | 500 | 5 | UL1015 | 18 | black | 500 | 6 | UL1015 | 18 | black | 500 |
| Pin #                                                                                                                          | Wire                         | AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Color        | Length ℓ (mm) |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 1                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | red          | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 2                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | red          | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 3                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | red          | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 4                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | black        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 5                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | black        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 6                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | black        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| <div>●Model number</div> <div>H-OU-27</div> <div>Housing : 09-50-1043 (Molex)<br/>Pin : 08-70-1030 or 08-70-1031 (Molex)</div> | <div>●Type</div> <div></div> | <div>●Wire</div> <table><tr><th>Pin #</th><th>Wire</th><th>AWG</th><th>Color</th><th>Length ℓ (mm)</th></tr><tr><td>1</td><td>UL1015</td><td>18</td><td>red</td><td>500</td></tr><tr><td>2</td><td>UL1015</td><td>18</td><td>black</td><td>500</td></tr><tr><td>3</td><td>UL1015</td><td>18</td><td>black</td><td>500</td></tr><tr><td>4</td><td>UL1015</td><td>18</td><td>purple</td><td>500</td></tr></table>                                                                                                                                          | Pin #        | Wire          | AWG | Color | Length ℓ (mm) | 1 | UL1015 | 18 | red          | 500 | 2 | UL1015 | 18 | black | 500 | 3 | UL1015 | 18 | black | 500 | 4 | UL1015 | 18 | purple | 500 |   |        |    |       |     |   |        |    |       |     |
| Pin #                                                                                                                          | Wire                         | AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Color        | Length ℓ (mm) |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 1                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | red          | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 2                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | black        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 3                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | black        | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |
| 4                                                                                                                              | UL1015                       | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | purple       | 500           |     |       |               |   |        |    |              |     |   |        |    |       |     |   |        |    |       |     |   |        |    |        |     |   |        |    |       |     |   |        |    |       |     |

●Model number

## H-RC-1

Housing : XHP-2 (J.S.T.)  
Pin : SXH-001T-P0.6 (J.S.T.)

●Type



●Wire

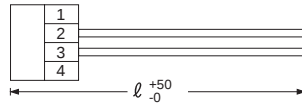
| Pin # | Wire   | AWG | Color  | Length<br>ℓ (mm) |
|-------|--------|-----|--------|------------------|
| 1     | UL1007 | 22  | orange | 500              |
| 2     | UL1007 | 22  | blue   | 500              |

●Model number

## H-SN-1

Housing : XHP-4 (J.S.T.)  
Pin : SXH-001T-P0.6 (J.S.T.)

●Type



●Wire

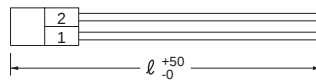
| Pin # | Wire   | AWG | Color | Length<br>ℓ (mm) |
|-------|--------|-----|-------|------------------|
| 1     |        |     |       |                  |
| 2     | UL1061 | 28  | black | 500              |
| 3     | UL1061 | 28  | red   | 500              |
| 4     |        |     |       |                  |

●Model number

## H-SN-18

Housing : PHR-2 (J.S.T.)  
Pin : SPH-002T-P0.5S (J.S.T.)

●Type



●Wire

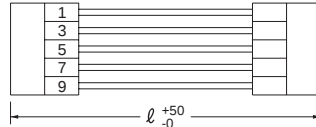
| Pin # | Wire   | AWG | Color  | Length<br>ℓ (mm) |
|-------|--------|-----|--------|------------------|
| 1     | UL1007 | 26  | yellow | 500              |
| 2     | UL1007 | 26  | orange | 500              |

●Model number

## H-PA-3

Housing : PHDR-10VS(J.S.T)  
Pin : SPHD-002T-P0.5(J.S.T)

●Type



●Wire

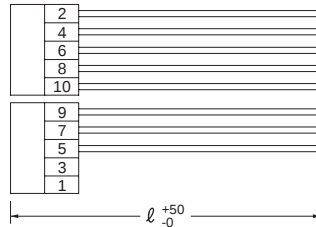
| Pin # | Wire   | AWG | Color  | Length<br>ℓ (mm) |
|-------|--------|-----|--------|------------------|
| 1     | -      | -   | -      | -                |
| 2     | UL1061 | 28  | red    | 270              |
| 3     | -      | -   | -      | -                |
| 4     | UL1061 | 28  | black  | 270              |
| 5     | UL1061 | 28  | yellow | 270              |
| 6     | UL1061 | 28  | green  | 270              |
| 7     | UL1061 | 28  | blue   | 270              |
| 8     | -      | -   | -      | -                |
| 9     | UL1061 | 28  | orange | 270              |
| 10    | UL1061 | 28  | purple | 270              |

●Model number

## H-SN-20

Housing : PHDR-10VS(J.S.T)  
Pin : SPHD-002T-P0.5(J.S.T)

●Type



●Wire

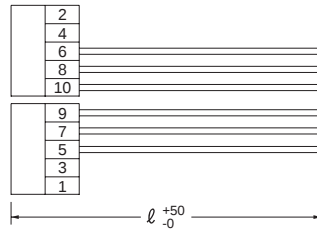
| Pin # | Wire   | AWG | Color  | Length<br>ℓ (mm) |
|-------|--------|-----|--------|------------------|
| 1     | -      | -   | -      | -                |
| 2     | UL1061 | 28  | red    | 500              |
| 3     | -      | -   | -      | -                |
| 4     | UL1061 | 28  | black  | 500              |
| 5     | UL1061 | 28  | yellow | 500              |
| 6     | UL1061 | 28  | green  | 500              |
| 7     | UL1061 | 28  | blue   | 500              |
| 8     | UL1061 | 28  | black  | 500              |
| 9     | UL1061 | 28  | orange | 500              |
| 10    | UL1061 | 28  | purple | 500              |

●Model number

## H-SN-21

Housing : PHDR-10VS(J.S.T)  
Pin : SPHD-002T-P0.5(J.S.T)

●Type



●Wire

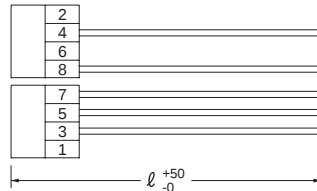
| Pin # | Wire   | AWG | Color  | Length<br>ℓ (mm) |
|-------|--------|-----|--------|------------------|
| 1     | -      | -   | -      | -                |
| 2     | -      | -   | -      | -                |
| 3     | -      | -   | -      | -                |
| 4     | -      | -   | -      | -                |
| 5     | UL1061 | 28  | yellow | 500              |
| 6     | UL1061 | 28  | green  | 500              |
| 7     | UL1061 | 28  | blue   | 500              |
| 8     | UL1061 | 28  | black  | 500              |
| 9     | UL1061 | 28  | orange | 500              |
| 10    | UL1061 | 28  | purple | 500              |

●Model number

## H-SN-22

Housing : PHDR-8VS(J.S.T)  
Pin : SPHD-002T-P0.5(J.S.T)

●Type



●Wire

| Pin # | Wire   | AWG | Color  | Length<br>ℓ (mm) |
|-------|--------|-----|--------|------------------|
| 1     | -      | -   | -      | -                |
| 2     | -      | -   | -      | -                |
| 3     | UL1061 | 28  | pink   | 500              |
| 4     | UL1061 | 28  | brown  | 500              |
| 5     | UL1061 | 28  | white  | 500              |
| 6     | -      | -   | -      | -                |
| 7     | UL1061 | 28  | yellow | 500              |
| 8     | UL1061 | 28  | gray   | 500              |

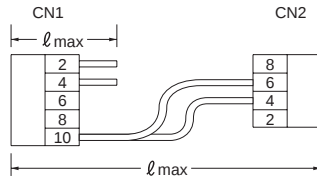
●Model number

## H-SN-24

CN1 :  
Housing : PHDR-10VS(J.S.T)  
Pin : SPHD-002T-P0.5(J.S.T)

CN2 :  
Housing : PHDR-08VS(J.S.T)  
Pin : SPHD-002T-P0.5(J.S.T)

●Type



●Wire

|     | Pin # | Wire   | AWG | Color | Length<br>ℓ (mm) |
|-----|-------|--------|-----|-------|------------------|
| CN1 | 1     | UL1061 | 28  | red   | 30               |
|     | 2     | UL1061 | 28  | red   | 30               |
|     | 3     | UL1061 | 28  | black | 30               |
|     | 4     | UL1061 | 28  | black | 30               |
|     | 5     | -      | -   | -     | -                |
|     | 6     | -      | -   | -     | -                |
|     | 7     | -      | -   | -     | -                |
|     | 8     | -      | -   | -     | -                |
|     | 9     | UL1061 | 28  | black | 70               |
|     | 10    | UL1061 | 28  | black | 70               |
| CN2 | 1     | -      | -   | -     | -                |
|     | 2     | -      | -   | -     | -                |
|     | 3     | -      | -   | -     | -                |
|     | 4     | UL1061 | 28  | black | 70               |
|     | 5     | UL1061 | 28  | black | 70               |
|     | 6     | -      | -   | -     | -                |
|     | 7     | -      | -   | -     | -                |
|     | 8     | -      | -   | -     | -                |

- \* Pin #1 and #2, Pin #3 and #4 in CN1 are connected by harness.
- \* Pin #9 in CN1 and Pin #4 in CN2 are connected by harness.
- \* Pin #10 in CN1 and Pin #5 in CN2 are connected by harness.

## Terminal Attachment

Terminal attachment to facilitate two or more terminal connections to power supply output is prepared in PAA, UAW, UAF, MAX and ACE series.

| Type       | Mating Model                                | Contents                                                                                  |
|------------|---------------------------------------------|-------------------------------------------------------------------------------------------|
| B-PAA600-1 | PAA300<br>PAA600<br>UAW500<br>UAF500        | Terminal attachment to facilitate two or more terminal connections to power supply output |
| B-MX-1     | PBA600F<br>MAX1600F<br>MAX1600T<br>MAX3200T | Terminal attachment to facilitate terminal connections to power supply output             |
| B-MX-9     | MAX1600F<br>MAX1600T<br>MAX3200T            | Terminal attachment for series operation as output modules                                |

| B-PAA600-1                                                                                                                   | B-MX-1                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <p>Size</p> <p>           * Material : Copper<br/>           * Thickness : 2.0<br/>           * Dimension in mm         </p> | <p>Size</p> <p>           * Material : Copper<br/>           * Thickness : 2.0<br/>           * Dimension in mm         </p> |

\* It is necessary to install the attachments on opposite direction to avoid short-circuit between + and - in terminal block.

| B-MX-9                                                                                                                       |  |
|------------------------------------------------------------------------------------------------------------------------------|--|
| <p>Size</p> <p>           * Material : Copper<br/>           * Thickness : 1.5<br/>           * Dimension in mm         </p> |  |

- \* It is necessary to install B-MX-1 on opposite direction to avoid short-circuit between + and - terminal block.
- \* Please note the direction of the installation to prevent the short-circuit between the outputs when using B-MX-1 and B-MX-9 at the same time.
- \* The cover of terminal block does not be attached to B-MX-1 with installation screw and solderless terminal occasionally.

| Type    | Mating Model | Contents                                                         |
|---------|--------------|------------------------------------------------------------------|
| B-ACE-7 | ACE series   | Terminal attachment to facilitate faston terminal output modules |
| B-ACE-8 | ACE series   | Terminal attachment to facilitate wiring                         |
| B-ACE-9 | ACE series   | Terminal attachment for series opration as output modules        |

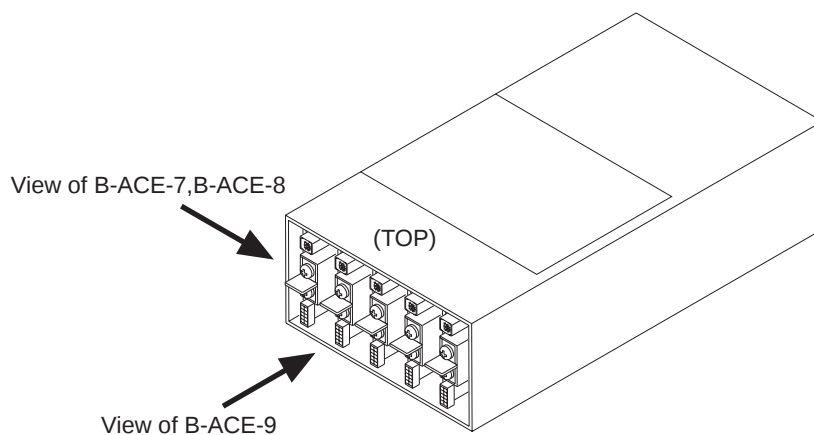
★These attachments cannot be used for module code S, T, U, Y, W, Z, 9, Q, and V.

| B-ACE-7                                                                                                      | B-ACE-8                                                                                                     |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <p>Size</p> <p>Installation (TOP)</p> <p>★ Material : Copper<br/>★ Thickness : 0.8<br/>★ Dimension in mm</p> | <p>Size</p> <p>Installation (TOP)</p> <p>★ Material : Brass<br/>★ Thickness : 1.0<br/>★ Dimension in mm</p> |

★ B-ACE-7: Recommended faston terminal #250.  
Quantity is 1 piece.

★ B-ACE-8: Please be carefull with that B-ACE-8 is not stressd in wiring.  
Quantity is a couple.

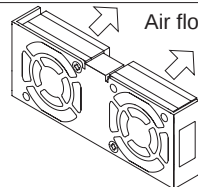
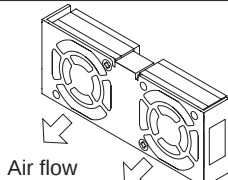
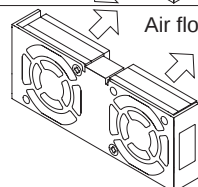
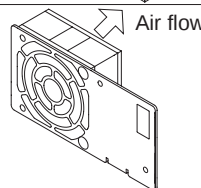
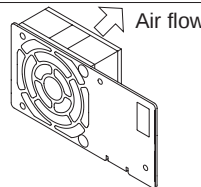
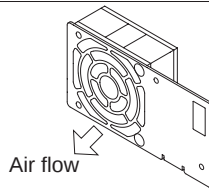
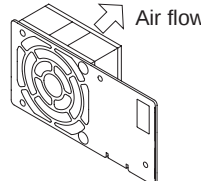
| B-ACE-9                                                                                                     |
|-------------------------------------------------------------------------------------------------------------|
| <p>Size</p> <p>Installation (TOP)</p> <p>★ Material : Brass<br/>★ Thickness : 1.0<br/>★ Dimension in mm</p> |



# Fan unit

★ Fan unit is prepared by the option.

# PB Series

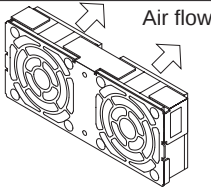
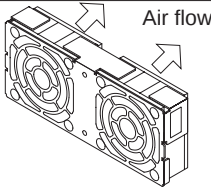
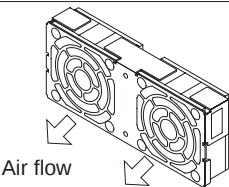
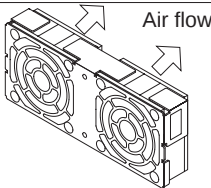
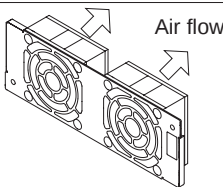
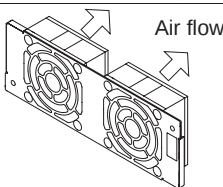
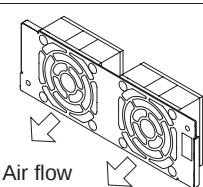
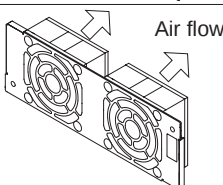
| Fan unit type                          | Matching model                 | External                                                                             | Pin connection                                                                                                                                                                                                                                                                                                  |         |         |   |     |   |           |   |       |
|----------------------------------------|--------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---|-----|---|-----------|---|-------|
| FAN-PB3<br>(Standard)                  | PBA300F<br><Standard>          |    | <div>CONNECTOR = PHR-3<br/>(Mfr : J. S. T)<br/>TERMINAL = SPH-002T-P0.5S<br/>(Mfr : J. S. T)</div> <table><tr><th>Pin No.</th><th>Content</th></tr><tr><td>1</td><td>GND</td></tr><tr><td>2</td><td>FAN ALARM</td></tr><tr><td>3</td><td>POWER</td></tr></table> <div>LENGTH OF HARNESS<br/>= 40 ± 5mm</div>    | Pin No. | Content | 1 | GND | 2 | FAN ALARM | 3 | POWER |
| Pin No.                                | Content                        |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| 1                                      | GND                            |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| 2                                      | FAN ALARM                      |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| 3                                      | POWER                          |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB3-F3<br>(Air flow reverse : -F3) | PBA300F<br><Modification : F3> |    |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB3-F4<br>(Low speed : -F4)        | PBA300F<br><Modification : F4> |    |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB6<br>(Standard)                  | PBA600F<br><Standard>          |   | <div>CONNECTOR = XAP-03V-1<br/>(Mfr : J. S. T)<br/>TERMINAL = SXA-001T-P0.6<br/>(Mfr : J. S. T)</div> <table><tr><th>Pin No.</th><th>Content</th></tr><tr><td>1</td><td>GND</td></tr><tr><td>2</td><td>FAN ALARM</td></tr><tr><td>3</td><td>POWER</td></tr></table> <div>LENGTH OF HARNESS<br/>= 55 ± 7mm</div> | Pin No. | Content | 1 | GND | 2 | FAN ALARM | 3 | POWER |
| Pin No.                                | Content                        |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| 1                                      | GND                            |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| 2                                      | FAN ALARM                      |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| 3                                      | POWER                          |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB6-F1<br>(Long life : -F1)        | PBA600F<br><Modification : F1> |  |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB6-F3<br>(Air flow reverse : -F3) | PBA600F<br><Modification : F3> |  |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB6-F4<br>(Low speed : -F4)        | PBA600F<br><Modification : F4> |  |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |

- ★ 1 Handle with care and don't add the impact such as falls or throwing to the unit.
- ★ 2 Exchange the unit after intercepting the input power.
- ★ 3 When the unit is exchanged, make sure there are not loosening of the connector and shutting the harness.

# Fan unit

# PB Series

★Fan unit is prepared by the option.

| Fan unit type                           | Matching model                              | External                                                                             | Pin connection                                                                                                                                                                                                                                                                                                  |         |         |   |     |   |           |   |       |
|-----------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---|-----|---|-----------|---|-------|
| FAN-PB10<br>(Standard)                  | PBA1000F<br><Standard>                      |    | <div>CONNECTOR = XAP-03V-1<br/>(Mfr : J. S. T)<br/>TERMINAL = SXA-001T-P0.6<br/>(Mfr : J. S. T)</div> <table><tr><th>Pin No.</th><th>Content</th></tr><tr><td>1</td><td>GND</td></tr><tr><td>2</td><td>FAN ALARM</td></tr><tr><td>3</td><td>POWER</td></tr></table> <div>LENGTH OF HARNESS<br/>= 55 ± 7mm</div> | Pin No. | Content | 1 | GND | 2 | FAN ALARM | 3 | POWER |
| Pin No.                                 | Content                                     |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| 1                                       | GND                                         |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| 2                                       | FAN ALARM                                   |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| 3                                       | POWER                                       |                                                                                      |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB10-F1<br>(Long life : -F1)        | PBA1000F<br><Modification : F1>             |    |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB10-F3<br>(Air flow reverse : -F3) | PBA1000F<br><Modification : F3>             |     |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB10-F4<br>(Low speed : -F4)        | PBA1000F<br><Modification : F4>             |   |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB15<br>(Standard)                  | PBA1500F<br>PBA1500T<br><Standard>          |  |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB15-F1<br>(Long life : -F1)        | PBA1500F<br>PBA1500T<br><Modification : F1> |  |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB15-F3<br>(Air flow reverse : -F3) | PBA1500F<br>PBA1500T<br><Modification : F3> |   |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |
| FAN-PB15-F4<br>(Low speed : -F4)        | PBA1500F<br>PBA1500T<br><Modification : F4> |  |                                                                                                                                                                                                                                                                                                                 |         |         |   |     |   |           |   |       |

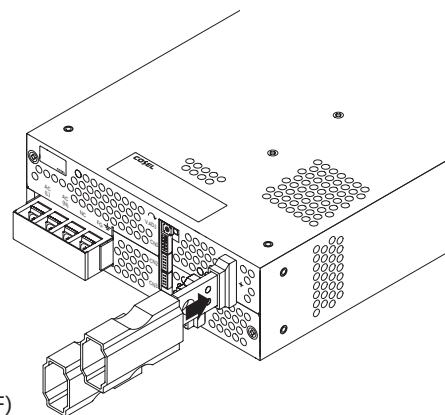
Option

- ★ 1 Handle with care and don't add the impact such as falls or throwing to the unit.
- ★ 2 Exchange the unit after intercepting the input power.
- ★ 3 When the unit is exchanged, make sure there are not loosening of the connector and shutting the harness.

# ■ Insulated tube for PBA1000F, PBA1500F & PBA1500T

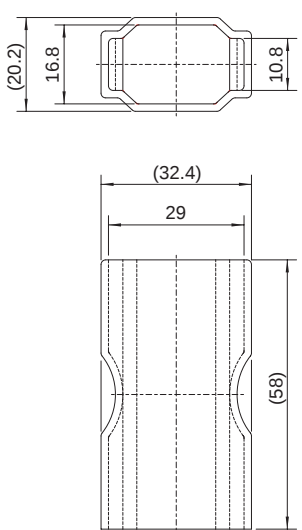
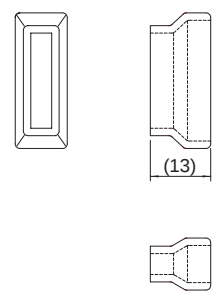
This is a tube used to insulate an output terminal.

| Plate model | Applicable to model              |
|-------------|----------------------------------|
| T-PBA1500-1 | PBA1000F<br>PBA1500F<br>PBA1500T |
| T-PBA1500-2 | PBA1000F<br>PBA1500F<br>PBA1500T |



Example(PBA1500F)

(Unit : mm) (Tolerance : ±1)

| T-PBA1500-1                                                                                                                                                                                               | T-PBA1500-2                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>★ This is used when insulating the tip portion of an output terminal.</p>  <p>★ Material : Silicone rubber Black</p> | <p>★ This is used when insulating the root portion of an output terminal.</p>  <p>★ Material : Silicone rubber Black</p> |

★ If this product is attached, a wiring portion can't visible.  
Be careful not to forget to attach the screw or the bolt for electric wire connection.