

## PQ50WT Series

# Waterproof Power Supply/Signal Hybrid Connectors for Industrial Equipment



Robust



Positive-Lock



Waterproof



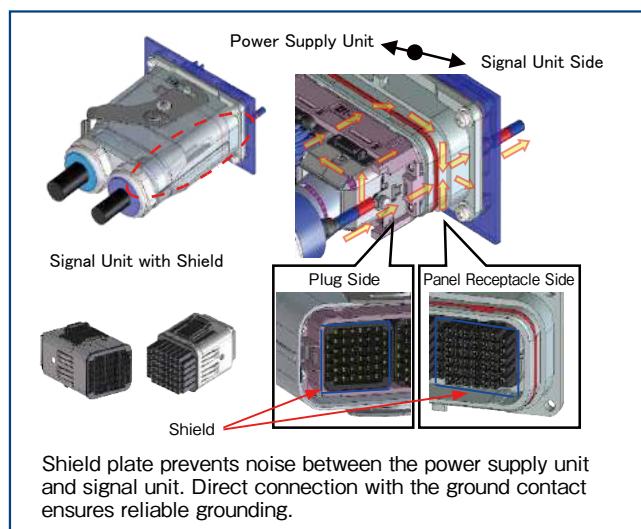
## Overview

The PQ Series of power/signal connectors for industrial equipment includes a wide product line-up. This catalog introduces the PQ50WT Series. The compatible contacts and crimping equipment of the PQ50/PQ50S/PQ50W and PQ50WA Series are features in the corresponding Series catalogs.

## Features

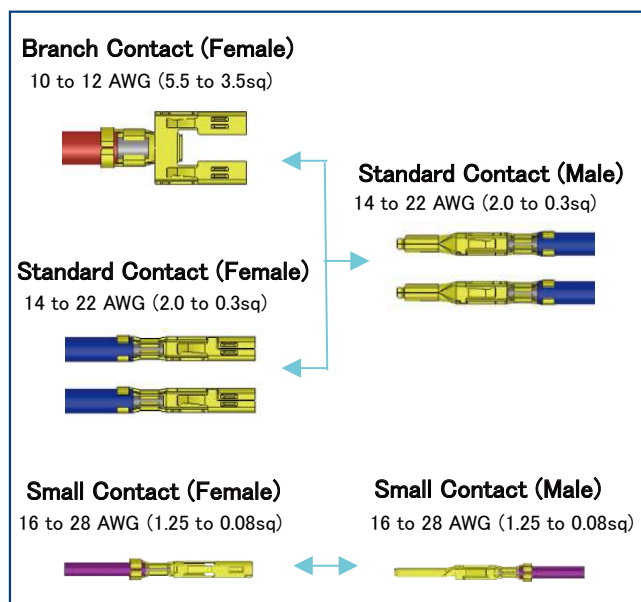
### 1. Combining Power and Signal Lines in a Single Connector

The newly developed signal unit with shield for noise reduction enables the signal and power connection to be combined in one connector. The double cable entry cover case can be used with existing power and signal cables. The single cable entry cover case is compatible with power/signal hybrid cables.



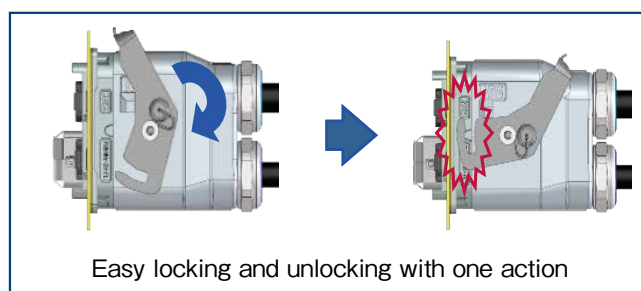
### 2. Original Branch Contact Design, Supports a Wide Range of Cable Sizes

Hirose's original branch contact design enables direct separation without complicated branch wiring. This enables reduced wiring and space-saving inside devices. PQ50WT supports a wide range of automatic crimping compatible cables with sizes 10 to 28 AWG (5.5 to 0.08sq).



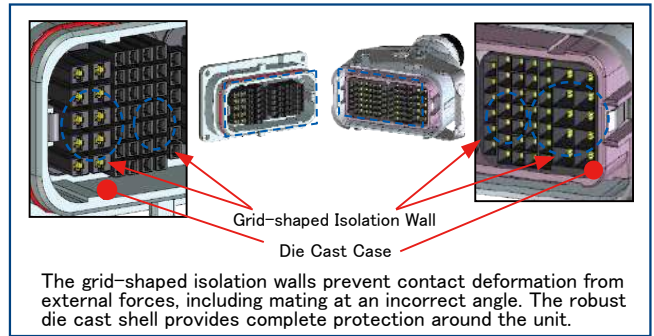
### 3. Easily Attached and Detached One Action Lever Lock

The lever lock design withstands pulling while allowing light operation in a single action, for easy attachment and detachment.



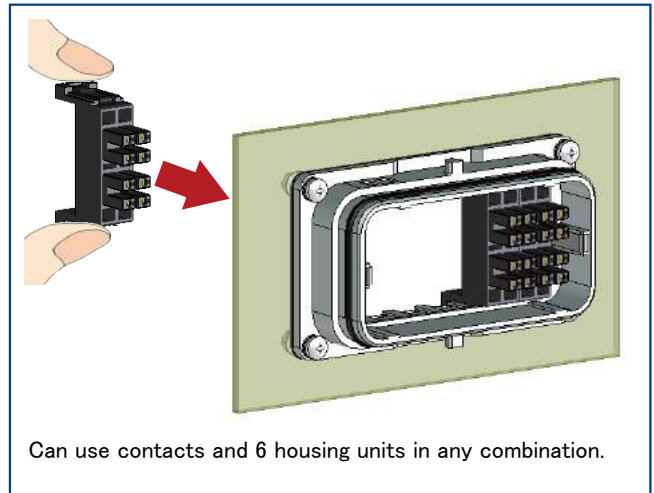
## 4. Independent Isolation Walls Protect Each Contact

Grid-shaped isolation walls for each contact prevent contact deformation due to external forces, including mating at an incorrect angle.



## 5. Rear Insertion Unit

You can select a variety of unit combinations based on the number of positions and current capacity. The rear insertion method allows attachment and detachment of the housing units even after panel mounting.



## 6. Waterproof (IP67) and Safety Standard (TÜV, UL, C-UL) Compliant

IP67 waterproof performance when mated.  
TÜV, UL, and C-UL safety standard certified.

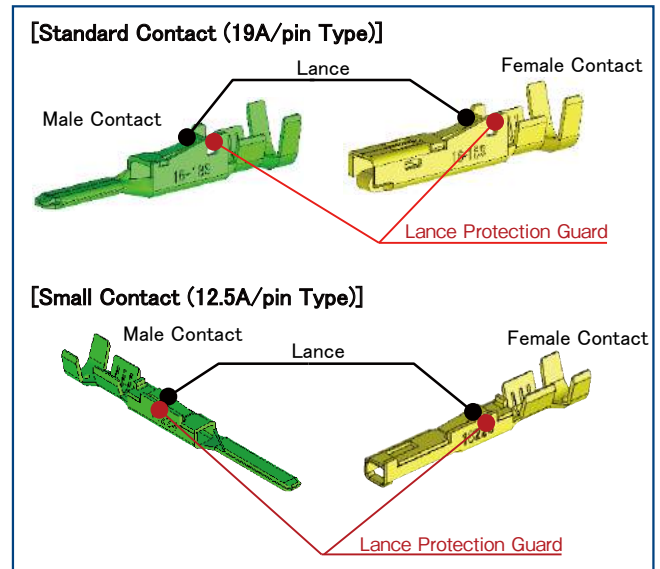
## [Crimp Contact]

### 1. Contact Variations for Different Applications

Three contact sizes are available for use based on the application : branch, standard, and small.

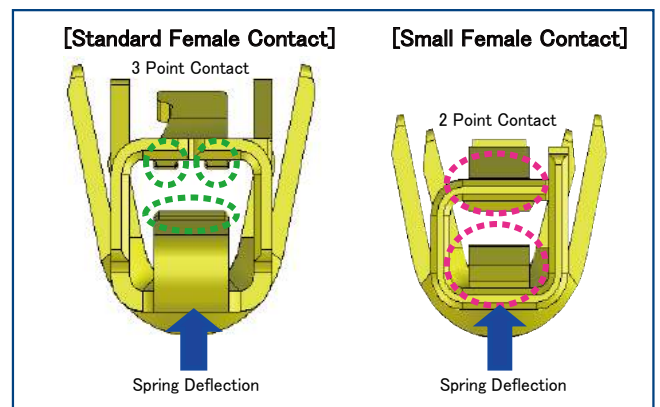
### 2. Lance Protection Design

The wall on the side of the contact prevents lance deformation and entanglement between contacts.



### 3. Highly Reliable Contact Design

Multi-point female contact with spring design provides high contact reliability.



### 4. Small, Highly Conductive Contacts

Use of a highly conductive material for the contacts reduces contact size while maintaining high current capacity for compact wiring.

## 5. Compatible with Both Automatic Crimping Machines and Hand Tools

Supports both hand tools and continuous crimping with the applicator. When the automatic crimping machine (applicator) is used, crimping is possible in only 3 seconds/pin, compared to 15 seconds/pin for the hand tool.

(Example) Crimping a total of 160 positions for the plug and receptacle x (15 seconds minus 3 seconds)  
= 1920 seconds ⇒ 32 minutes reduction in man-hours

## 6. Can Use Contacts Between Multiple Series

The contacts for PQ50, PQ50S, PQ50W and PQ50WA are inter-compatible. The crimping equipment and parts can also be used interchangeably.

Applications

For power and signal in industrial robotics including controllers and manipulators. For power and signal in manufacturing equipment, etc.

Product Specifications

|               |                                                                                                                                                                                                                  |                                |              |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------|
| Rated Current | Branched Contact : 30 A/pin . . . When connected to 10 AWG (Note 1)<br>Standard Contact : 19 A/pin . . . When connected to 14 AWG (Note 1)<br>Small Contact : 12.5 A/pin . . . When connected to 16 AWG (Note 1) | Operating Temperature (Note 2) | -55 to +105℃ |
| Rated Voltage | 600V AC/DC<br>300V AC/DC (UL, C-UL)                                                                                                                                                                              | Storage Temperature            | -55 to +85℃  |

Note 1 : Depends on cable current capacity.  
Note 2 : Includes temperature rise due to current flow.

| Item                  | Standard                                                                                                                                                    | Condition                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Contact Resistance    | Between Contact : 5 mΩ Max. (Note 1)                                                                                                                        | Measured at 100mA                                                                                                 |
| Insulation Resistance | 5000MΩ Min.                                                                                                                                                 | Measured at 500V DC                                                                                               |
| Withstanding Voltage  | No insulation breakdown                                                                                                                                     | 3310V AC for 1 min.                                                                                               |
| Mating Durability     | Contact Resistance Change Amount :<br>20mΩ Max. (Note 1)<br>No broken, cracked or loosened parts.                                                           | 100 times                                                                                                         |
| Vibration Resistance  | No electrical discontinuity of 10 μs or more.<br>No broken, cracked or loosened parts.                                                                      | Frequency 10 to 55Hz, Single Amplitude 0.75mm,<br>3 directions, 2 hours each                                      |
| Shock Resistance      | No electrical discontinuity of 10 μs or more.<br>No broken, cracked or loosened parts.                                                                      | Acceleration: 490m/s <sup>2</sup> , Duration : 11ms,<br>Sine Half-wave : 3 times each in 6 axial directions       |
| Temperature Cycle     | Contact Resistance Change Amount :<br>20mΩ Max. (Note 1)<br>No broken, cracked or loosened parts.                                                           | Temperature : -55 → +15 to +35 → +105 → +15 to +35℃<br>Time : 30 → 2 to 3 → 30 → 2 to 3 minutes<br>for 5 cycles   |
| Humidity Resistance   | Change of contact resistance :<br>20mΩ Max. (Note 1)<br>Insulation resistance: minimum of 1,000MΩ (after drying).<br>No breakage, cracks or loosened parts. | Leave in a temperature of 60 ± 2℃ and humidity of 90 to 95% for 96 hours (Left in mated condition).               |
| Mixed Gas             | No significant corrosion or damage that impairs functioning.                                                                                                | SO <sub>2</sub> 10ppm, H <sub>2</sub> S 3ppm, leave in 70 to 80% humidity for 24 hours (Left in mated condition). |

Note 1 : Excludes conductor resistor on cable.  
Note 2 : JIS C 5402 (IEC60512) is applicable for test methods not described in the test specifications.  
Note 3 : The above standards are representation for this Series. For individual product values refer to the Delivery Specifications.

## Material / Finish

| Item                              | Parts                 | Material             | Color / Finish                                               | Remarks |
|-----------------------------------|-----------------------|----------------------|--------------------------------------------------------------|---------|
| Plug                              | Cover Case            | Aluminum Die Casting | —                                                            | —       |
|                                   | Lock Lever            | Stainless Steel      | —                                                            | —       |
|                                   | Plug Case             | Aluminum Die Casting | —                                                            | —       |
|                                   | Ground Contact        | Stainless Steel      | Nickel Plated                                                | —       |
|                                   | M3 Attachment Screw   | Steel                | Nickel Plated                                                | —       |
| In-line Cover Case                |                       | Aluminum Die Casting | —                                                            | —       |
| Gasket Clamp                      |                       | NBR                  | Black                                                        | —       |
| End Bell Cap                      |                       | Aluminum Die Casting | —                                                            | —       |
| Receptacle (Note)                 | Panel Case            | Aluminum Die Casting | —                                                            | —       |
|                                   | Ground Contact        | Stainless Steel      | Nickel Plated                                                | —       |
|                                   | O-ring for Mating     | NBR                  | Black                                                        | —       |
|                                   | M3 Tapping Screw      | Steel                | Nickel Plated                                                | —       |
|                                   | Sheet Packing         | NBR                  | Black                                                        | —       |
| In-line Panel Case                |                       | PBT Resin            | Black                                                        | UL94V-0 |
| Crimp Housing                     |                       | PBT Resin            | Black                                                        | UL94V-0 |
| Crimp Housing with Shield         | Housing               | PBT Resin            | Black                                                        | UL94V-0 |
|                                   | Shell                 | Stainless Steel      | Nickel Plated                                                | —       |
| Branch Conversion Adapter Unit    | Housing               | PBT Resin            | Black                                                        | UL94V-0 |
|                                   | Built-in Male Contact | Copper Alloy         | Gold Plated (Contact Portion)                                | —       |
| Branch Conversion Adapter Housing |                       | PBT Resin            | Black                                                        | UL94V-0 |
| Female / Male Crimp Contact       |                       | Copper Alloy         | Gold Plated (Contact Portion)<br>Tin Plated (Barrel Portion) | —       |

Note : Contact a Hirose sales representative for ozone resistant specification products.

## Product Number Structure

Refer to the chart below when determining the product specifications from the product number.  
Please select from the product numbers listed in this catalog when placing orders.

### ■ Plug / In-line Cover Case

**PQ 50 WT - 6U - PC 1 L**

①      ②      ③      ④      ⑤      ⑥      ⑦

|                            |                       |                        |                                                                  |
|----------------------------|-----------------------|------------------------|------------------------------------------------------------------|
| ① Series Name              | PQ                    | ⑤ Case Type            | Plug Cover Case                                                  |
| ② Termination Style        | Crimping              | ⑥ No. of Cable Outlets | None or 1 : Single Cable Entry<br>2 : Double Cable Entry         |
| ③ Connector Specifications | Large Waterproof Type | ⑦ Shape Type           | None : Straight Type<br>L : Right Angle Type<br>J : In-line Type |
| ④ Case Size                | 6 Unit Combination    |                        |                                                                  |

### ■ Receptacle / In-line Panel Case

**PQ 50 WT - 6U - FL**

①      ②      ③      ④      ⑤

|                            |                       |             |                                                        |
|----------------------------|-----------------------|-------------|--------------------------------------------------------|
| ① Series Name              | PQ                    | ④ Case Size | 6 Unit Combination                                     |
| ② Termination Style        | Crimping              | ⑤ Case Type | FL : Receptacle Panel Case<br>FLJ : In-line Panel Case |
| ③ Connector Specifications | Large Waterproof Type |             |                                                        |

■ Crimp Housing / Branch Conversion Adapter

**PQ 50 WT SX - 54P - UNIT**

123456

|                            |                                           |                                      |                                                                                                                                                                                                                                                  |
|----------------------------|-------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Series Name              | PQ                                        | 5 No. of Pos. and Mating Port Gender | 4SB : 4pos. Female Type (for Branch Contact)<br>8P : 8pos. Male Type<br>8S : 8pos. Female Type<br>12P : 12pos. Male Type<br>12S : 12pos. Female Type<br>54P : 54pos. Male Type<br>54S : 54pos. Female Type<br>8/12P : Built-in Male Contact Type |
| 2 Termination Style        | Crimping                                  | 6 Body                               | UNIT : Rear Insertion Unit<br>CA-UNIT : Branch Conversion Adapter Housing / Unit                                                                                                                                                                 |
| 3 Connector Specifications | Large Waterproof Type                     |                                      |                                                                                                                                                                                                                                                  |
| 4 With or Without Shield   | SX : With Shield<br>None : Without Shield |                                      |                                                                                                                                                                                                                                                  |

■ Crimp Contact

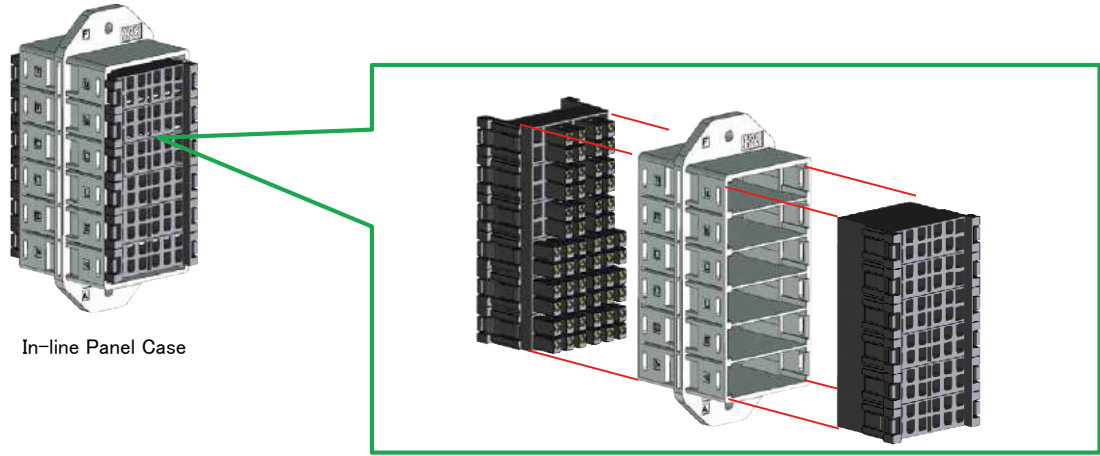
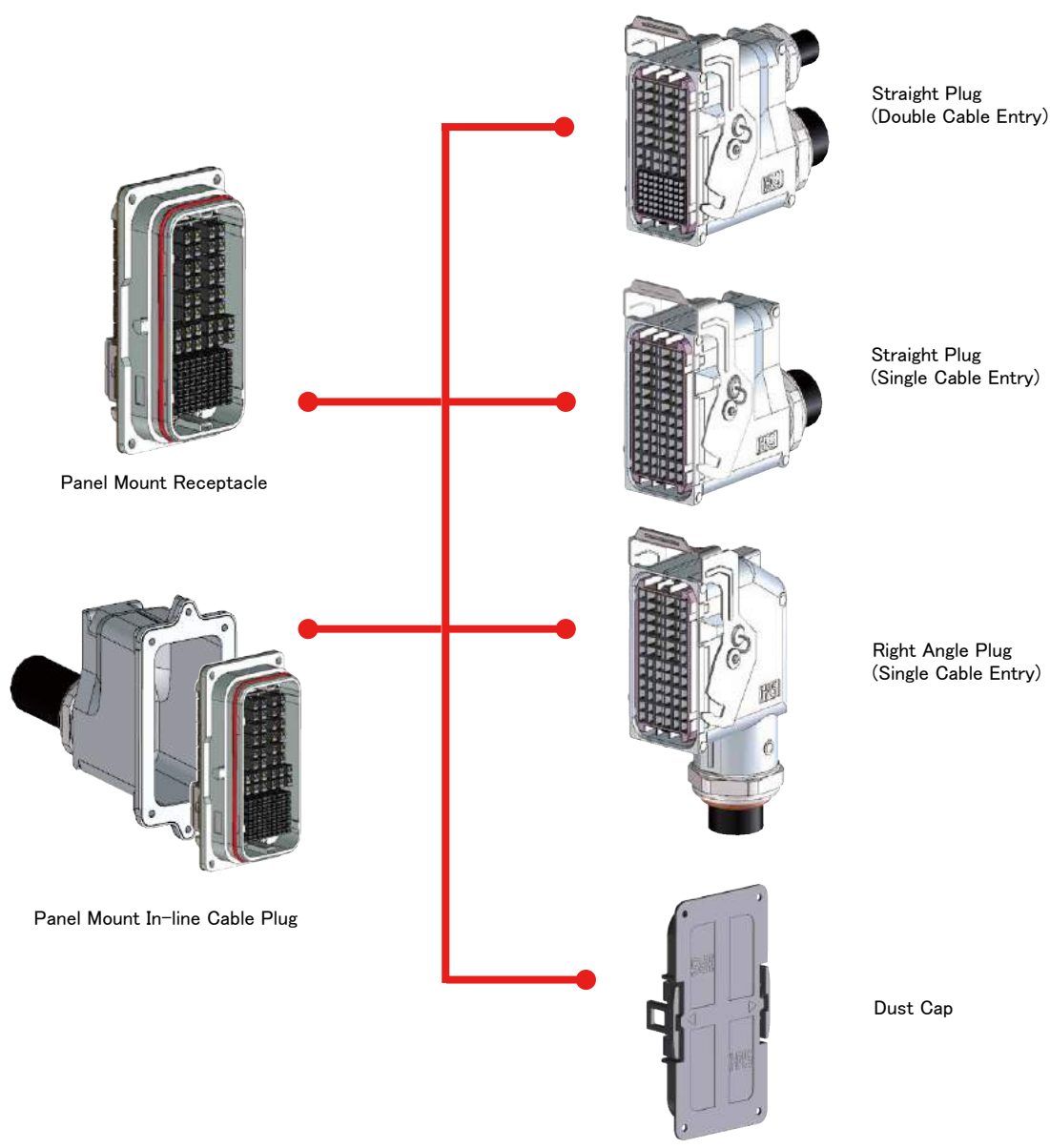
**PQ 50 A - 1822 PC F A**

1234567

|                        |                                                                                                                                                                                           |                        |                                                                                                                                      |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 1 Series Name          | PQ                                                                                                                                                                                        | 4 Applicable Cable     | 1012 : 10 to 12 AWG<br>15 : 14 to 15 AWG<br>1618 : 16 to 18 AWG<br>1822 : 18 to 22 AWG<br>2022 : 20 to 22 AWG<br>2428 : 24 to 28 AWG |
| 2 Termination Style    | Crimping                                                                                                                                                                                  | 5 Contact Gender       | PC : Male Contact<br>SC : Female Contact                                                                                             |
| 3 Contact Size & Usage | B : Standard Size, Branch Contact<br>None : Standard Size, Normal Contact<br>A : Standard Size, Sequence Contact<br>S2 : Small Size, Normal Contact<br>SA2 : Small Size, Sequence Contact | 6 Contact Shape        | F : Reel Contact<br>None : Loose Contact                                                                                             |
|                        |                                                                                                                                                                                           | 7 Contact Plating Type | A : Gold Plated (Contact Area)                                                                                                       |

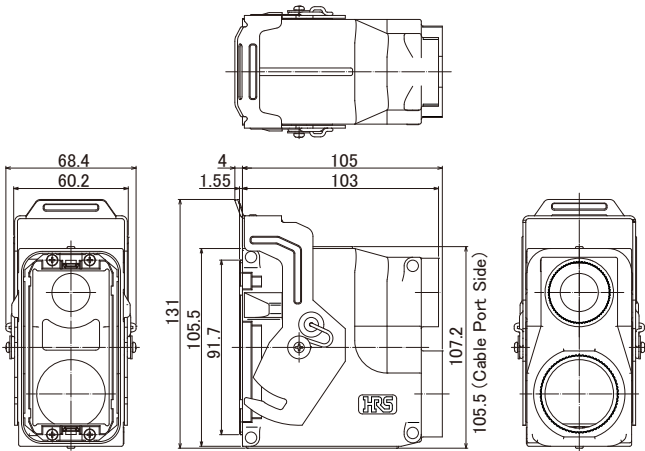
# Functional Diagram

For details, please refer to the separate PQ series product selection guide (ETAD-E3254-00).



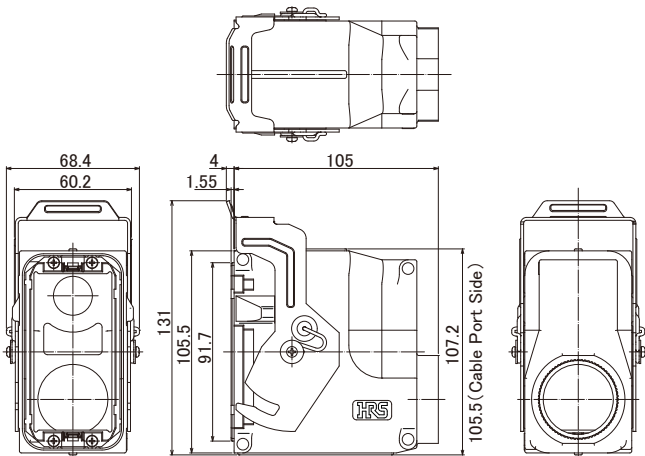
Plug

Straight Cover Case (Double Cable Entry)



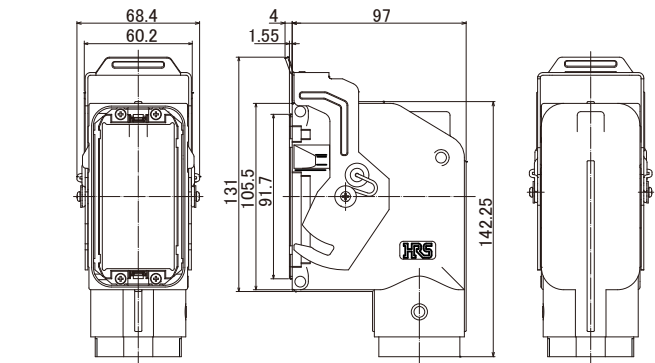
| Part No.      | HRS No.          | Purchase Unit |
|---------------|------------------|---------------|
| PQ50WT-6U-PC2 | CL0236-2060-0-00 | 20pcs per box |

Straight Cover Case (Single Cable Entry)



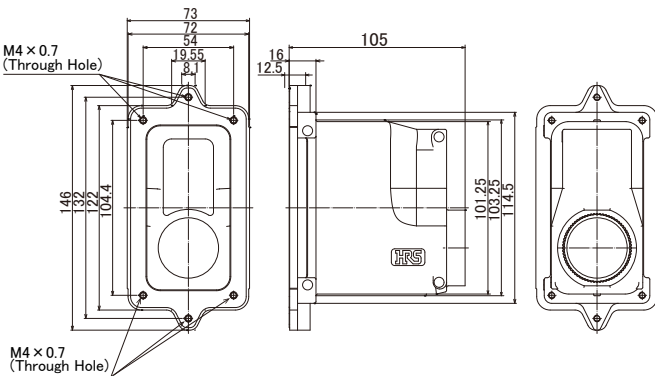
| Part No.      | HRS No.          | Purchase Unit |
|---------------|------------------|---------------|
| PQ50WT-6U-PC1 | CL0236-2061-2-00 | 20pcs per box |

Right Angle Cover Case (Single Cable Entry)



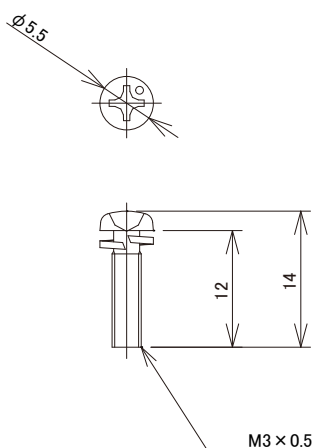
| Part No.       | HRS No.          | Purchase Unit |
|----------------|------------------|---------------|
| PQ50WT-6U-PC1L | CL0236-2074-4-00 | 12pcs per box |

In-line Cover Case



| Part No.      | HRS No.          | Purchase Unit |
|---------------|------------------|---------------|
| PQ50WT-6U-PCJ | CL0236-2080-7-00 | 20pcs per box |

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Note : This is the same item as the M3 screws (4pcs per set) that came with the plug cover case.  
Purchasable for cases of loss or damage.

Technical drawing of the M3000-4000 series connector, showing three views: top, side, and front.

**Top View:**

- Overall dimensions: 64 mm (width) x 54 mm (height).
- Central hole diameter:  $\phi 4.3$  mm.
- Mounting hole diameter:  $M3 \times 0.5$  (Through Hole).

**Side View:**

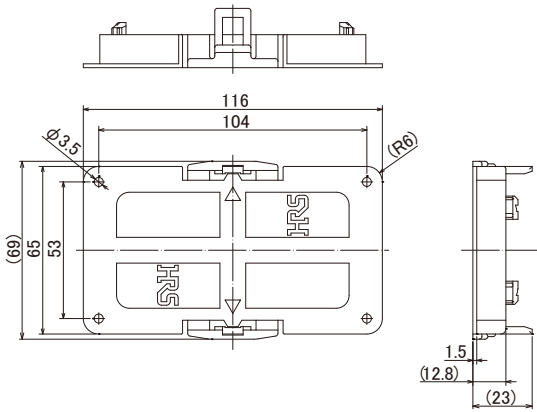
- Overall height: 27 mm.
- Central slot width: 13.7 mm.
- Slot depth: 13.4 mm.

**Front View:**

- Overall dimensions: 48.7 mm (width) x 95.7 mm (height).
- Central slot width: 13.4 mm.

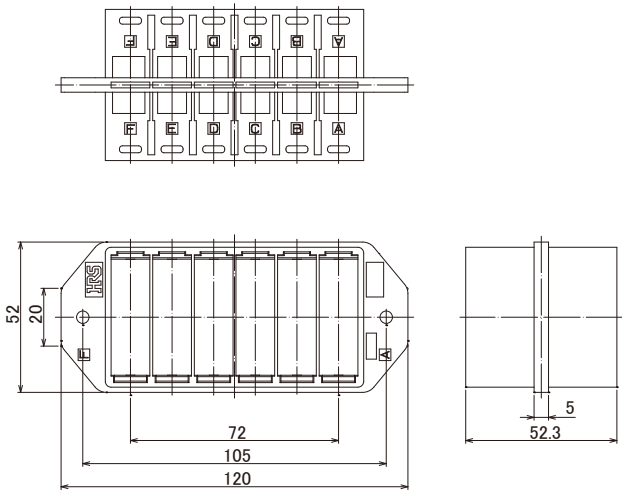
Note : For ozone resistant specifications, contact a Hirose sales representative.

Dust Cap



| Part No.        | HRS No.          | Purchase Unit |
|-----------------|------------------|---------------|
| PQ50WT-6U-FL-DC | CL0236-2076-0-00 | 60pcs per box |

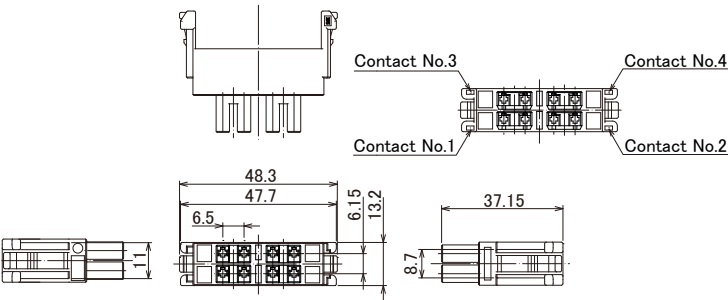
In-line Panel Case



| Part No.      | HRS No.          | Purchase Unit |
|---------------|------------------|---------------|
| PQ50WT-6U-FLJ | CL0236-2077-2-00 | 60pcs per box |

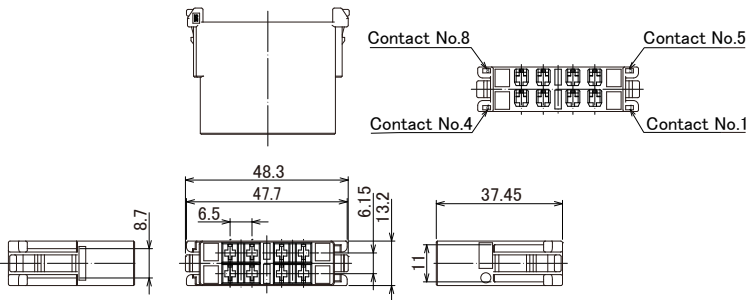
Crimp Housing

4pos. Female Type (for Branch Contacts)



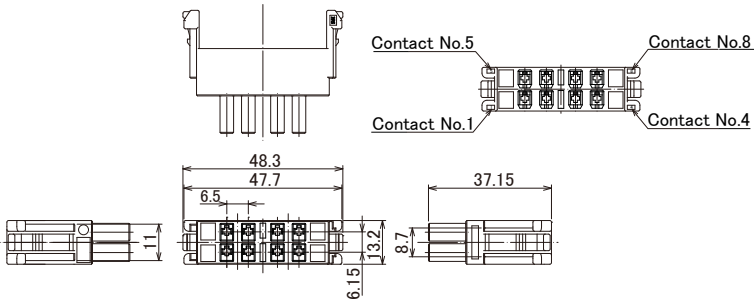
| Part No.        | HRS No.          | Applicable Crimp Contact        | Purchase Unit |
|-----------------|------------------|---------------------------------|---------------|
| PQ50WT-4SB-UNIT | CL0236-2055-0-00 | PQ50B-1012SCFA<br>PQ50B-1012SCA | 20pcs per bag |

8pos. Male Type



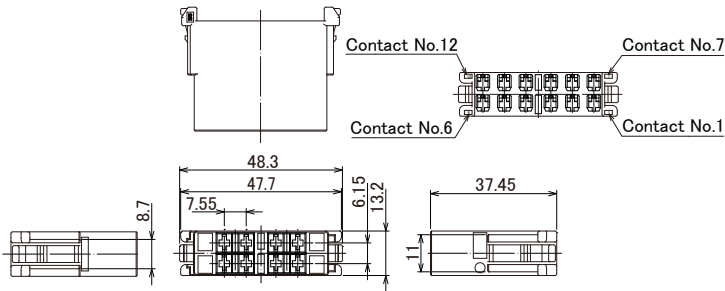
| Part No.       | HRS No.          | Applicable Crimp Contact                                                                          | Purchase Unit |
|----------------|------------------|---------------------------------------------------------------------------------------------------|---------------|
| PQ50WT-8P-UNIT | CL0236-2053-4-00 | PQ50A-15PCFA<br>PQ50A-15PCA<br>PQ50A-1618PCFA<br>PQ50A-1618PCA<br>PQ50A-2022PCFA<br>PQ50A-2022PCA | 20pcs per bag |

8pos. Female Type



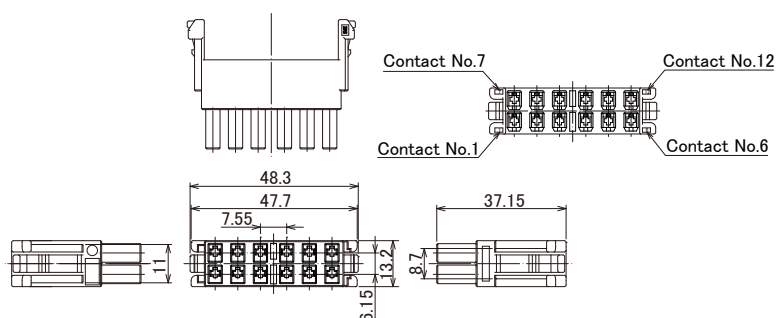
| Part No.       | HRS No.          | Applicable Crimp Contact                                                                    | Purchase Unit |
|----------------|------------------|---------------------------------------------------------------------------------------------|---------------|
| PQ50WT-8S-UNIT | CL0236-2056-2-00 | PQ50-15SCFA<br>PQ50-15SCA<br>PQ50-1618SCFA<br>PQ50-1618SCA<br>PQ50-2022SCFA<br>PQ50-2022SCA | 20pcs per bag |

12pos. Male Type

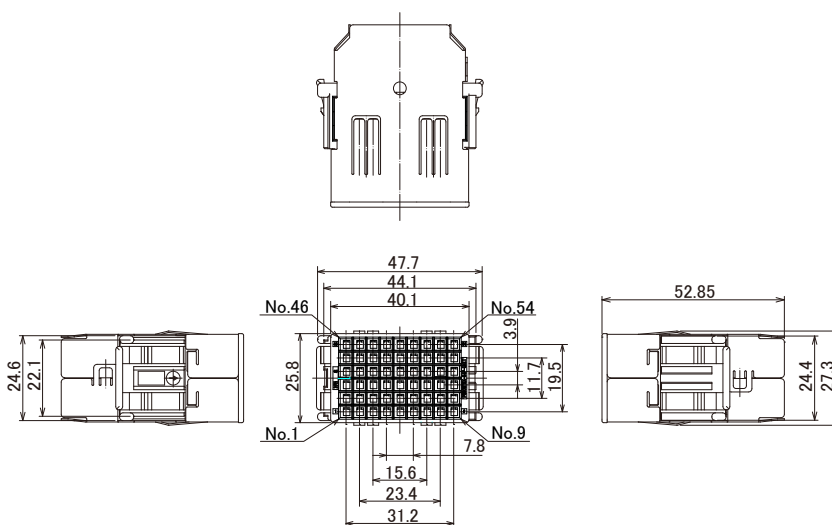


| Part No.        | HRS No.          | Applicable Crimp Contact                                                                          | Purchase Unit |
|-----------------|------------------|---------------------------------------------------------------------------------------------------|---------------|
| PQ50WT-12P-UNIT | CL0236-2054-7-00 | PQ50A-15PCFA<br>PQ50A-15PCA<br>PQ50A-1618PCFA<br>PQ50A-1618PCA<br>PQ50A-2022PCFA<br>PQ50A-2022PCA | 20pcs per bag |

## A black, multi-port network switch or patch panel. It features a row of eight RJ45 ports on the front face and a single SFP (Small Form-factor Pluggable) port on the side. The device has a compact, rectangular design with a slightly raised top edge.

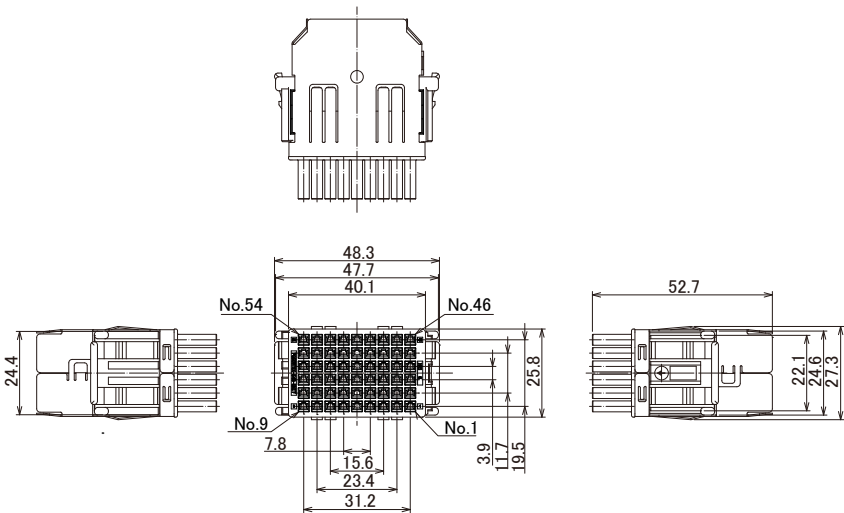


| Part No.        | HRS No.          | Applicable Crimp Contact                                                                    | Purchase Unit |
|-----------------|------------------|---------------------------------------------------------------------------------------------|---------------|
| PQ50WT-12S-UNIT | CL0236-2057-5-00 | PQ50-15SCFA<br>PQ50-15SCA<br>PQ50-1618SCFA<br>PQ50-1618SCA<br>PQ50-2022SCFA<br>PQ50-2022SCA | 20pcs per bag |



| Part No.          | HRS No.          | Category    | Applicable Crimp Contact                                                                       | Purchase Unit |
|-------------------|------------------|-------------|------------------------------------------------------------------------------------------------|---------------|
| PQ50WTSX-54P-UNIT | CL0236-2012-0-00 | With Shield | PQ50SA2-1618PCFA<br>PQ50SA2-1822PCFA<br>PQ50SA2-1822PCA<br>PQ50SA2-2428PCFA<br>PQ50SA2-2428PCA | 20pcs per box |

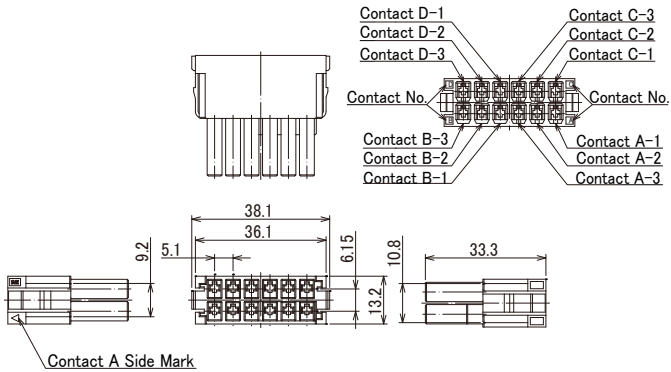
Compact, 54pos. Female Type with Shield



| Part No.          | HRS No.          | Category    | Applicable Crimp Contact                                                                  | Purchase Unit |
|-------------------|------------------|-------------|-------------------------------------------------------------------------------------------|---------------|
| PQ50WTSX-54S-UNIT | CL0236-2042-0-00 | With Shield | PQ50S2-1618SCFA<br>PQ50S2-1822SCFA<br>PQ50S2-1822SCA<br>PQ50S2-2428SCFA<br>PQ50S2-2428SCA | 20pcs per box |

Branch Conversion Adapter Housing / Unit

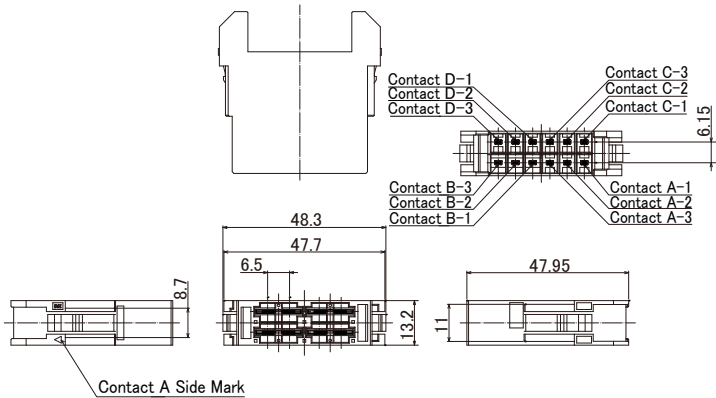
Crimp Housing



| Part No.           | HRS No.          | Applicable Crimp Contact                                                                    | Purchase Unit |
|--------------------|------------------|---------------------------------------------------------------------------------------------|---------------|
| PQ50WT-12S-CA-UNIT | CL0236-2069-4-00 | PQ50-15SCFA<br>PQ50-15SCA<br>PQ50-1618SCFA<br>PQ50-1618SCA<br>PQ50-2022SCFA<br>PQ50-2022SCA | 20pcs per bag |

Note : Be sure to use this product together with PQ50WT-8/12P-CA-UNIT.

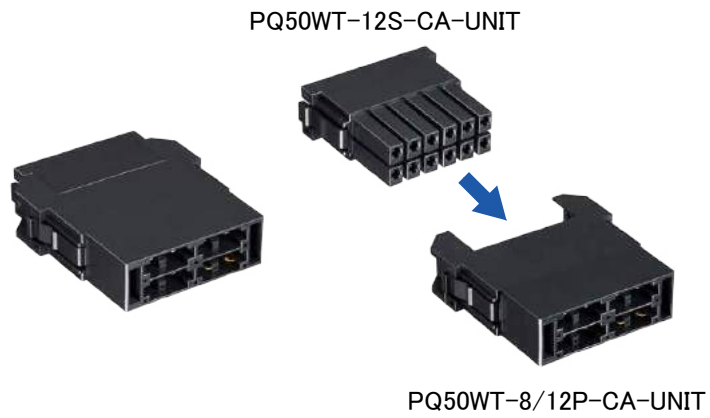
Unit



| Part No.             | HRS No.          | Mating Partner<br>(Female Crimp Housing) | Purchase Unit  |
|----------------------|------------------|------------------------------------------|----------------|
| PQ50WT-8/12P-CA-UNIT | CL0236-2068-1-00 | PQ50WT-4SB-UNIT<br>PQ50WT-8S-UNIT        | 120pcs per box |

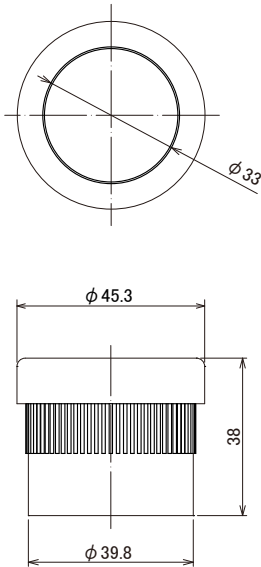
Note 1 : Be sure to use this product together with PQ50WT-12S-CA-UNIT.  
Note 2 : Built-in Male Contact.

## Example of Assembled State



Gasket Clamp

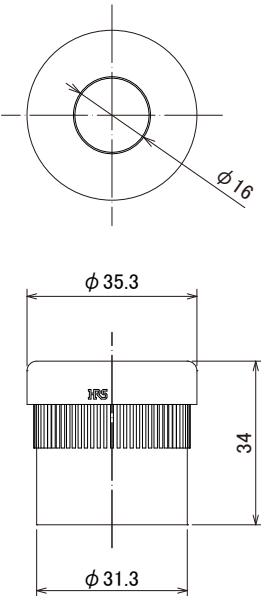
For End Bell Cap PG36



| Part No.          | HRS No.          | Applicable Cable (Note) | Purchase Unit |
|-------------------|------------------|-------------------------|---------------|
| PQWT-CM(33.0)(51) | CL0236-2065-3-51 | φ 31.3 to 33.3          | 20pcs per bag |
| PQWT-CM(35.5)     | CL0236-2102-0-00 | φ 34.0 to 36.0          |               |

Note : The applicable cable diameter is for reference. It may vary depending on material and cable configuration. Please check before use.

For End Bell Cap PG29

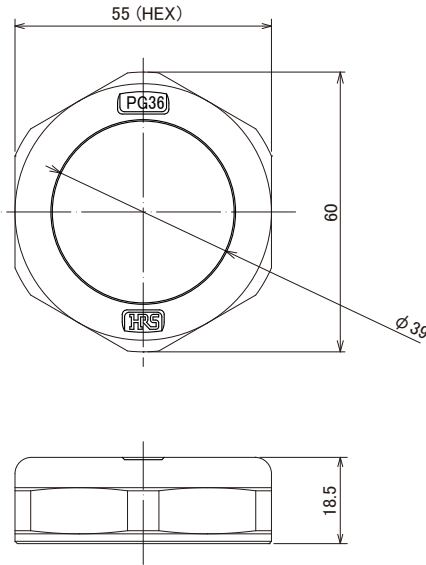


| Part No.       | HRS No.          | Applicable Cable (Note) | Purchase Unit |
|----------------|------------------|-------------------------|---------------|
| PQWT-CMA(15.0) | CL0236-2099-0-00 | φ 13.5 to 15.5          | 20pcs per bag |
| PQWT-CMA(17.5) | CL0236-2100-0-00 | φ 16.0 to 18.0          |               |
| PQWT-CMA(22.5) | CL0236-2101-0-00 | φ 21.0 to 23.0          |               |
| PQWT-CMA(28.5) | CL0236-2103-0-00 | φ 27.0 to 29.0          |               |

Note : The applicable cable diameter is for reference. It may vary depending on material and cable configuration. Please check before use.

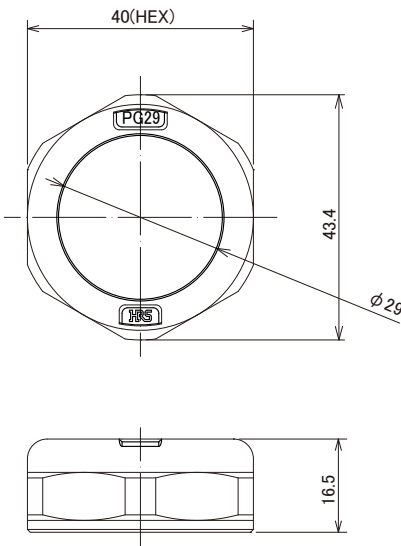
End Bell Cap

For PG36



| Part No.       | HRS No.          | Purchase Unit |
|----------------|------------------|---------------|
| PQWT-EBC(PG36) | CL0236-2067-9-00 | 60pcs per box |

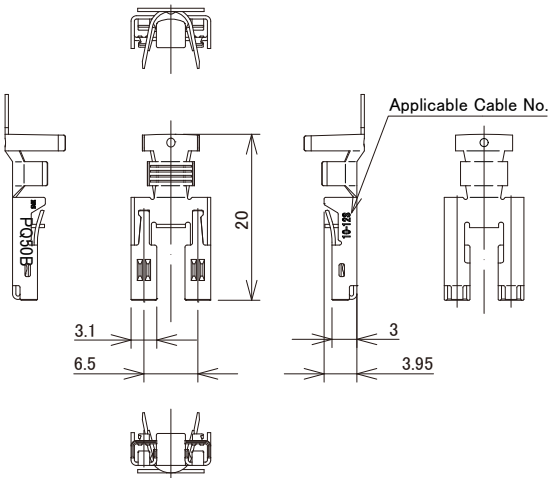
For PG29



| Part No.       | HRS No.          | Purchase Unit |
|----------------|------------------|---------------|
| PQWT-EBC(PG29) | CL0236-2066-6-00 | 60pcs per box |

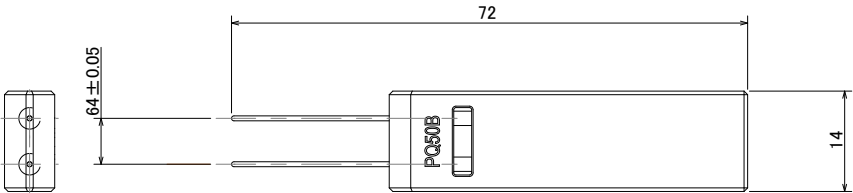
Crimp Contact / Contact Extraction Tool

Female Branch Contact



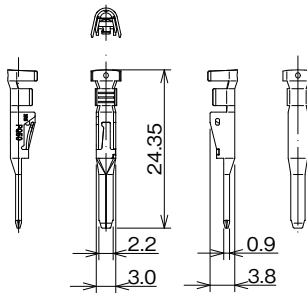
| Part No.       | HRS No.          | Applicable Cable                                         | Purchase Unit     |
|----------------|------------------|----------------------------------------------------------|-------------------|
| PQ50B-1012SCFA | CL0236-2070-3-00 | 10 to 12 AWG Insulation Outer Diameter $\phi$ 4.5mm Max. | 1,300pcs per reel |
| PQ50B-1012SCA  | CL0236-2071-6-00 |                                                          | 100pcs per bag    |

Extraction Tool for Branch Contact



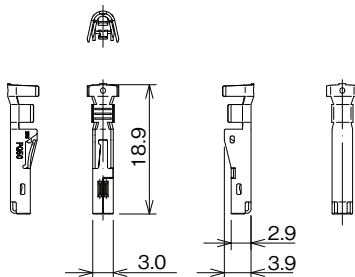
| Part No.    | HRS No.          | Purchase Unit |
|-------------|------------------|---------------|
| PQ50B/RE-MD | CL0902-2200-7-00 | 1pc per box   |

Standard Male Contact (19A/pin Type)



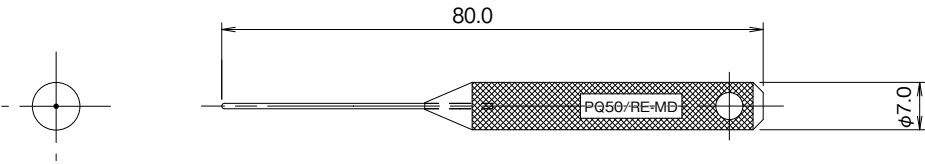
| Part No.       | HRS No.          | Applicable Cable                                         | Purchase Unit     |
|----------------|------------------|----------------------------------------------------------|-------------------|
| PQ50A-15PCFA   | CL0236-2073-1-00 | 14 to 15 AWG Insulation Outer Diameter $\phi$ 3.8mm Max. | 3,500pcs per reel |
| PQ50A-15PCA    | CL0236-2075-7-00 |                                                          | 100pcs per bag    |
| PQ50A-1618PCFA | CL0236-2007-7-00 | 16 to 18 AWG Insulation Outer Diameter $\phi$ 3.3mm Max. | 3,500pcs per reel |
| PQ50A-1618PCA  | CL0236-2040-2-00 |                                                          | 100pcs per bag    |
| PQ50A-2022PCFA | CL0236-2032-4-00 | 20 to 22 AWG Insulation Outer Diameter $\phi$ 2.7mm Max. | 3,500pcs per reel |
| PQ50A-2022PCA  | CL0236-2041-5-00 |                                                          | 100pcs per bag    |

Standard Female Contact (19A/pin Type)



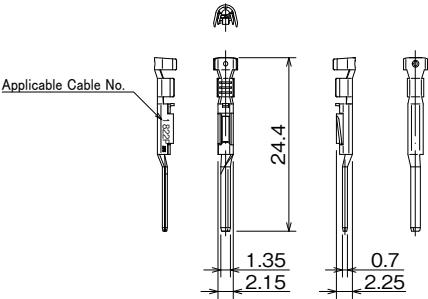
| Part No.      | HRS No.          | Applicable Cable                                         | Purchase Unit     |
|---------------|------------------|----------------------------------------------------------|-------------------|
| PQ50-15SCFA   | CL0236-2017-0-00 | 14 to 15 AWG Insulation Outer Diameter $\phi$ 3.8mm Max. | 3,500pcs per reel |
| PQ50-15SCA    | CL0236-2043-0-00 |                                                          | 100pcs per bag    |
| PQ50-1618SCFA | CL0236-2008-0-00 | 16 to 18 AWG Insulation Outer Diameter $\phi$ 3.3mm Max. | 3,500pcs per reel |
| PQ50-1618SCA  | CL0236-2044-3-00 |                                                          | 100pcs per bag    |
| PQ50-2022SCFA | CL0236-2010-1-00 | 20 to 22 AWG Insulation Outer Diameter $\phi$ 2.7mm Max. | 3,500pcs per reel |
| PQ50-2022SCA  | CL0236-2045-6-00 |                                                          | 100pcs per bag    |

Extraction Tool for Standard Contact



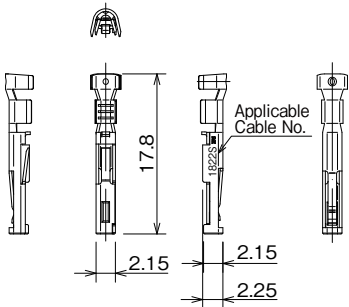
| Part No.   | HRS No.          | Purchase Unit |
|------------|------------------|---------------|
| PQ50/RE-MD | CL0902-2201-0-00 | 1pc per box   |

Small Male Contact (12.5A/pin Type)



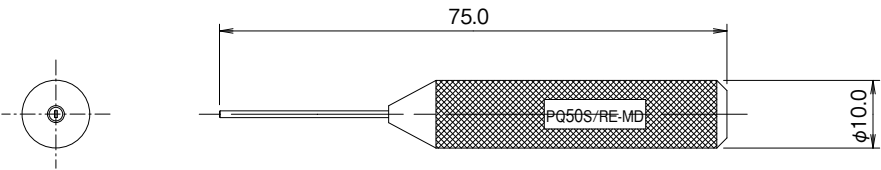
| Part No.         | HRS No.          | Applicable Cable                                          | Purchase Unit     |
|------------------|------------------|-----------------------------------------------------------|-------------------|
| PQ50SA2-1618PCFA | CL0236-0033-0-00 | 16 to 18 AWG Insulation Outer Diameter $\phi$ 3.3mm Max.  | 6,000pcs per reel |
| PQ50SA2-1822PCFA | CL0236-0034-0-00 | 18 to 22 AWG Insulation Outer Diameter $\phi$ 2.25mm Max. | 6,000pcs per reel |
| PQ50SA2-1822PCA  | CL0236-0048-0-00 |                                                           | 100pcs per bag    |
| PQ50SA2-2428PCFA | CL0236-0037-0-00 | 24 to 28 AWG Insulation Outer Diameter $\phi$ 1.8mm Max.  | 6,000pcs per reel |
| PQ50SA2-2428PCA  | CL0236-0049-0-00 |                                                           | 100pcs per bag    |

Small Female Contact (12.5A/pin Type)



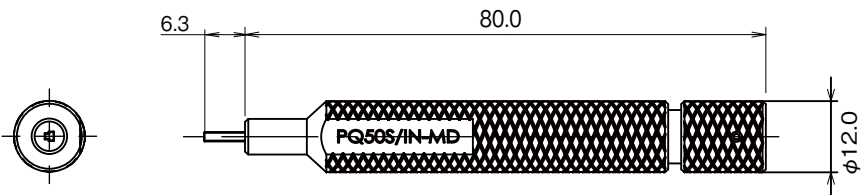
| Part No.        | HRS No.          | Applicable Cable                                          | Purchase Unit     |
|-----------------|------------------|-----------------------------------------------------------|-------------------|
| PQ50S2-1618SCFA | CL0236-0042-0-00 | 16 to 18 AWG Insulation Outer Diameter $\phi$ 3.3mm Max.  | 6,000pcs per reel |
| PQ50S2-1822SCFA | CL0236-0036-0-00 | 18 to 22 AWG Insulation Outer Diameter $\phi$ 2.25mm Max. | 6,000pcs per reel |
| PQ50S2-1822SCA  | CL0236-0050-0-00 |                                                           | 100pcs per bag    |
| PQ50S2-2428SCFA | CL0236-0039-0-00 | 24 to 28 AWG Insulation Outer Diameter $\phi$ 1.8mm Max.  | 6,000pcs per reel |
| PQ50S2-2428SCA  | CL0236-0051-0-00 |                                                           | 100pcs per bag    |

Extraction Tool for Small Contact



| Part No.    | HRS No.          | Purchase Unit |
|-------------|------------------|---------------|
| PQ50S/RE-MD | CL0902-2202-2-00 | 1pc per box   |

Pin Push Inspection Tool



| Part No.    | HRS No.          | Purchase Unit |
|-------------|------------------|---------------|
| PQ50S/IN-MD | CL0902-2538-0-00 | 1pc per box   |

Note : Used to confirm whether the contact is securely mated to the housing when connecting.

## Contact Crimping Tool

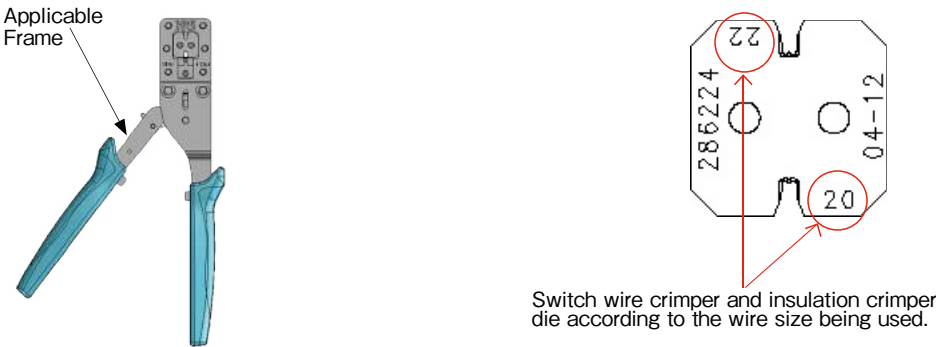
For details, refer to the crimping tool list in the PQ series product selection guide (ETAD-E3254-00).

## Automatic Crimping Machine/Applicator for Automatic Crimping Machine

Please contact a Hirose sales representative.

## Manual Crimping Tool

Please purchase a compatible frame and tooth profile unit according to the cable you are using.



| Part No. | HRS No.          | Remarks                                        |
|----------|------------------|------------------------------------------------|
| HT702    | CL0250-1001-1-00 | Frame only, tooth profile unit sold separately |

## About Guidelines

- Refer to the PQ series design and handling manual (ETAD-E3230-00) for product handling and precautions for equipment design.
- Please refer to the PQ series product selection guide (ETAD-E3254-00) if you are having trouble selecting a product.

## While Taking into Consideration

Specifications mentioned in this catalog are reference values.  
When considering to order or use this product, please confirm the Drawing and Product Specifications sheets.  
Use an appropriate cable when using the connector in combination with cables.  
If considering usage of a non-specified cable, please contact your sales representative.  
If assembly process is done by jigs & tools which are not identified by Hirose, assurance will not be given.  
If considering usage for below mentioned applications, please contact your sales representative.  
In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/ defense etc. Hirose must review before assurance of reliability can be given.