

PQ50/PQ50S/PQ50W Series

Power Supply/Signal Connectors for Industrial Equipment



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Overview

The PQ Series is an interface connector designed to handle high power/signal connections in industrial equipment. Available in a waterproof or non-waterproof type, they are capable of handling up to 12.5A/pin (PQ50S/PQ50W) or 19A/pin (PQ50).



Variations

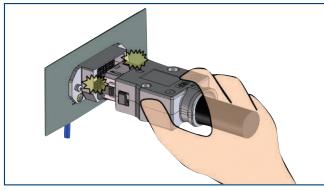
Features

[Non-Waterproof Type] PQ50/PQ50S Series

Side locking spring design delivers a clear tactile click.

The left and right buttons disengage the mated lock. (Side locking system)

The easy mating operation delivers a clear tactile click.



Side locking design emits a tactile click and produces a secure lock

2. Strengthened Cable Clamps

Cable clamp strength is 98N or more. (Actual value is 400N or more)

The design prevents the mated connector and clamp from detaching against excessive forces.

3. Different cover options. A robust, enhanced, shielded die-cast shell is available on the PQ50-20pos. /PQ50S-36pos. or a engineered, light weight plated plastic resin shell for the PQ50S-48pos.

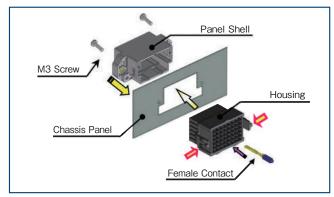
The die cast shell delivers an enhanced EMI shield on the PQ50-20pos./PQ50S-36pos. and the plated plastic resin of the PQ50S-48pos. cover case and panel shell ensure ESD and EMI performance.

4. Coding key system provides flexibility with multiple options.

The coding key system prevents incorrect mating and has multiple variations available.

5. Rear mounted panel shell is available.

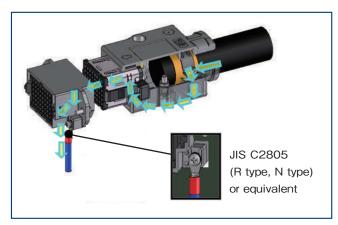
After attaching the panel shell to the chassis, it is possible to install or remove the crimp housing.



It is possible to insert the terminated housing from the rear.

6. Reliable ground connection design.

The crimp contacts can be mounted directly onto the panel shell with screws which enhances the grounding connections.



Easy and Reliable Ground Connection

7. Supports NFPA79 compliant cables (with 600V capability).

(PQ50 Series)

Due to restrictions on the AWM cables by NFPA79 revision, the requirements of listed cables has increased for wires used in industrial machines in the U.S.A. This product complies with the restrictions and requirements of NFPA79.

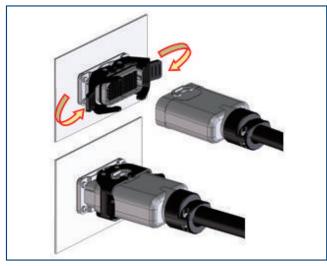
[Waterproof Type] **PQ50W Series**

1. Water Resistant (IP65)

Rated at IP65 when in the mated condition.

2. Special locking design.

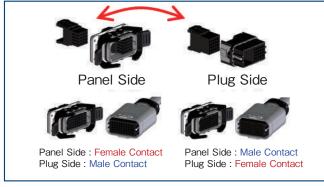
Special lever and cam design delivers easier operation and assists with the insertion and extraction of this connector.



Unique Lever Lock Design

3. Rear mounted unit offers easy operations.

Male and Female plastic crimp case can be installed from both the panel side metal shell and plug side.



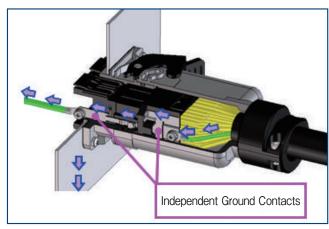
Supports Rear Mounting of Unit

4. Metal plated cover with engineering plastic resin adds strength and EMI protection.

This robust connector uses a metal plated material with specially engineered plastic for the cover and panel shell to ensure high ESD and EMI performance.

5. Independent ground contact design.

Secure grounding is accomplished by use of the plated plastic cover and the independent ground contacts.



Independent ground contact design.

6. Coding Key System Provides Flexibility with Multiple **Options**

The coding key system prevents incorrect mating and has multiple variations available.

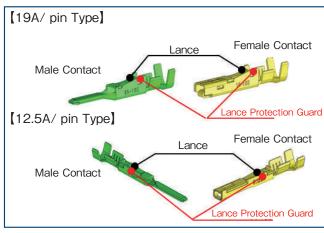
[Contact Variations]

1. Available Contact Options

Two styles are available; one with 19A/pin contacts or one with 12.5A/pin contacts.

2. Lance Protection Design

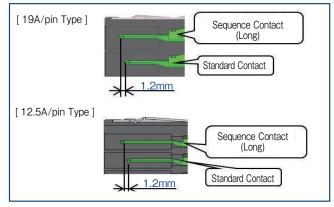
The wall on the side of the contact prevents lance deformation and entanglement between contacts.



Lance protection design

3. Sequential Contacts of Different Length are Available

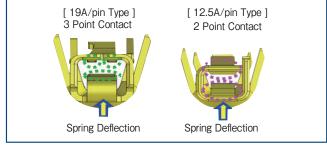
Two types of different contact length are available for the male contact.



Sequential Contacts with Differing Lengths

4. Highly Reliable Contact Design

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



Multiple contact points and flexible spring design

5. Can Use Contacts Between **Multiple Series**

The contacts for PQ50WA and PQ50WT are inter -compatible. The crimping equipment and parts can also be used interchangeably.



Product Specifications

[Non-waterproof Type] PQ50 Series

Rated Current	with UL1015, 16 AWG (Note 1)	Operating Temperature (Note 2)	-40 to +105℃
nated Current	19A	Storage Temperature	-55 to +85℃
Rated Voltage	600V AC/DC		

Note 1 : Depends on cable current capacity.

Note 2 : Includes temperature rise due to current flow.

Items	Specifications	Conditions
Contact Resistance	$10 m\Omega$ Max. (Excluding conductor resistance of the cable.)	Measured at 100mA
Insulation Resistance	Minimum of 5,000M Ω	Measured at 500V DC
Withstand Voltage	No insulation breakdown	Apply 2,200V AC for 1 min.
Mating Durability	Contact resistance : Increase by $20m\Omega$ or less from the initial value.	500 times
Vibration Resistance	No electrical discontinuity of 10 μ s or more.	Frequency 10 to 55Hz (5 min/cycle). With half amplitude 0.75mm, 2 hours each for 3 directions.
Shock Resistance	No broken, cracked or loosened parts.	Acceleration: 490m/s², Duration: 11ms, Sine Half-wave: 3 times each in 6 axial directions
Temperature Cycles	Change of contact resistance : $20\text{m}\Omega$ or less No broken, cracked or loosened parts.	Temperature : -55 \rightarrow +15 to 35 \rightarrow +105 \rightarrow +15 to +35°C Time : 30 \rightarrow 2 to 3 \rightarrow 30 \rightarrow 2 to 3 min. for 5cycles
		Left in environment of 60°C± 2 and humidity of 90 to 95% for 96 hours.
Salt Water Spray	No significant corrosion or damage that impairs functioning.	5% concentration of salt water spray for 48 hours.(in mated condition)

Note: For test methods not described here, JIS C 5402 is applied.



[Non-waterproof Type] PQ50S Series

Rated Current	with UL1007, 18 AWG (Note 1)	Operating Temperature (Note 2)	-40 to +105℃
nated Current	12.5A	Storage Temperature	-55 to +85℃
Rated Voltage	300V AC/DC		

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

Items	Specifications	Conditions
Contact Resistance	$5m\Omega$ Max. (Excluding conductor resistance of the cable.)	Measured at 100mA
Insulation Resistance	Minimum of 5,000M Ω	Measured at 500V DC
Withstand Voltage	No insulation breakdown	Apply 2,200V AC for 1 min.
Mating Durability	Contact resistance : Increase by $10m\Omega$ or less from the initial value.	500 times
Vibration Resistance	No electrical discontinuity of 10 μ s or more.	Frequency 10 to 55Hz (5 min/cycle) With half amplitude 0.75mm, 2 hours each for 3 directions.
Shock Resistance	No broken, cracked or loosened parts.	Acceleration: 490m/s², Duration: 11ms, Sine Half-wave: 3 times each in 6 axial directions
Temperature Cycles	Change of contact resistance : $10m\Omega$ or less No broken, cracked or loosened parts.	Temperature : $-55 \rightarrow +15$ to $35 \rightarrow +105 \rightarrow +15$ to $+35^{\circ}$ C Time : $30 \rightarrow 2$ to $3 \rightarrow 30 \rightarrow 2$ to 3 min. for 5cycles
$\begin{array}{c} \text{Change of contact resistance}: 10\text{m}\Omega \text{ or less} \\ \text{Insulation resistance}: \text{Minimum of } 1,000\text{M}\Omega \text{ (after drying)}. \\ \text{No broken, cracked or loosened parts}. \end{array}$		Left in environment of 60°C± 2 and humidity of 90 to 95% for 96 hours.
Salt Water Spray	No significant corrosion or damage that impairs functioning.	5% concentration of salt water spray for 48 hours. (in mated condition)

Note : For test methods not described here, JIS C 5402 is applied.



[Wateproof Type] PQ50W Series

Rated Current	with UL1007, 18 AWG (Note 1)	Operating Temperature (Note 2)	-40 to +105℃
nateu Gullelli	12.5A	Storage Temperature	-55 to +85℃
Rated Voltage	300V AC/DC		

Note 1 : Depends on cable current capacity. (With 12.5A/pin type contacts)

Note 2 : Includes temperature rise due to current flow.

Items	Specifications	Conditions
Contact Resistance	$5m\Omega$ max (Excluding conductor resistance of the cable.)	Measured at 100mA
Insulation Resistance	Minimum of 5,000M Ω	Measured at 500V DC
Withstand Voltage	No insulation breakdown	Apply 2,200V AC for 1 min
Mating Durability	Contact resistance : Increase by $10m\Omega$ or less from the initial value.	500 times
Vibration Resistance	No electrical discontinuity of 10 μ s or more.	Frequency 10 to 55Hz (5 min/cycle) With half amplitude 0.75mm, 2 hours each for 3 directions.
Shock Resistance	No broken, cracked or loosened parts.	Acceleration: 490m/s², Duration: 11ms, Sine Half-wave: 3 times each in 6 axial directions
Temperature Cycles	Change of contact resistance : $10m\Omega$ or less No broken, cracked or loosened parts.	Temperature : $-55 \rightarrow +15$ to $35 \rightarrow +105 \rightarrow +15$ to $+35^{\circ}$ C Time : $30 \rightarrow 2$ to $3 \rightarrow 30 \rightarrow 2$ to 3 min. for 5cycles
Moisture Resistance in Steady State	Change of contact resistance : $10m\Omega$ or less Insulation resistance : $1,000M\Omega$ or more (after drying) No broken, cracked or loosened parts.	Left in environment of 60°C± 2 and humidity of 90 to 95% for 96 hours.
Salt Water Spray	No significant corrosion or damage that impairs functioning.	5% concentration of salt water spray for 48 hours. (in mated condition)
Water Resistance	IP65	

Note : For test methods not described here, JIS C 5402 is applied.



Materials / Finish

●PQ50 Series, PQ50S-36pos. Type

Item	Parts	Materials	Finish	Remarks	
December	Crimp Case	PBT Resin	Black	UL94V-0	
Receptacle	Panel Shell	Zinc Die Cast	Nickel Plating	-	
	Crimp Case	PBT Resin	Black	UL94V-0	
	Crimp Case Shell	Stainless Steel			
Plug	Cover Case	Zinc Die Cast	Nickel Plating		
	M4 Pan Head Machine Screw	Steel	Nickel Flatting	-	
	Clamp Metal	Steel			
	Crimp Case	PBT Resin	Black	UL94V-0	
	In-line Plug Shell	Zinc Die Cast			
In-line Plug	In-line Cover Case	Zinc Die Cast	Niekal Diating		
	M4 Pan Head Machine Screw	Steel	Nickel Plating	-	
	Clamp Metal	Steel			

PQ50S-48pos. Type

Item	Parts	Materials	Finish	Remarks
	Crimp Case	PBT Resin	Black	UL94V-0
Receptacle	Panel Shell	Heat-resistant Engineering Plastic Resin	Niekal Diating	
	M4 Insert Nut	Brass	Nickel Plating	-
	Crimp Case	PBT Resin	Black	UL94V-0
	Crimp Case Shell	Stainless Steel		-
Dive	Cover Case	Heat-resistant Engineering Plastic Resin	Nickel Plating	UL94V-0
Plug	M4 Pan Head Machine Screw	Steel		
	Clamp Metal	Steel		-
	M4 Insert Nut	Brass		
	Crimp Case	PBT Resin	Black	UL94V-0
	Crimp Case Shell	Stainless Steel		-
Diselet Assets Diver	Cover Case	Heat-resistant Engineering Plastic Resin	Nickel Plating	UL94V-0
Right Angle Plug	M4 Pan Head Machine Screw	Steel		-
	Cable Clamp	PBT Resin	Black	UL94V-0
	M4 Insert Nut	Brass	Nickel Plating	-



PQ50W Series

Item	Parts	Materials	Finish	Remarks
Crimp case	Crimp Case	PBT Resin	Black	UL94V-0
	Panel Shell	Heat-resistant Engineering Plastic Resin	Niekal Diation	UL94V-0
	Ground Contact	Stainless Steel	Nickel Plating	
Receptacle	O-ring for Mating	NBR		-
	Lock Lever	PA Resin	Black	UL94V-0
	Rubber Packing	NBR		-
	Plug Shell	Heat-resistant Engineering Plastic Resin	Black	UL94V-0
	Ground Contact	Stainless Steel	Nickel Plating	
	M2 Tapping Screw	041	Trivalent Chromate	
	Cover Case	Steel	Nickel Plating	-
Plug	Gasket	NBR	Red	
	Clamp Metal (Body)	Heat resistant Francisco Pleatic Paris	Disale	111.041/.0
	Cable Clamp	Heat-resistant Engineering Plastic Resin	Black	UL94V-0
	M4 Insert Nut	Brass	Niekal Diation	
	M3 Pan Head Machine Screw	Steel	Nickel Plating	-

Contacts (PQ50/PQ50S/PQ50W)

Part No.	Parts	Materials	Finish
PQ50-15PCFA	Mala Oratast		
PQ50A-15PCFA	Male Contact		
PQ50-15SCFA	Female Contact		
PQ50-1618PCFA	Male Contact		
PQ50A-1618PCFA	Male Contact		
PQ50-1618SCFA	Female Contact		
PQ50-2022PCFA	- Male Contact		Gold Plating (Contact Area)
PQ50A-2022PCFA		Copper Alloy	+ Tin Plating (Barrel Area)
PQ50-2022SCFA	Female Contact		
PQ50S-1822PCFA	Male Contact		
PQ50SA-1822PCFA	Male Contact		
PQ50S-1822SCFA	Female Contact		
PQ50S-2428PCFA Male Contact			
PQ50SA-2428PCFA	Wale Contact		
PQ50S-2428SCFA	Female Contact		



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.

Crimp Housing

PQ 50 W S - 25 P - UNIT

6 6

Series Name	PQ	6	20 : 20pos. unit
2 Termination Style	Crimping		25 : 25pos. unit 48 : 48pos. unit
9	W : Waterproof Type None : Non-waterproof Type	6	 P : Male Contact S : Female Contact
	S : Small Contact (12.5A/pin) Type None : Standard Contact (19A/pin) Type	7	UNIT : Rear mount multiple unit (PQ50W) None : Rear mount multiple unit (PQ50, PQ50S)

Crimp Contact

PQ 50 S A - 1822 PC F A

6 6 78

0	Series Name	PQ	6		15: 14 to 15 AWG
2	Termination Style	Crimping		Туре	1618 : 16 to 18 AWG 1822 : 18 to 22 AWG 2022 : 20 to 22 AWG 2428 : 24 to 28 AWG
3	Contact Size	S: Small Contact (12.5A/pin) Type None: Standard Contact (19A/pin) Type	6	Contact Gender	PC : Male Contact SC : Female Contact
4	Contact Usage	A : Sequence Contact (Long Contact) None : Standard Contact	7	Contact Shapes	F : Reel Contact None : Loose Contact
			8	Contact Plating Type	A : Gold Plating (Contact Area)

■ Clamp Metal, Cable Clamp

PQ W - CM (17.5)

0	Series Name	PQ	4	(15.0) : For applicable cable diameter ϕ 15.0
2		W: Waterproof Type None: Non-waterproof Type		(17.5) : For applicable cable diameter ϕ 17.5 (22.0) : For applicable cable diameter ϕ 22.0
3		CM : Clamp Metal, Cable Clamp CML : Cable Clamp for Right Angle		

■ PQ50/PQ50S Series

PQ 50 S - 48 P - PC MA

0	Series Name	PQ		P : Male Contact S : Female Contact
2	Termination Style	Crimping		
3	Contact Size	S : Small Contact (12.5A/pin) Type None : Standard Contact (19A/pin) Type	6 Case Type	PC: Plug Cover Case JC: In-line Plug Cover Case FL: Panel Shell DS: In-line Plug Shell PCL: Right Angle Plug Cover Case
4	Shell Size	20 : 20pos. Shell Type 48 : 48pos. Shell Type	7 Case Material	MA: Heat-resistant Engineering Plastic Resin None: Zinc Die Cast

■ PQ50W Series

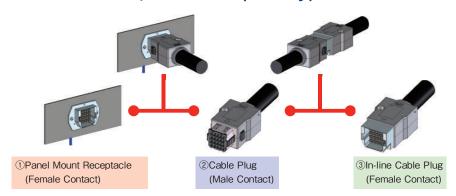
PQ 50 W - 50 - PCA

2 3

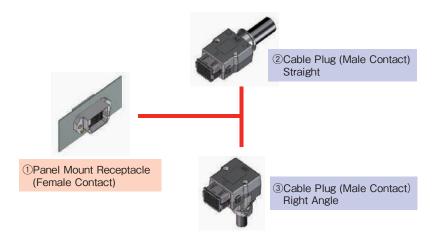
0	Series Name	PQ	4 Shell Size	50 : 50pos. Shell Type
2	Termination Style	Crimping	6 Case Type	PCA: Plug Cover Case
8	Connector Specifications	Waterproof Type		FLA: Panel Shell

Functional Diagram

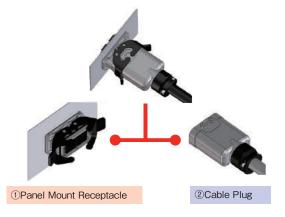
●PQ50 Series, PQ50S-36pos. Type



●PQ50S-48pos. Type



PQ50W Series

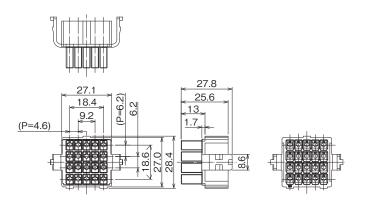


Panel Mount Receptacle

PQ50 Series

Crimp Case (19A/pin for Female Contact)





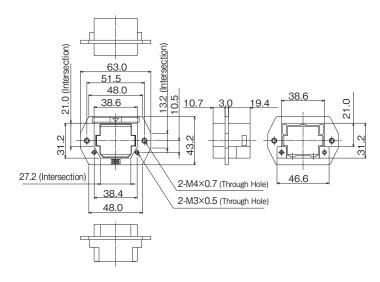


Part No.	HRS No.	Purchase Unit
PQ50-20S	CL0236-2014-2-00	50pcs per box
PQ50-20S(01)	CL0236-2014-2-01	1pc per box



Panel Shell



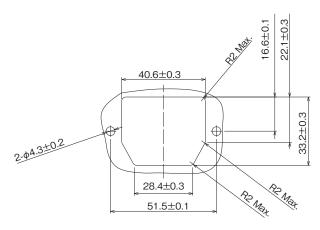


Panel Mounting Dimensions

Recommended panel dimensions for attaching panel shell from panel's front side.

> 16.6±0.1 21±0.3 40.6±0.3 33.2±0.3 2-M3×0.5 (Through Hole) 48.6±0.3 51.5±0.1

Recommended panel dimensions for attaching panel shell from panel's back side.



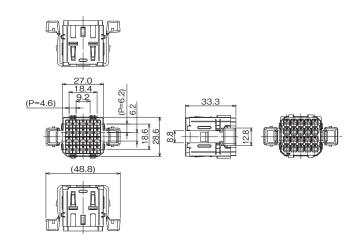
Part No.	HRS No.	Purchase Unit
PQ50-20S-FL	CL0236-2001-0-00	50pcs per box
PQ50-20S-FL(01)	CL0236-2001-0-01	1pc per box

Cable Plug

PQ50 Series

Crimp Case (19A/pin for Male Contact)

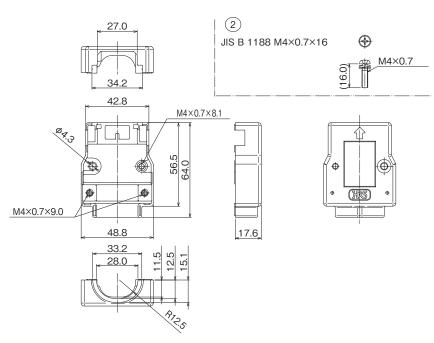




Part No.	HRS No.	Purchase Unit
PQ50-20P	CL0236-2011-4-00	50pcs per box
PQ50-20P(01)	CL0236-2011-4-01	1pc per box

Plug Cover Case





Part No.	HRS No.	Purchase Unit	Remarks
PQ50-20P-PC	CL0236-2000-8-00	100pcs per box	Use 2pcs per set. 50 sets of plug cover cases.
PQ50-20P-PC(01)	CL0236-2000-8-01	2pcs per box	1 set of plug cover case

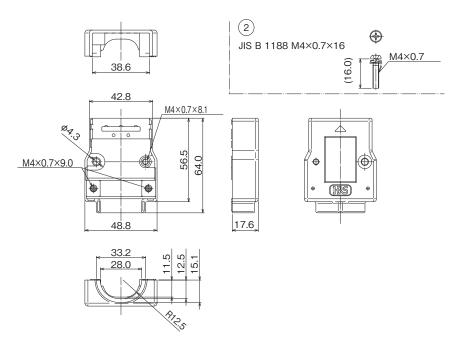


In-Line Cable Plug

PQ50 Series

In-line Plug Cover Case

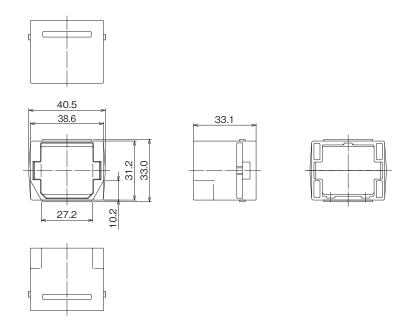




Part No.	HRS No.	Purchase Unit	Remarks
PQ50-20S-JC	CL0236-2002-3-00	100pcs per box	Use 2pcs per set. 50 sets of In-line plug cover cases.
PQ50-20S-JC(01)	CL0236-2002-3-01	2pcs per box	1 set of In-line plug cover case

●In-line Plug Shell





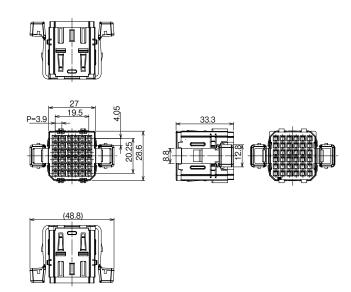
Part No.	HRS No.	Purchase Unit
PQ50-20S-DS	CL0236-2015-5-00	50pcs per box
PQ50-20S-DS(01)	CL0236-2015-5-01	1pc per box

Cable Plug

PQ50S-36pos. Type

Crimp Case (12.5A/pin for Male Contact)





Part No.	HRS No.	Purchase Unit
PQ50S-36P	CL0236-2123-0-00	50pcs per box

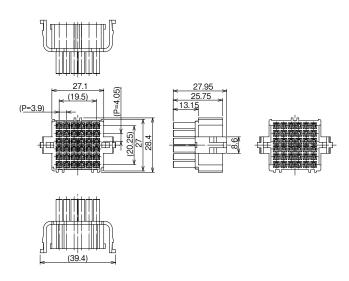
Note: For the cover case, select PQ50-20P-PC for the PQ50 Series.

Panel Mount Receptacle

PQ50S-36pos. Type

Crimp Case (12.5A/pin for Female Contact)





Part No.	HRS No.	Purchase Unit
PQ50S-36S	CL0236-2122-0-00	50pcs per box

Note: For the cover case, select PQ50-20S-FL for the PQ50 Series.

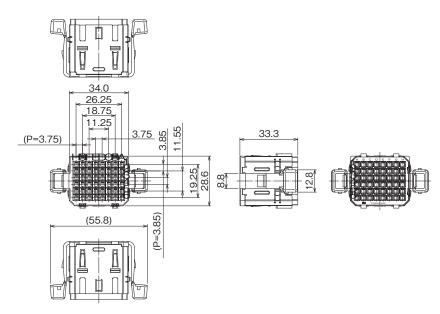
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Cable Plug

PQ50S-48pos. Type

Crimp Case (12.5A/pin for Male Contact)

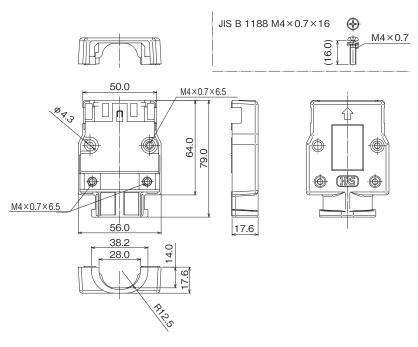




Part No.	HRS No.	Purchase Unit
PQ50S-48P	CL0236-2023-3-00	60pcs per box
PQ50S-48P(01)	CL0236-2023-3-01	1pc per box

Plug Cover Case



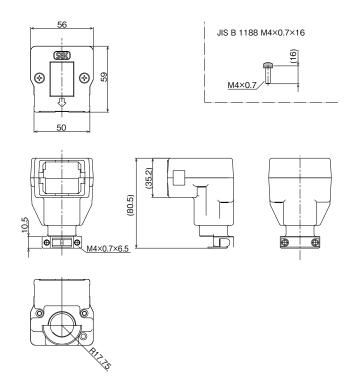


Part No.	HRS No.	Purchase Unit
PQ50S-48P-PCMA	CL0236-2129-0-00	60pcs per box
PQ50S-48P-PCMA(01)	CL0236-2129-0-01	1pc per box

PQ50S-48pos. Type

• Right Angle Plug Cover Case





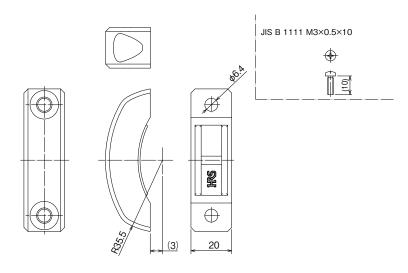
Part No.	HRS No.	Purchase Unit
PQ50S-48P-PCLMA	CL0236-2131-0-00	12pcs per box

Cable Clamp

PQ50S-48pos. Type For Right Angle Plug Cover Case

• Cable Clamp (φ17.5)





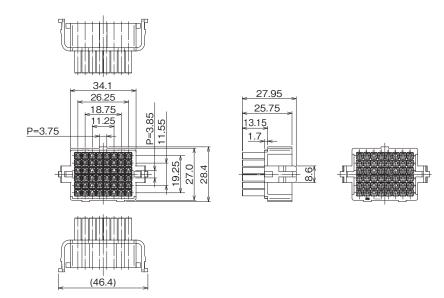
Part No.	HRS No.	Purchase Unit
PQ-CML(17.5)	CL0236-2079-8-00	12pcs per bag

Panel Mount Receptacle

PQ50S-48pos. Type

Crimp Cace (12.5A/pin for Female Contact)

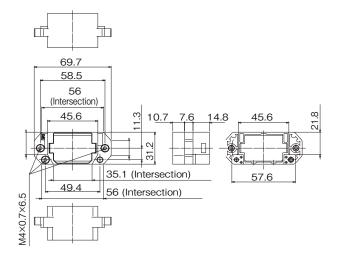




Part No.	HRS No.	Purchase Unit
PQ50S-48S	CL0236-2024-6-00	60pcs per box
PQ50S-48S(01)	CL0236-2024-6-01	1pc per box

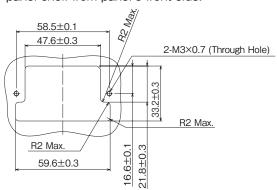
Panel Shell



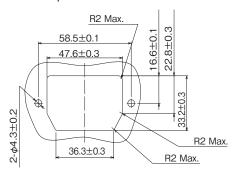


Panel Mounting Dimensions

Recommended panel dimensions for attaching panel shell from panel's front side.



Recommended panel dimensions for attaching panel shell from panel's back side.



Part No.	HRS No.	Purchase Unit
PQ50S-48S-FLMA	CL0236-2130-0-00	60pcs per box
PQ50S-48S-FLMA(01)	CL0236-2130-0-01	1pc per box

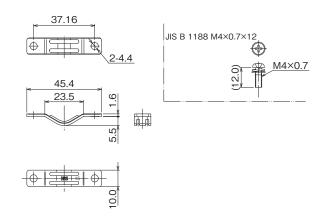


Clamp Metal

PQ50/PQ50S Series

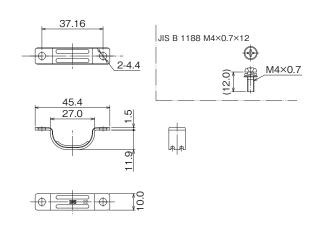
◆Clamp Metal for \$\phi\$15.0mm Cable Type





Part No.	HRS No.	Purchase Unit
PQ-CM(15.0)	CL0236-2005-1-00	60pcs per bag
PQ-CM(15.0)(01)	CL0236-2005-1-01	1pc per box





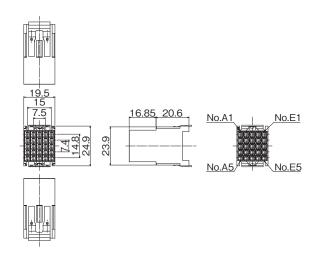
Part No.	HRS No.	Purchase Unit
PQ-CM(22.0)	CL0236-2013-0-00	50pcs per bag
PQ-CM(22.0)(01)	CL0236-2013-0-01	1pc per box

Cable Plug

PQ50W Series

Crimp Case (12.5A/pin for Male Contact)

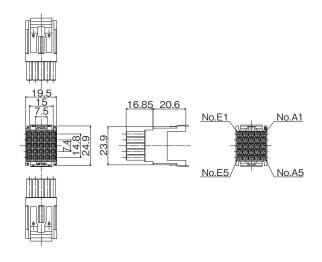




Part No.	HRS No.	Purchase Unit
PQ50WS-25P-UNIT	CL0236-2021-8-00	50pcs per box

Crimp Case (12.5A/pin for Female Contact)





Part No.	HRS No.	Purchase Unit
PQ50WS-25S-UNIT	CL0236-2022-0-00	50pcs per box

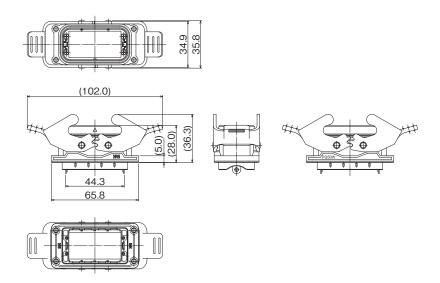


Panel Mount Receptacle

PQ50W Series

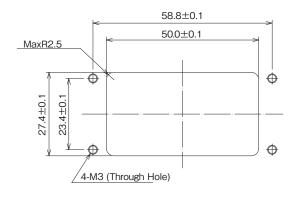
Panel Shell





Panel Mounting Dimensions

Panel dimensions for attaching panel shell from panel's front side.



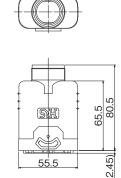
Part No.	HRS No.	Purchase Unit
PQ50W-50-FLA	CL0236-2132-0-00	20pcs per box

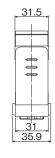
Cable Plug

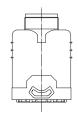
PQ50W Series

Cover Case









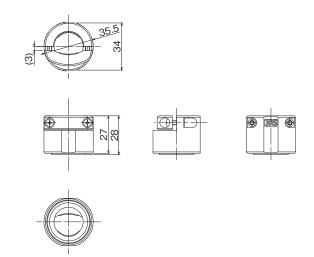
Part No.	HRS No.	Purchase Unit
PQ50W-50-PCA	CL0236-2133-0-00	10pcs per box

Cable Clamp

PQ50W Series

• Cable Clamp (\$\phi\$17.5, \$\phi\$15.0)





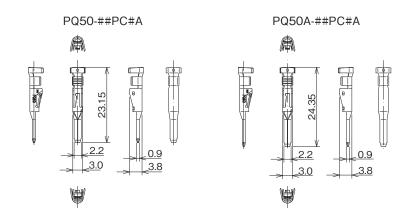
Part No.	HRS No.	Purchase Unit
PQW-CM(17.5)	CL0236-2019-6-00	25pcs per tray
PQW-CM(15.0)	CL0236-2104-0-00	25pcs per tray



Crimp Contact

Male Contact (19A/pin Type)



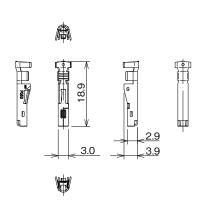


Part No.	HRS No.	Purchase Unit	Applicable Cables
PQ50-15PCFA (Note)	CL0236-2016-8-00		14 to 15 AWG insulator outer diameter Max. φ 3.3mm
PQ50A-15PCFA (Note)	CL0236-2073-1-00		14 to 15 AWG insulator outer diameter Max. φ 3.3mm
PQ50-1618PCFA	CL0236-2006-4-00	2.500,000,000,000	16 to 18 AWG insulator outer diameter Max. φ 3.3mm
PQ50A-1618PCFA	CL0236-2007-7-00	3,500pcs per reel	16 to 18 AWG insulator outer diameter Max. φ 3.3mm
PQ50-2022PCFA	CL0236-2031-1-00		20 to 22 AWG insulator outer diameter Max. φ 2.7mm
PQ50A-2022PCFA	CL0236-2032-4-00		20 to 22 AWG insulator outer diameter Max. φ 2.7mm
PQ50-15PCA	CL0236-2037-8-00		14 to 15 AWG insulator outer diameter Max. φ 3.3mm
PQ50A-15PCA	CL0236-2073-1-00		14 to 15 AWG insulator outer diameter Max. φ 3.3mm
PQ50-1618PCA	CL0236-2038-0-00	100000 000 000	16 to 18 AWG insulator outer diameter Max. φ 3.3mm
PQ50A-1618PCA	CL0236-2040-2-00	100pcs per bag	16 to 18 AWG insulator outer diameter Max. φ 3.3mm
PQ50-2022PCA	CL0236-2039-3-00		20 to 22 AWG insulator outer diameter Max. φ 2.7mm
PQ50A-2022PCA	CL0236-2041-5-00		20 to 22 AWG insulator outer diameter Max. φ 2.7mm

Note: Please see ATAI-E2926 for details on UL1015, 14 AWG cable crimping.

● Female Contact (19A/pin) Type



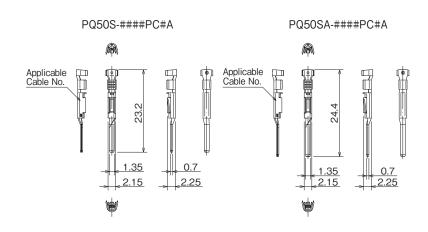


Part No.	HRS No.	Purchase Unit	Applicable Cables
PQ50-15SCFA (Note)	CL0236-2017-0-00		14 to 15 AWG insulator outer diameter Max. ϕ 3.3mm
PQ50-1618SCFA	CL0236-2008-0-00	3,500pcs per reel	16 to 18 AWG insulator outer diameter Max. ϕ 3.3mm
PQ50-2022SCFA	CL0236-2010-1-00		20 to 22 AWG insulator outer diameter Max. φ 2.7mm
PQ50-15SCA	CL0236-2043-0-00		14 to 15 AWG insulator outer diameter Max. φ 3.3mm
PQ50-1618SCA	CL0236-2044-3-00	100pcs per bag	16 to 18 AWG insulator outer diameter Max. ϕ 3.3mm
PQ50-2022SCA	CL0236-2045-6-00		20 to 22 AWG insulator outer diameter Max. φ 2.7mm

Note: Please see ATAI-E3038 for details on UL1015, 14 AWG cable crimping.

Male Contact (12.5A/pin Type)

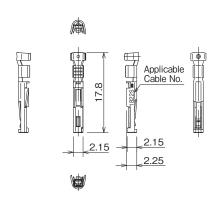




Part No.	HRS No.	Purchase Unit	Applicable Cables
PQ50S-1618PCFA	CL0236-2094-0-00		16 to 18 AWG insulator outer diameter Max. φ 2.25mm
PQ50S-1822PCFA	CL0236-2025-9-00	6,000pcs per reel	18 to 22 AWG insulator outer diameter Max. φ 2.25mm
PQ50SA-1822PCFA	CL0236-2029-0-00		18 to 22 AWG insulator outer diameter Max. φ 2.25mm
PQ50S-2428PCFA	CL0236-2027-4-00		24 to 28 AWG insulator outer diameter Max. φ 1.8mm
PQ50SA-2428PCFA	CL0236-2030-9-00		24 to 28 AWG insulator outer diameter Max. ϕ 1.8mm
PQ50S-1822PCA	CL0236-2046-9-00		18 to 22 AWG insulator outer diameter Max. φ 2.25mm
PQ50SA-1822PCA	CL0236-2048-4-00	100pcs per bag	18 to 22 AWG insulator outer diameter Max. φ 2.25mm
PQ50S-2428PCA	CL0236-2047-1-00		24 to 28 AWG insulator outer diameter Max. φ 1.8mm
PQ50SA-2428PCA	CL0236-2049-7-00		24 to 28 AWG insulator outer diameter Max. φ 1.8mm

● Female Contact (12.5A/pin Type)

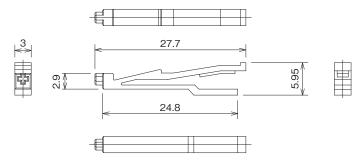




Part No.	HRS No.	Purchase Unit	Applicable Cables
PQ50S-1618SCFA	CL0236-2095-0-00		16 to 18 AWG insulator outer diameter Max. φ 2.25mm
PQ50S-1822SCFA	CL0236-2026-1-00	6,000pcs per reel	18 to 22 AWG insulator outer diameter Max. φ 2.25mm
PQ50S-2428SCFA	CL0236-2028-7-00		24 to 28 AWG insulator outer diameter Max. ϕ 1.8mm
PQ50S-1822SCA	CL0236-2050-6-00	100000 000 000	18 to 22 AWG insulator outer diameter Max. φ 2.25mm
PQ50S-2428SCA	CL0236-2051-9-00	100pcs per bag	24 to 28 AWG insulator outer diameter Max. ϕ 1.8mm

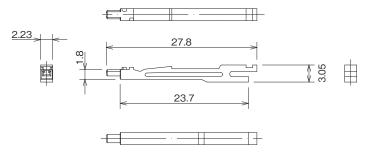
Coding Key System

For 19A/pin Type Crimp Case



Part No.	HRS No.	Purchase Unit
PQ50-SC-KY	CL0236-2009-2-00	100pcs per bag

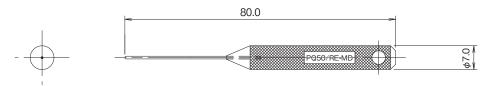
●For 12.5A/pin Type Crimp Case



Part No.	HRS No.	Purchase Unit
PQ50S-SC-KY	CL0236-2033-7-00	100pcs per bag

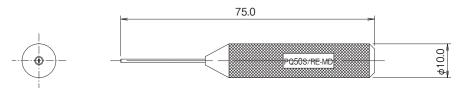
Extraction Tool

• 19A/pin Type for Crimp Case



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

• 12.5A/pin Type for Crimp Case

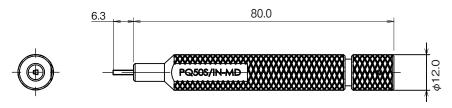


Part No.	HRS No.	Purchase Unit
PQ50S/RE-MD	CL0902-2202-2-00	1pc per box



Pin Push Inspection Tool

12.5A/pin Type for Crimp Case



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) .

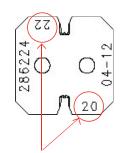
Automatic Crimping Machine/Applicator for Automatic Crimping Machine

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.





Switch wire crimper and insulation crimper die according to the wire size being used.

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
- ·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.