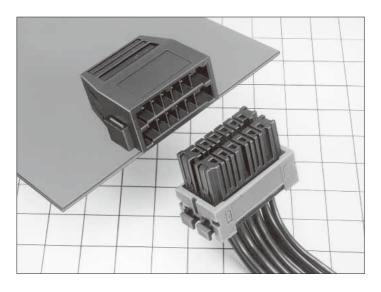
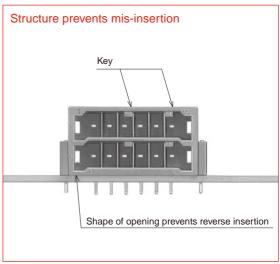
Power Supply Connectors For Industrial Equipment

PX Series





■Features

1. Power supply connector for high-current Withstands voltage of 2200V AC max. and 10A/contact (60A/6 pos.) of rating current.

2. Housing design prevents incorrect insertion

Opening section is designed to prevent reverse insertion and mating direction is easily checked. Additionally, the opening section is keyed to prevent misalignment of plugs in parallel applications.

3. Reduced Size

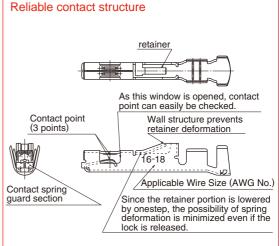
When compared to conventional products, Hirose's plug is smaller in size by 65% and the receptacle is smaller by 55%.

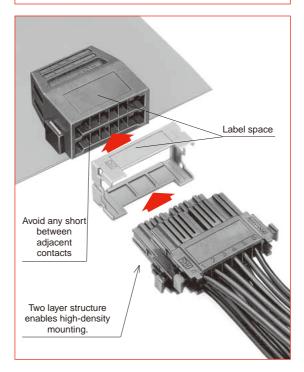
4. Reliable contact structure

- **1**Three point contact
- @Gold plated contact point (standard) with high-level environmental resistance
- ③Contact spring guard structure
- 4)Structure prevents retainer deformation

5. Easy Cable Assembly

- ①Use of dedicated crimping tools will make harness work easier. One tool crimps both AWG#16 and AWG#18 wire.
- ②Positive lock can be felt on contact insertion.
- (3) Release of contact lock can easily be performed with dedicated jig, which facilitates the wiring modification after assembly.





■Product Specifications

Operating temperature range		-55℃~+105℃
Ratings	Voltage rating	600V AC
	Current rating	10A

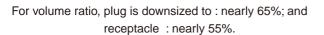
Description	Specifications	Requirements
1.Contact resistance	10mΩ max.	100mA
2.Insulation resistance	1000MΩ min.	500V DC
3.Withstanding voltage	No flashover or insulation breakdown.	2200V AC / 1 minute.
4.Durability	①Contact resistance : 20mΩ max. ②No damage, cracks or looseness of parts	1000 cycles
5.Vibration	①No electrical discontinuity of 10μs or more.	Frequency:10 to 55Hz, single amplitude of 0.75mm, 2 hours, 3axis
6.Shock	②Contact resistance : 20mΩ max. ③No damage, cracks or looseness of parts	Acceleration: 490m/s² Duration: 11ms Test at sine half-wave, 3 axes, bi-directional three times, respectively.
7.Temperature cycle	①Contact resistance : 20mΩ max. ②Insulation resistance : 1000MΩ min. ③No damage, cracks or looseness of parts	Temperature : $-55 \rightarrow +5 \sim +35 \rightarrow +85 \rightarrow +5 \sim +35 ^{\circ}$ Time : $30 \rightarrow 10 \sim 15 \rightarrow 30 \rightarrow 10 \sim 15 \text{Minutes}$ 5 cycles
8.Humidity	①Contact resistance : 20mΩ max. ②Insulation resistance : 1000MΩ min. ③No damage, cracks or looseness of parts	96 hours at 40±2℃ and humidity of 90~95%
9.Salt spray	①No corrosions	5% salt water for 48 hours

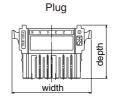
■Materials

Parts	Material	Finish
Contacts	Copper alloy	Gold plating
Insulator	PBT (UL94V-0)	
Metal fixture	Copper alloy	Tin reflow plating

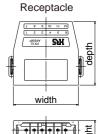
● Comparison In Size With Conventional Equivalent

(mm				
		PX	A company-made	
Plug	Width	34.2	44.94	
	Height	7.0	7.15	
	Depth	23.0	22.80	
	Width	28.0	39.40	
Receptacle	Height	14.8	18.47	
	Depth	27.4	27.18	









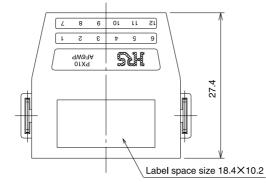


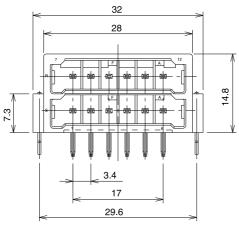
■Receptacles

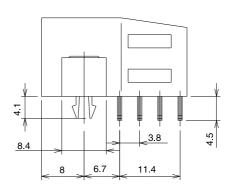
●6 pos.×2 row Type



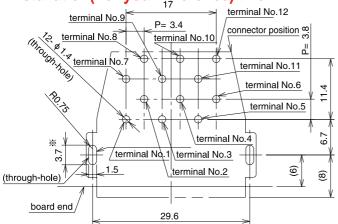
Part No.	CL No.	RoHS
PX10-AF6WP(50)	236-0001-0-50	YES





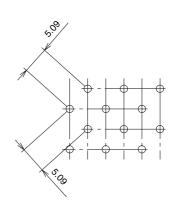


● Dimensions For Circuit Board Installation(For your reference) $t=1.6\sim2.4$



 \star Where t=1.6 (Setting value depends on thickness of boards.)

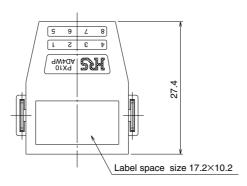
●PCB mounting pattern

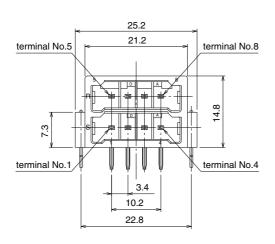


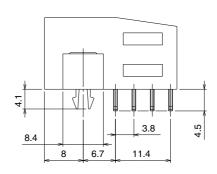
●4 pos.×2 row Type



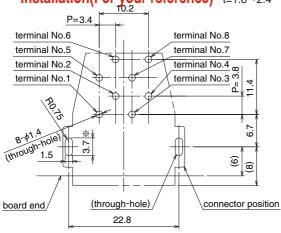
Part No.	CL No.	RoHS
PX10-AD4WP(50)	236-0005-0-50	YES





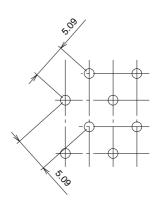


Dimensions For Circuit BoardInstallation(For your reference) t=1.6∼2.4



* Where t=1.6 (Setting value depends on thickness of boards.)

●PCB mounting pattern



■Plug

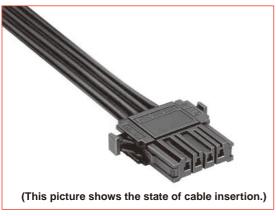
●6-Position Type



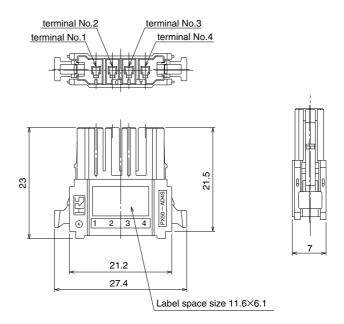
Part No.	CL No.	RoHS
PX50-AF6S	236-0002-2	YES

terminal No.4 terminal No.3 terminal No.2 terminal No.5 terminal No.1 terminal No.6 23 28 34.2 Label space size 18.4×6.1

●4-Position Type



Part No.	CL No.	RoHS
PX50-AD4S	236-0006-3	YES



■Simple-Type Plug Holder Cover

●For 6-Position Type



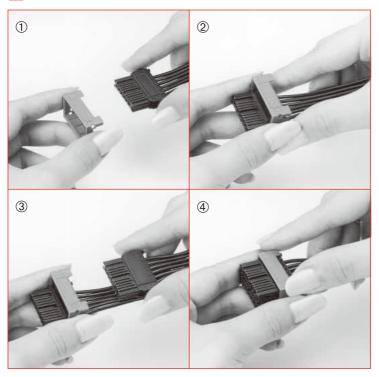
236-0004-8

YES

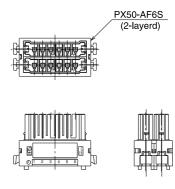
29.6	-
10.6	
Label Space Size 18.4×6.1	

◆Installation status

PX-6WS-CV



◆Installation method ●6-Position Type



15.9

<Caution>The holder cover is not a rugged support fixture but only meant for alignment of the plugs. When external force is imposed by pulling of cables, etc. before mating, please bundle all cables together around the connector with union bands, etc.

■Crimp contact

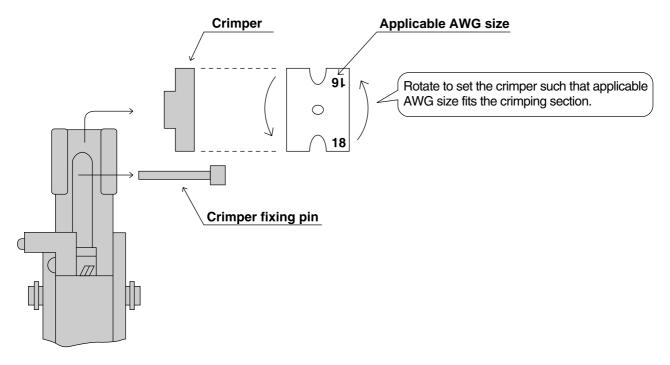
Applicable wire size	Packaging	Part No.	CL No.	Quantity	RoHS
40.40	Reel	PX50-SC-231	236-0003-5	5,000	VE0
16, 18	Bag	PX50-SC-131	236-0008-9	200	YES

Please order by integral multiple of the packing volume.

■Tools

Туре	Description	Part No.	CL No.	Applicable contacts	
Automotic	Press unit	CM-105	901-0005-4	DV50 00 004	
Automatic	Applicator	AP105-PX50-3	901-2573-8	PX50-SC-231	
Manual	Hand tool (*)	HT104/PX50-3	250-0229-4	PX50-SC-131	
Contact extraction tool		PX50-SC-TC	250-0233-1	PX50-SC-*31	

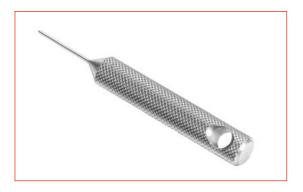
^{*}For our manual crimping tools, we employ the rotate-replace procedure to use the crimper depending on wire size.



[Manual crimping tool : crimped section]

Note: Since manual crimping tool cannot provide fine adjustment of crimp height, please use the proper crimp height of auto crimper in crimping of the wires other than specified ones

■Crimp Terminal Remoral Jig



Part No.	CL No.	RoHS
PX-50-SC-TC	250-0233-1	YES

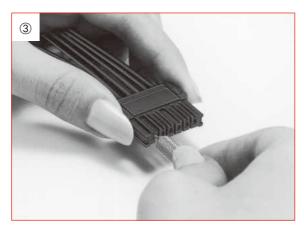
<WARNING>

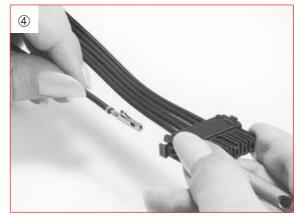
When the crimp terminal remoral jig is inserted and pushed from the mating face of a connector as shown below, retainer lock of the terminal will be released. Then please extract the cable. If the retainer is too lowered after extracting terminal, put it in a former position and reinsert. Position and direction of the jig top to be inserted are as shown in the Figures below. Be careful that any mistake will lead to the damage of terminal.

How To Extract Crimp Terminal









* Insert the jig top into the peak of convex section on terminal hole.



HIROSE ELECTRIC CO.,LTD.

6-3, Nakagawa Chuoh-2-Chome, Tsuzuki-Ku, Yokohama-Shi 224-8540, JAPAN TEL: +81-45-620-3526 Fax: +81-45-591-3726 http://www.hirose.com

http://www.hirose-connectors.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Heavy Duty Power Connectors category:

Click to view products by Hirose manufacturer:

Other Similar products are found below:

1424439 1424438 09330062652 605601-1 6340G1 6341G1 6360G1 6373G1 6374g2 6396G1 647757-1 6643411-1 6646058-2 6646137-1 6646138-1 6646348-1 6646479-1 6646608-1 6646786-1 6646940-1 6651525-1 6651529-1 6651778-1 6651788-1 696465-1 696475-1 73000005059 73000005349 73000005642 73080965046 765-15-0080A 765-16-0080B 789.700-44 789.700-54 80-1010 80-9 827381-1 829992-1 902-77-02113 PL00U-301-10D10 PM103MOOLOO PM212MOOLOO PM309FOOLOO PM324FOOLCH PMHPAF11S03 PMHPAF14S01 PMHPAM14P05 PMHPAS06 PMHPBF14S01 PP45PC12S