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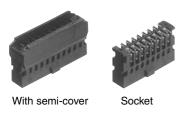
Panasonic

FOR PC BOARD TO WIRE

WIRE-PRESS

ideas for life





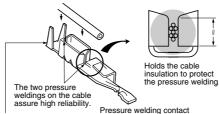
Compliance with RoHS Directive

FEATURES

1. Pressure welding method for superior wiring and no need to strip

Applicable wires: AWG #22, #24, #26, #28.

2. Two pressure weldings assure high contact reliability.



The depth of the contact portion provides stable contact

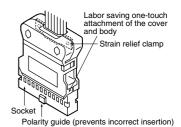
- 3. Labor saving one-touch attachment of the cover and socket body.
- 4. Even if the number of wires is samll, the stable pressure welding is acquired.



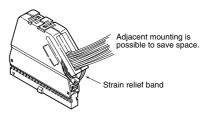
If the number of wires is small or if the insulation is thin, the strain relief



5. Angled hood cover type can save space and makes adjacent mounting possible.



Vertical hood cover type



Angled hood cover type

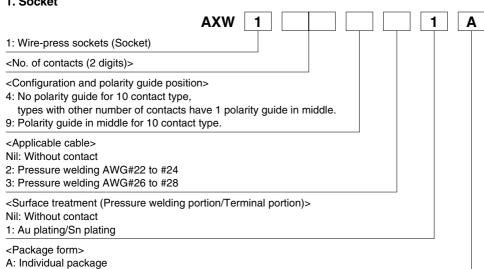
6. Fits MIL headers and low profile headers (box and open types). 7. Useful pressure welding tools are available.

APPLICATIONS

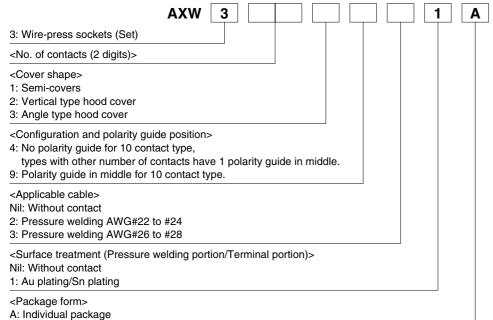
NC machine, automated equipment, office automation equipment, ME equipment, measurement equipment, communications equipment, amusement and game equipment.

ORDERING INFORMATION

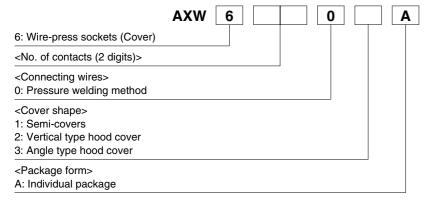
1. Socket



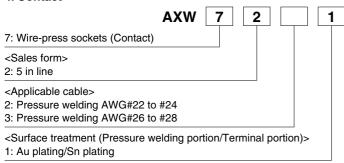
2. Socket (Set)



3. Cover

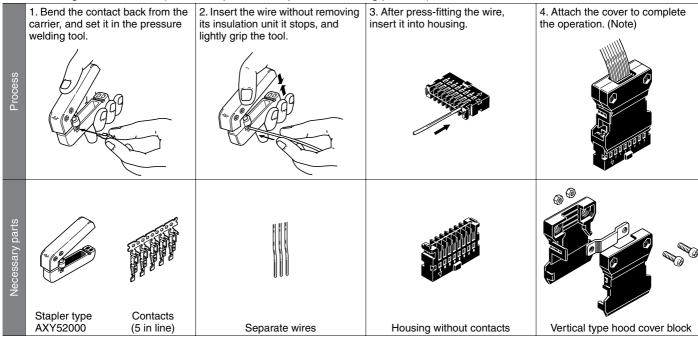


4. Contact



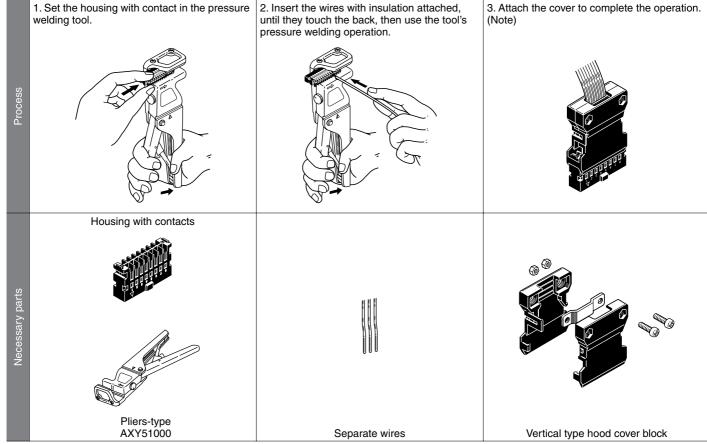
WIRING AND ASSEMBLY

1. When using small amounts (about 150 pins can be pressure welding per hour)



Note) There are 3 types of cover: semi-covers, vertical type hood cover blocks, and angle type hood cover blocks.

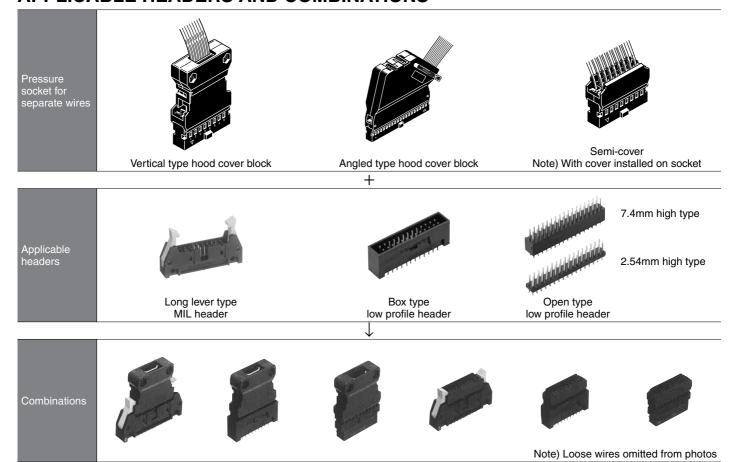
2. When using medium to large amounts (when using pliers-type pressure welding tool, about 450 pins per hour)



Note) There are 3 types of cover: semi-covers, vertical type hood cover blocks, and angle type hood cover blocks.



APPLICABLE HEADERS AND COMBINATIONS





PRODUCT TYPES

1. Individual parts (Standard)

			No. of	Part		Pac	king
	Туре		contacts		ole cable	Inner carton	Outer carton
_				AWG #22, 24 AXW110421A	AWG #26, 28 AXW110431A		
	Housing with contacts Note) Suitable for use of pliers type or desktop type pressure welding tool.		10	(Without polarity guide)	(Without polarity guide)		
			10	AXW110921A (With polarity guide)	AXW110931A (With polarity guide)		
			14	AXW114421A	AXW114431A		
			16	AXW116421A	AXW116431A		
			20	AXW120421A	AXW120431A	100	400
			26	AXW126421A	AXW126431A	100 pcs.	400 pcs.
	doomop typo prooc	-	30	AXW130421A	AXW130431A		
			34	AXW134421A	AXW134431A		
		-	40	AXW140421A	AXW140431A		
			50	AXW150421A	AXW150431A		
ousing		_	60	AXW160421A	AXW160431A		
ousing			64	AXW164421A	AXW164431A		
		-	10	AXW1104A (With			
			10		th polarity guide)		
		-	14		1144A		
			16 20		1164A		
	Housing without co	ontacts	26	AXW1204A			
	Note) Suitable for t	use of stapler-type	30	AXW1264A AXW1304A		100 pcs.	400 pcs.
	pressure welding to	ool.	34	AXW1304A AXW1344A			
		-	40		1404A		
			50		1504A		
			60		1604A		
			64		1644A		
			16		1602A		400 noo
			20		2002A	100 pcs.	400 pcs.
		Vertical type	26		2602A		
			30	AXW63002A AXW63402A AXW64002A AXW65002A		50 pcs. 200	
			34				
			40				200 pcs.
			50				
	Hood cover block		60	AXW6	6002A		
	Hood cover block		64	AXW6	6402A		
			26	AXW6	2603A		
			30	AXW6	3003A	50 pcs. 200 pcs	
			34	AXW6	3403A		
		Angled type	40		4003A		200 pcs.
over			50	AXW6			
			60		6003A		
			64		6403A		
		_	10		1001A		
			14		1401A		
			16		1601A		
			20		2001A		
	0		26		2601A	400	400
	Semi-cover		30		3001A	100 pcs.	400 pcs.
			34		3401A		
			40		4001A		
			50		5001A		
			60	AXW6	6001A		
			64			40 rows	400
	in line) (Notes 5 and	d 6)	5	AXW7221 (for AWG #22, 24)	AXW7231 (for AWG #26, 28)	40 rows (200pcs.)	400 rows (2,000 pcs.)

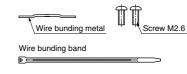
Notes) 1. The parts above are packaged individually. (Contact is tray packing)

- 2. The vertical type hood cover block is packaged with two covers (one with nuts), one wire bunding metal.

 3. The angled type hood cover block is packaged with two covers and one wire bunding band.

 4. The angled type hood cover for less than 20 contacts and the vertical type hood cover for less than 14 contacts are not available. Please use the semi-cover.

 5. There is a mark "22" on contacts for AWG #22 and #24, and mark "26" for AWG #26 and #28.
- 6. Remarks for contacts
 - 1) Reel packaging is available.







2. Set products (produced after order)

Set products are produced after an order is received, so if you have a tight deadline, please order the products on the above as stand-alone products.

	Set p	Set product		Part		Pac	king	
Type	Socket	Cover	No. of contacts		ole cable	Inner carton	Outer carton	
				AWG #22, 24	AWG #26, 28			
			16	AXW3162421A	AXW3162431A			
			20	AXW3202421A	AXW3202431A			
			26	AXW3262421A	AXW3262431A			
		Vertical true bood	30	AXW3302421A	AXW3302431A			
		Vertical type hood cover block	34	AXW3342421A	AXW3342431A			
		Servi Biesik	40	AXW3402421A	AXW3402431A			
			50	AXW3502421A	AXW3502431A			
			60	AXW3602421A	AXW3602431A			
			64	AXW3642421A	AXW3642431A			
			26	AXW3263421A	AXW3263431A			
			30	AXW3303421A	AXW3303431A			
		l	34	AXW3343421A	AXW3343431A			
		Angled type hood cover block	40	AXW3403421A	AXW3403431A			
		Cover block	50	AXW3503421A	AXW3503431A			
ull set	Housing with		60	AXW3603421A	AXW3603431A	50 pcs.	200 pcs.	
Note 1)	contacts		64	AXW3643421A	AXW3643431A	00 poo.		
			10	AXW3101421A	AXW3101431A			
			10	(Without polarity guide)	(Without polarity guide)			
			10	AXW3101921A (With polarity guide)	AXW3101931A (With polarity guide)			
		-	14	AXW3141421A	AXW3141431A			
		Semi-cover	16	AXW3161421A	AXW3161431A			
			20	AXW3101421A	AXW3101431A			
			26	AXW3261421A	AXW3261431A			
			30	AXW3201421A AXW3301421A	AXW3201431A AXW3301431A			
			34	AXW3341421A	AXW3341431A			
			40					
			50	AXW3401421A AXW3501421A	AXW3401431A			
					AXW3501431A			
			60	AXW3601421A	AXW3601431A			
			64	AXW3641421A	AXW3641431A			
		-	16	AXW3				
		-	20	AXW3				
		-	26	AXW32624A				
		Vertical type hood	30	AXW3				
		cover block	34		3424A			
			40	AXW34024A				
			50	AXW35024A				
			60	AXW36024A				
			64		6424A	1		
		-	26	AXW32634A				
		-	30	AXW33034A				
		Angled type hood	34		3434A		s. 200 pcs.	
		cover block	40		4034A			
lalf-set	Housing without		50		AXW35034A 50 pcs.	50 pcs.		
Note 2)	contacts		60			30 pos. 20	•	
			64		6434A			
			10		nout polarity guide)			
			10	,	ith polarity guide)			
			14		1414A			
			16		1614A			
			20	AXW3	2014A			
		Somi cover	26	AXW3	2614A			
		Semi-cover	30	AXW3	3014A			
			34	AXW3	3414A			
			40	AXW3	4014A			
			50		5014A			
				60		6014A		
			00					

Notes) 1. Full-set products (Housing with contact and cover included)

- (1) Suitable for use with pliers type.
- (2) Produced after an order is received. If you are in a hurry, please order a housing with contact and cover separately from the list above.
- 2. Half-set products (Housing without contact and cover included)

 - (1) Suitable for use with stapler-type pressure welding tool
 (2) As half-sets do not include a contact, order the appropriate stand-alone contact from the list above.
 (3) Produced after an order is received. If you are in a hurry, please order a housing without contact, contacts and cover separately from the list on page 235.



SPECIFICATIONS

1. Characteristics

Item		Specifications	Conditions
	Rated current	AWG#22, 24: 3A, AWG#26: 2A, AWG#28: 1A	
	Rated voltage	250V AC	
Electrical	Breakdown voltage	1,000V AC for 1 min.	Detection current: 1mA
characteristics	Insulation resistance	Min. 1,000MΩ	Using 500V DC megger
	Contact resistance	Max. 20mΩ	Measured based on the HP4338B measurement method of JIS C 5402
Mechanical characteristics	Unit removal force	Min. 0.343N {35gf}	Measured by steel-pin-gauge with 0.64±0.01mm square (surface roughness 0.1μm)
Characteristics	Composite insertion force	Max. 2.94N {300gf} × No. of contacts	
Life time characteristics	Insertion and removal life	500 times	Repeat insertion and removal speed of max. 600 times/hour
	Ambient temperature	−50°C to 105°C	No freezing at low temperatures Ambient temperature of cables should be considered
Environmental characteristics	Vibration resistance	Double amplitude: 1.52mm Frequency: 10 to 55Hz (for 3 axes)	No interruption of current longer than 1μs (Max. carrying current 100mA should be impressed during the test)
	Shock resistance	490m/s ² {50G} (for 3 axes)	No interruption of current longer than 1μs (Max. carrying current 100mA should be impressed during the test)

2. Materials and surface treatment

	Part name	Materials	Surface treatment
Housing		Glass fiber reinforced PBT (UL94V-0)	_
	Semi-cover	Glass fiber reinforced PBT (UL94V-0)	_
Cover	Hood cover	Glass fiber polycarbonate resin (UL94V-0) Vertical type hood cover (16, 20 contact)	_
Contact		Copper alloy	Contact portion: Ni plating on base, Au plating on surface Contact pressure portion: Ni plating on base, Sn plating on surface
Lead wire bundling metal (enclosed with vertical type hood cover)		Steel plate	-
Lead wire bundling band (enclosed with angled type hood cover)		Polyimide resin	_

3. Applicable cable

No.	Cross section area	External figure	Rated current	Remarks
AWG#22	0.3 mm ²	1 E to 1 1 dia	3A	12 wires/0.18 should used
AWG#24	0.2 mm ²	1.5 to 1.1 dia.	3A	
AWG#26	0.14mm²	1.3 to 1.1 dia.	2A	
AWG#28	0.08mm ²		1A	

DIMENSIONS (Unit: mm)

The CAD data of the products with a CAD Data mark can be downloaded from: http://panasonic-electric-works.net/ac

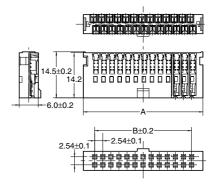
• Housing with contacts

CAD Data



Dimension table (mm)

No. of contacts	Polarity guide	А	В
10	0	17.3	10.16
10	1	17.3	10.16
14	1	22.4	15.24
16	1	24.9	17.78
20	1	30.0	22.86
26	1	37.6	30.48
30	1	42.7	35.56
34	1	47.8	40.64
40	1	55.4	48.26
50	1	68.1	60.96
60	1	80.8	73.66
64	1	85.9	78.74



General tolerance: ±0.3

Note) Dimensions of the housing without contact is the same as the right figure.



1) When vertical type hood covers are mated (16, 20, 26, 30, 34, 40, 50, 60 and 64 contacts)

CAD Data

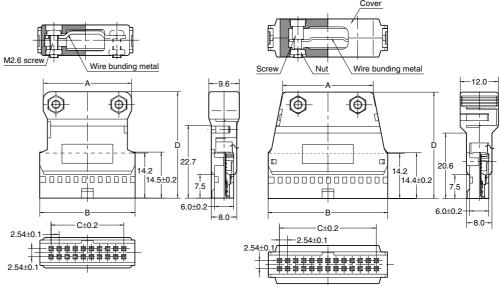


Dimension table (mm)

No. of contacts	А	В	С	D
16	24.0	24.92	17.78	33.5
20	27.8	30.0	22.86	33.5
26	28.5	37.6	30.48	33.5
30	33.5	42.7	35.56	33.5
34	38.6	47.8	40.64	33.5
40	43.6	55.4	48.26	41.5
50	56.0	68.1	60.96	41.5
60	68.7	80.8	73.66	41.5
64	73.8	85.9	78.74	41.5

16 and 20 contacts





General tolerance: ±0.3

2) When angle type hood covers are mated (26, 30, 34, 40, 50, 60 and 64 contacts)

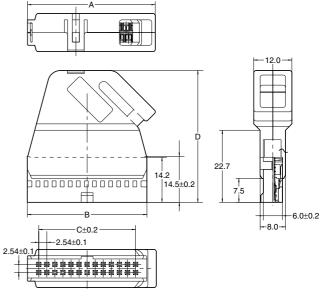
CAD Data





Dimension table (mm)

No. of contacts	А	В	С	D
26	40.5	37.5	30.48	41.5
30	45.6	42.6	35.56	41.5
34	50.7	47.7	40.64	41.5
40	62.5	55.3	48.26	52.5
50	75.2	68.0	60.96	52.5
60	87.9	80.7	73.66	52.5
64	93.0	85.8	78.74	52.5



General tolerance: ±0.3

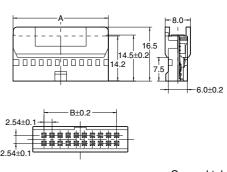
3) When semi-covers are mated

CAD Data



Dimension table (mm)

No. of contacts	А	В
10	17.3	10.16
14	22.38	15.24
16	24.92	17.78
20	30.0	22.86
26	37.62	30.48
30	42.7	35.56
34	47.78	40.64
40	55.4	48.26
50	68.1	60.96
60	80.8	73.66
64	85.88	78.74



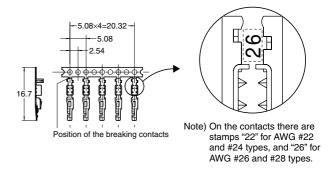
General tolerance: ±0.3



4) Contacts (5 in line)

CAD Data





General tolerance: ±0.3

NOTES

1. Use wires and contact types that match.

The contact's clamp is tamped with 22 or 26

Use AWG#22 or #24 wire with the type 22 contact and AWG #26 or #28 wire with the type 26 contact.

An incorrect combination will cause faulty connections.

2. Use wires having a correct outer insulation diameter.

The use of a wire with an outer insulation diameter larger than the allowable value or a wire with a hard material for the insulation will cause faulty connections. Furthermore, the use of a wire with an outer insulation diameter less than the allowable value will cause a drop in the clamp strength. Use wires with a suitable outer diameter and insulation material. Suitable wire diameters are shown in the table below.

Suitable wire diameters

Size	Insulation outer diameter	Remark		
AWG#22	1.5 dia. to	AWG #22 is Stranded wire of 12 stands/0.18		
AWG#24	1.1 ula.	Stranded wire		
AWG#26	1.3 dia. to	Stranded wire		
AWG#28	1.1 dia.	Stratiueu wire		

^{*} AWG#22 and #24 use different contacts from AWG#26 and #28. Refer to the part number chart for the part number.

3. Inserted wire length during wire pressure welding

Insert the wire to a proper length and perform the pressure welding. If the inserted length is too short, the wire will be pressure welded only at one location.

If the inserted length is too long, the wire will end up on the lance portion and a proper pressure welding will not be obtained.

- 4. Cut the end of the wire so that it is straight and flat. Be sure no uneven strands remain.
- 5. When pressure welding a wire, fully insert it to the proper position. Be sure to squeeze the lever unit it reaches the end position of the stroke.
- 6. After connecting the wire, check that the wire clamp firmly clamps the wire.
- 7. It may not be possible to cut a contact from the carrier by folding the contact only once.
- 8. The contact holder should be replaced as needed.

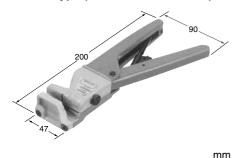
For other details, please verify with the product specification sheets.

PRESSURE WELDING TOOLS FOR SEPARATE WIRES

PRODUCT TYPES

Product name		Part No.	Pack	aging	
		rait No.	Inner carton	Outer carton	
Pressure welding tool	Pliers type pressure welding tool for separate wires (with feed mechanism)	AXY51000	_	1 no	
	Stapler type pressure welding tool for separate wires	AXY52000	_	1 pc.	
Accessory	Contact holder	AXY5801	_	200 pcs.	

• Pliers-type (with feed mechanism)



Pliers-type pressure welding tool for separate wires (with feed mechanism) AXY51000

Compliance with RoHS Directive

FEATURES

1. Weight balanced design for lightweight handling.

2. Lever Lock Mechanism Allows Reliable Pressure Welding

The lever lock mechanism prevents the lever from returning until the predetermined stroke is reached. This allows for reliable pressure welding, preventing variation due to differences between individual workers.

3. Automatic feed mechanism indicates the pressure welding terminal number after a pressure welding.

After each pressure welding, the automatic feed is performed one pitch at a time (2.54mm). At the same time, the number of the connector terminal being pressure-welded is indicated. If the terminal number is set initially, the connector can be moved to any position with the correct terminal number always displayed since the tool is directly linked with the connector.

4. Stroke adjustment feature.

The pressure welding stroke can be adjusted to match the diameter of the cable wire for reliable connections.

5. Enables pressure welding of both the socket with contacts ans individual contacts.

A cable can be connected with the contacts positioned in the socket housing (socket housing with contacts) or with the individual contacts separated from the socket housing.

6. Contact puller feature.

The contact puller permits incorrectly connected or unnecessary contacts to be pulled out.

Stapler type



Stapler type pressure welding tool for separate wires AXY52000

Compliance with RoHS Directive

FEATURES

mm

- 1. Compact and lightweight, it fits in a pocket.
- 2. Pressure-weld individual contacts.
- 3. Convenient for on-site maintenance work since connection is possible in small spaces.
- 4. Includes a contact puller.

NOTES

1. Never disammenble the tool. Also, do not subject it to shock or drop it from a high place.

For other details, please verify with the product specification sheets.