XW4N/XW4N 3.5mm-Pitch Push-In Terminal Block PCB Connectors

3.5mm-pitch push-in terminal block PCB connectors to greatly improve the efficiency of connector inserting & removing and cable wiring.

- Easy insertion & removal and high contact reliability are achieved with the unique connector engagement structure. It contributes to enhanced efficiency of inspection, assembly and maintenance.
- Compatible with through-hole-reflow, good for reflow mounting.
- Standard pin-number printed on the top surface of the socket, no extra spaces needed for pin identification such as on the surface of the PCB.
- Wiring efficiency is improved with the "hands-free" mechanism that keeps screwdriver inserted.
- Options available with a coding key for preventing erroneous insertion.
- See the "Standards certification / conformity list" for information on conformity to certification standards.



List



Model	Single-Row Type, Straight Terminals	Single-Row Type, Right-Angle Terminals	Double-Row Type, Straight Terminals	Double-Row Type, Right-Angle Terminals
	XW4M-LLD1-V1DL	XW4M-LILID1-H1DLI	XW4M-ULID2-V1DL	XW4M-LILD2-H1DL
Plug	Restored in the	· DEET.		
Model	Single-R	ow Type	Double-F	Row Type
	XW4N-		XW4N-L	
Socket				

Part Number Structure

3.5mm-pitch Push-in Terminal Block PCB Connectors

Plug: XW4M-	D	(2)	(3)) (4)
Socket: XW4	N	D [(2	 2) (4)	

(1)	(2)	(3)	(4)
Number of Contecto	1: Single-Row	V1: Straight Terminals	S: Tin Plating
Number of Contacts	2: Double-Row	H1: Right-Angle Terminals	A: Gold Plating

Ratings

	Cross section of solid wire	0.2 mm ² to 1.5 mm ²		
	Cross section of stranded wire	0.2 mm ² to 1.5 mm ²		
Applicable wire ranges *1	Cross section of stranded wire with ferrule with plastic sleeve	0.2 mm ² to 0.75 mm ²		
	Cross section of stranded wire with ferrule without plastic sleeve	0.2 mm ² to 1.5 mm ²		
Stripping length of solid and stranded wires		9.5 mm MIN		
IEC rated voltage (III/3)		160 V		
IEC rated	current	8 A		
Usage gr	oup (UG)	В	D	
UL rated voltage		300 V (Only XW4NDD, XW4MD1DD_)	300 V	
		(Only XW4M-002-00)		
UL rated current		8 A		
Withstand voltage		1,600 VAC 1 min (leakage current: 1 mA max.)		
Applicable tool		XW4Z-00B *2		

*1. Refer to page 12 for details of applicable wire ranges and recommended ferrule terminals.*2. Refer to page 13 for details of recommended tools.

Characteristics

Ambient temperature range	-40 to 100°C (with no condensation or icing)
Ambient humidity range	5 to 85%RH
Ambient storage temperature	-40 to 70°C (with no condensation or icing)
Ambient storage humidity	5 to 70%RH
Connectors mating temperature range	-5 to 40°C (with no condensation or icing)
Connectors mating humidity range	5 to 70%RH
Insertion durability	100 times

Materials and Finishes

Plug: XW4M

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Model	Tin Plating	Gold Plating	
Item	XW4M-DDD-DDDS	XW4M-DDD-DDA	
Housing Plug	LCP (UL94 V-0)		
	Copper alloy	Copper alloy	
Plug contact	Terminal part: Tin plating	Terminal part: Tin plating	
	Mating section: Tin plating	Mating section: Gold plating	
Fastening pins*	Copper alloy/Tin plating		
*Fastening pins are	for 10 contacts max. only		

Socket: XW4N

Model Item	Tin Plating XW4N-□□D□-S	Gold Plating XW4N-□□D□-A						
Housing cover	PA (UL94 V-0)							
Housing Socket	PA (UL94 V-0)							
Lever	PBT (UL94 V-0)							
	Copper alloy	Copper alloy						
Socket contact	Wiring section: Tin plating	Wiring section: Tin plating						
	Mating section: Tin plating	Mating section: Gold plating						
Spring	Stainless steel	Stainless steel						

Coding key: XW4Z-C001

Model Item	XW4Z-C001
Coding key	PBT (UL94 V-0)

Standards

	UL1059
Compliant standard	CSA (C22.2No.158)
	IEC 60947-7-4

XW4M

XW4M/XW4N

Single-Row Plug

Dimensions

CAD Data Please visit our CAD Data website, which is noted on the last page.

(Unit: mm)

CAD Data

XW4M-DD1-V1D (straight terminals)



XW4M-DD1-H1D (right-angle terminals)



Board Dimension (Top View)

Side View (incl.XW4N)

Dimensions

Number of contacts	Model (straight)	Model (right-angle)	D	E	Lock pins	Number of contacts	Model (straight)	Model (right-angle)	D	Е	Lock pins
2	XW4M-02D1-V1D	XW4M-02D1-H1D	16.9	3.5	w/	11	XW4M-11D1-V1D	XW4M-11D1-H1D	48.4	35.0	w/o
3	XW4M-03D1-V1D	XW4M-03D1-H1D	20.4	7.0	w/	12	XW4M-12D1-V1D	XW4M-12D1-H1D	51.9	38.5	w/o
4	XW4M-04D1-V1D	XW4M-04D1-H1D	23.9	10.5	w/	13	XW4M-13D1-V1D	XW4M-13D1-H1D	55.4	42.0	w/o
5	XW4M-05D1-V1D	XW4M-05D1-H1D	27.4	14.0	w/	14	XW4M-14D1-V1D	XW4M-14D1-H1D	58.9	45.5	w/o
6	XW4M-06D1-V1D	XW4M-06D1-H1D	30.9	17.5	w/	15	XW4M-15D1-V1D	XW4M-15D1-H1D	62.4	49.0	w/o
7	XW4M-07D1-V1D	XW4M-07D1-H1D	34.4	21.0	w/	16	XW4M-16D1-V1D	XW4M-16D1-H1D	65.9	52.5	w/o
8	XW4M-08D1-V1D	XW4M-08D1-H1D	37.9	24.5	w/	17	XW4M-17D1-V1D	XW4M-17D1-H1D	69.4	56.0	w/o
9	XW4M-09D1-V1D	XW4M-09D1-H1D	41.4	28.0	w/	18	XW4M-18D1-V1D	XW4M-18D1-H1D	72.9	59.5	w/o
10	XW4M-10D1-V1D	XW4M-10D1-H1D	44.9	31.5	w/	20	XW4M-20D1-V1D	XW4M-20D1-H1D	79.9	66.5	w/o

xw4m/xw4n **XW4M**

Double-Row Plug

Dimensions

CAD Data Please visit our CAD Data website, which is noted on the last page.

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3.5

10.7

(Unit: mm)

CAD Data

XW4M-DD2-V1D (straight terminals)





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XW4M-DD2-H1D (right-angle terminals)



Dimensions

Number of contacts	Model (straight)	Model (right-angle)	D	E	Lock pins	Number of contacts	Model (straight)	Model (right-angle)	D	E	Lock pins
4	XW4M-04D2-V1D	XW4M-04D2-H1D	16.9	3.5	w/	22	XW4M-22D2-V1D	XW4M-22D2-H1D	48.4	35.0	w/o
6	XW4M-06D2-V1D	XW4M-06D2-H1D	20.4	7.0	w/	24	XW4M-24D2-V1D	XW4M-24D2-H1D	51.9	38.5	w/o
8	XW4M-08D2-V1D	XW4M-08D2-H1D	23.9	10.5	w/	26	XW4M-26D2-V1D	XW4M-26D2-H1D	55.4	42.0	w/o
10	XW4M-10D2-V1D	XW4M-10D2-H1D	27.4	14.0	w/	28	XW4M-28D2-V1D	XW4M-28D2-H1D	58.9	45.5	w/o
12	XW4M-12D2-V1D	XW4M-12D2-H1D	30.9	17.5	w/o	30	XW4M-30D2-V1D	XW4M-30D2-H1D	62.4	49.0	w/o
14	XW4M-14D2-V1D	XW4M-14D2-H1D	34.4	21.0	w/o	32	XW4M-32D2-V1D	XW4M-32D2-H1D	65.9	52.5	w/o
16	XW4M-16D2-V1D	XW4M-16D2-H1D	37.9	24.5	w/o	34	XW4M-34D2-V1D	XW4M-34D2-H1D	69.4	56.0	w/o
18	XW4M-18D2-V1D	XW4M-18D2-H1D	41.4	28.0	w/o	36	XW4M-36D2-V1D	XW4M-36D2-H1D	72.9	59.5	w/o
20	XW4M-20D2-V1D	XW4M-20D2-H1D	44.9	31.5	w/o	40	XW4M-40D2-V1D	XW4M-40D2-H1D	79.9	66.5	w/o

Ordering Information

Plug, Single-Row, Straight Terminals



Plug, Single-Row, Right-Angle Terminals



Number of	Plug, Single-	Row, Straight	Plug, Single-Ro	Plug, Single-Row, Right-Angle			
contacts	Tin Plating	Gold plating	Tin Plating	Gold plating	Quantity (pcs)		
2	XW4M-02D1-V1DS	XW4M-02D1-V1DA	XW4M-02D1-H1DS	XW4M-02D1-H1DA	85		
3	XW4M-03D1-V1DS	-	XW4M-03D1-H1DS	-	70		
4	XW4M-04D1-V1DS	XW4M-04D1-V1DA	XW4M-04D1-H1DS	XW4M-04D1-H1DA	60		
5	XW4M-05D1-V1DS	-	XW4M-05D1-H1DS	-	50		
6	XW4M-06D1-V1DS	XW4M-06D1-V1DA	XW4M-06D1-H1DS	XW4M-06D1-H1DA	45		
7	XW4M-07D1-V1DS	-	XW4M-07D1-H1DS	-	40		
8	XW4M-08D1-V1DS	XW4M-08D1-V1DA	XW4M-08D1-H1DS	XW4M-08D1-H1DA	35		
9	XW4M-09D1-V1DS	-	XW4M-09D1-H1DS	-	35		
10	XW4M-10D1-V1DS	XW4M-10D1-V1DA	XW4M-10D1-H1DS	XW4M-10D1-H1DA	30		
11	XW4M-11D1-V1DS	-	XW4M-11D1-H1DS	-	30		
12	XW4M-12D1-V1DS	XW4M-12D1-V1DA	XW4M-12D1-H1DS	XW4M-12D1-H1DA	25		
13	XW4M-13D1-V1DS	-	XW4M-13D1-H1DS	-	25		
14	XW4M-14D1-V1DS	XW4M-14D1-V1DA	XW4M-14D1-H1DS	XW4M-14D1-H1DA	20		
15	XW4M-15D1-V1DS	-	XW4M-15D1-H1DS	-	20		
16	XW4M-16D1-V1DS	XW4M-16D1-V1DA	XW4M-16D1-H1DS	XW4M-16D1-H1DA	20		
17	XW4M-17D1-V1DS	-	XW4M-17D1-H1DS	-	20		
18	XW4M-18D1-V1DS	XW4M-18D1-V1DA	XW4M-18D1-H1DS	XW4M-18D1-H1DA	20		
20	XW4M-20D1-V1DS	XW4M-20D1-V1DA	XW4M-20D1-H1DS	XW4M-20D1-H1DA	15		

Plug, Double-Row, Straight Terminals







Number of	Plug, Double-	Row, Straight	Plug, Double-R	ow, Right-Angle	Minimum Packaging
contacts	Tin Plating	Gold Plating	Tin Plating	Gold Plating	Quantity (pcs)
4	XW4M-04D2-V1DS	XW4M-04D2-V1DA	XW4M-04D2-H1DS	XW4M-04D2-H1DA	85
6	XW4M-06D2-V1DS	-	XW4M-06D2-H1DS	-	70
8	XW4M-08D2-V1DS	XW4M-08D2-V1DA	XW4M-08D2-H1DS	XW4M-08D2-H1DA	60
10	XW4M-10D2-V1DS	-	XW4M-10D2-H1DS	-	50
12	XW4M-12D2-V1DS	XW4M-12D2-V1DA	XW4M-12D2-H1DS	XW4M-12D2-H1DA	45
14	XW4M-14D2-V1DS	-	XW4M-14D2-H1DS	-	40
16	XW4M-16D2-V1DS	XW4M-16D2-V1DA	XW4M-16D2-H1DS	XW4M-16D2-H1DA	35
18	XW4M-18D2-V1DS	-	XW4M-18D2-H1DS	-	35
20	XW4M-20D2-V1DS	XW4M-20D2-V1DA	XW4M-20D2-H1DS	XW4M-20D2-H1DA	30
22	XW4M-22D2-V1DS	XW4M-22D2-V1DA	XW4M-22D2-H1DS	XW4M-22D2-H1DA	30
24	XW4M-24D2-V1DS	XW4M-24D2-V1DA	XW4M-24D2-H1DS	XW4M-24D2-H1DA	25
26	XW4M-26D2-V1DS	-	XW4M-26D2-H1DS	-	25
28	XW4M-28D2-V1DS	-	XW4M-28D2-H1DS	-	20
30	XW4M-30D2-V1DS	XW4M-30D2-V1DA	XW4M-30D2-H1DS	XW4M-30D2-H1DA	20
32	XW4M-32D2-V1DS	XW4M-32D2-V1DA	XW4M-32D2-H1DS	XW4M-32D2-H1DA	20
34	XW4M-34D2-V1DS	XW4M-34D2-V1DA	XW4M-34D2-H1DS	XW4M-34D2-H1DA	20
36	XW4M-36D2-V1DS	XW4M-36D2-V1DA	XW4M-36D2-H1DS	XW4M-36D2-H1DA	20
40	XW4M-40D2-V1DS	XW4M-40D2-V1DA	XW4M-40D2-H1DS	XW4M-40D2-H1DA	15

XW4M/XW4N XW4N

Single-Row Socket

Dimensions

CAD Data Please visit our CAD Data website, which is noted on the last page.

(Unit: mm)

CAD Data

XW4N-001-0





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Number of contacts	Model	A	В	С
2	XW4N-02D1-	15.9	14.5	3.5
3	XW4N-03D1-	19.4	18	7
4	XW4N-04D1-	22.9	21.5	10.5
5	XW4N-05D1-	26.4	25	14
6	XW4N-06D1-	29.9	28.5	17.5
7	XW4N-07D1-	33.4	32	21
8	XW4N-08D1-	36.9	35.5	24.5
9	XW4N-09D1-	40.4	39	28
10	XW4N-10D1-	43.9	42.5	31.5
11	XW4N-11D1-	47.4	46	35
12	XW4N-12D1-	50.9	49.5	38.5
13	XW4N-13D1-	54.4	53	42
14	XW4N-14D1-	57.9	56.5	45.5
15	XW4N-15D1-	61.4	60	49
16	XW4N-16D1-	64.9	63.5	52.5
17	XW4N-17D1-	68.4	67	56
18	XW4N-18D1-	71.9	70.5	59.5
20	XW4N-20D1-	78.9	77.5	66.5

XW4N

XW4M/XW4N

Double-Row Socket

Dimensions

CAD Data Please visit our CAD Data website, which is noted on the last page.

(Unit: mm)

CAD Data

XW4N-002-0







Dimensions

Number of contacts	Model	Α	В	С
4	XW4N-04D2-	15.9	14.5	3.5
6	XW4N-06D2-	19.4	18	7
8	XW4N-08D2-	22.9	21.5	10.5
10	XW4N-10D2-	26.4	25	14
12	XW4N-12D2-	29.9	28.5	17.5
14	XW4N-14D2-	33.4	32	21
16	XW4N-16D2-	36.9	35.5	24.5
18	XW4N-18D2-	40.4	39	28
20	XW4N-20D2-	43.9	42.5	31.5
22	XW4N-22D2-	47.4	46	35
24	XW4N-24D2-	50.9	49.5	38.5
26	XW4N-26D2-	54.4	53	42
28	XW4N-28D2-	57.9	56.5	45.5
30	XW4N-30D2-	61.4	60	49
32	XW4N-32D2-	64.9	63.5	52.5
34	XW4N-34D2-	68.4	67	56
36	XW4N-36D2-	71.9	70.5	59.5
40	XW4N-40D2-	78.9	77.5	66.5

Ordering Information

Socket, Single-Row



Number of contacts	Tin Plating	Gold Plating	Minimum Packaging Quantity (pcs)
2	XW4N-02D1-S	XW4N-02D1-A	190
3	XW4N-03D1-S	-	160
4	XW4N-04D1-S	XW4N-04D1-A	130
5	XW4N-05D1-S	-	110
6	XW4N-06D1-S	XW4N-06D1-A	100
7	XW4N-07D1-S	-	90
8	XW4N-08D1-S	XW4N-08D1-A	80
9	XW4N-09D1-S	-	70
10	XW4N-10D1-S	XW4N-10D1-A	70
11	XW4N-11D1-S	-	60
12	XW4N-12D1-S	XW4N-12D1-A	60
13	XW4N-13D1-S	-	50
14	XW4N-14D1-S	XW4N-14D1-A	50
15	XW4N-15D1-S	-	50
16	XW4N-16D1-S	XW4N-16D1-A	40
17	XW4N-17D1-S	-	40
18	XW4N-18D1-S	XW4N-18D1-A	40
20	XW4N-20D1-S	XW4N-20D1-A	30

Socket, Double-Row



Number of contacts	Tin Plating	Gold Plating	Minimum Packaging Quantity (pcs)
4	XW4N-04D2-S	XW4N-04D2-A	133
6	XW4N-06D2-S	-	105
8	XW4N-08D2-S	XW4N-08D2-A	91
10	XW4N-10D2-S	-	77
12	XW4N-12D2-S	XW4N-12D2-A	70
14	XW4N-14D2-S	-	63
16	XW4N-16D2-S	XW4N-16D2-A	56
18	XW4N-18D2-S	-	49
20	XW4N-20D2-S	XW4N-20D2-A	42
22	XW4N-22D2-S	XW4N-22D2-A	42
24	XW4N-24D2-S	XW4N-24D2-A	35
26	XW4N-26D2-S	-	35
28	XW4N-28D2-S	-	35
30	XW4N-30D2-S	XW4N-30D2-A	28
32	XW4N-32D2-S	XW4N-32D2-A	28
34	XW4N-34D2-S	XW4N-34D2-A	28
36	XW4N-36D2-S	XW4N-36D2-A	28
40	XW4N-40D2-S	XW4N-40D2-A	21

Accessories

Screwdriver					
Appearance	Model	Description of Application			
NAR A	XW4Z-00B	Screwdriver for XW4N only.			
Coding key	Γ				
Appearance	Model	Description of Application			
	XW4Z-C001	A coding key that prevents erroneous insertion.			

Coding procedure

Use the following procedure to do the coding.

- (1) Snap off the coding key from the rectangular protection holder. (fig. 1)
- (2) Align the OMRON logo on the coding key with insertion hole as fig.2 and insert the coding key straight into insertion hole of the connector until the end.

If the coding position is wrong or the coding key falls during the process, please extract the coding key with tweezers and retry the coding.

(3) Tilt the holding part and snap off the tip of coding key. (fig.3)







fig.2



fig.3

Accessories

Coding pattern

Connector	XW4N					XW	/4M					
Insertion spot/ Coding pattern	(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
1	О	О	О							О	О	0
2	О	О		О					О		О	0
3	О	О			О				О	О		0
4	О	О				О			О	О	О	
5	О		О	О				О			О	0
6	О		О		О			О		О		0
7	О		О			О		О		О	О	
8	О			О	О			О	О			О
9	О			О		О		О	О		О	
10	О				О	О		О	О	О		
11		О	О	О			О				О	0
12		О	О		О		О			О		О
13		О	О			О	О			О	О	
14		О		О	О		О		О			0
15		О		О		О	О		О		О	
16		О			О	О	О		О	О		
17			О	О	О		О	О				0
18			О	О		О	О	О			О	
19			О		О	О	О	О		О		
20				О	О	О	О	О	О			

XW4N (Socket, Single-Row Type)



XW4N (Socket, Double-Row Type)



XW4M (Plug, Single-Row Type)



XW4M (Plug, Double-Row Type)



Precautions

Definition of Warning and Caution

Precautions for Safe Use	Indicates the items to be implemented or avoided to ensure a safe use of the product.
Precautions for Correct Use	Indicates the items to be implemented or avoided to prevent failure to operate and malfunctions, and to prevent adversely affecting the performance and function of the product.

Precautions for Safe Use

- Observe the ratings, specifications and storage conditions.
- Do not drop the product. Doing so may result in the product's failure to fully demonstrate its functions.
- Do not damage the cores when stripping.
- Do not use in areas subject to high temperatures, high humidity, or toxic gases such as sulfuric gas (H₂S, SO₂), ammonia gas (NH₃), nitric gas (HNO₃), or chlorine gas (Cl₂). Otherwise, it can cause corrosive damage to the contacts and result in malfunction.
- Do not use the product in oil or water, or in an environment always subjected to splashes of water or oil. Doing so can cause malfunction due to ingression of water or oil.
- Do not use or store the product in the following environment.
- Places subject to intense temperature change
- Places subject to high humidity, condensation
- Places subject to intense vibration
- Places subject to direct sunlight
- Places subject to sea breeze
- Do not perform wiring to the release hole.
- Do not tilt or twist the flat-blade screwdriver while it is still inserted into the release hole. Doing so may result in damage to the terminal block.
- Make sure not to drop the flat-blade screwdriver inserted into the release hole.
- Do not forcibly bend or stretch the wire. Doing so may result in wire breakage. In addition, do not apply excessive force to the connector. Doing so will result in poor contact due to damage or deformation.
- Do not insert more than one wire into one terminal (insertion) hole.
- To prevent wiring materials from smoking or ignition, confirm wire ratings.
- Do not touch the product with wet hands.
- Coding Key
- Do not drop the coding key or touch the tip of key. The tip of key may be damaged.
- When snapping off the tip of the key, do not collide the holding part with the connector. The connector may be damaged.
- When doing the coding, please check the coding pattern carefully. If the coding pattern is wrong it can prevent correct mating of the connectors.
- The coding key is exclusively for the XW4M/XW4N. Do not use it for other connectors.

Precautions for Correct Use

- When wiring, please see that no stress will be applied to the product and wires. Secure the wires so that they will not vibrate with the equipment, etc. at set state.
- Do not perform wiring with power turned on.
- Connecting Wires with Ferrules and Solid Wires

Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block. If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

• Connecting Stranded Wires

Use the following procedure to connect the wires to the terminal block.

- (1) Hold a flat-blade screwdriver at an angle and insert it into the release hole. The angle should be between 10° and 15°. If the flat-blade screwdriver is inserted correctly, you will feel the spring in the release hole.
- (2) With the flat-blade screwdriver still inserted into the release hole, insert the wire straight into the terminal block until the end strikes the terminal block. At that time, insert the wire at stranded state so that the elements will not be scattered.
- (3) Remove the flat-blade screwdriver from the release hole.

Removing Wires

Use the following procedure to remove wires from the terminal block. The same method is used to remove stranded wires, solid wires, and ferrules.

- (1) Hold a flat-blade screwdriver at an angle and insert it into the release hole.
- (2) With the flat-blade screwdriver still inserted into the release hole, remove the wire from the insertion hole.
- (3) Remove the flat-blade screwdriver from the release hole.



Precautions

Precautions for Correct Use

• PA is used in XW4N housing materials, and the insertion & removal force and the insertion feeling will change depending on the water absorption state.

Excessive water absorption may result in slight interference with mating components during insertion, but it will not affect the performance and functionality of the product.

- Inserting and Removing Connectors
- Inserting Connectors

Insert the connector straight into the plug while pushing the central part of the socket lever. In case of reversed insertion, the connector cannot be inserted to the end.

Removing Connectors

Pull off the socket straight from the plug while pushing the central part of the socket lever. Do not pull off by twisting, otherwise damage may result.





Π

Coding Key

- Please insert the coding key in the right direction until the end of the coding key has been reached.
- Do not use the products in locations subject to high temperature or humidity.
- · Do not insert the connector with strong force if mating of the connector is prevented. The connector or coding key may be damaged.

Storage

Pay attention to the following during extended storage.

- (1) Do not store in locations subject to dust or high humidity.
- (2) Do not store in locations close to sources of gases such ammonia or sulfide gas.

Applicable wire ranges

Wire Type	Ratings	Conductor Length
Solid wire	AWG24 to 16 Cross section: 0.2 to 1.5mm ²	9.5mm MIN
Stranded wire	AWG24 to 16 Cross section: 0.2 to 1.5mm ²	9.5mm MIN
Ferrule terminal With plastic sleeve	Cross section: 0.25mm ² 0.34mm ² 0.5mm ² 0.75mm ²	8mm 8 to 10mm 8 to 10mm 10mm
Ferrule terminal Without plastic sleeve 0.75mm ² 0.5mm ² 0.75mm ² 1.0mm ² 1.5mm ²		7mm 7mm 8 to 10mm 8 to 10mm 8 to 10mm 10mm

Recommended Ferrule Terminals

• With plastic sleeve

		Manufacturer				
		Phoenix Contact	Weidmuller	Wago		
Cross	0.25mm ²	Al 0.25-8	H0.25/12	FE-0.25-8N-YE		
section	0.34mm ²	AI 0.34-8 AI 0.34-10	H0.35/12	FE-0.3-8N-TQ		
	0.5mm ²	Al 0.5-8 Al 0.5-10	H0.5/14D	FE-0.5-8N-WH		
			H0.5/16D	FE-0.5-10N-WH		
	0.75mm ²	Al 0.75-10	H0.75/16D	FE-0.75-10N-GY		
Crimping	g tool	CRIMPFOX 6	PZ 6 ROTO	Vario crimp4*1		

Without plastic sleeve

	ŀ		Manufacture	ər		
		Phoenix Contact	Weidmuller	Wago		
Cross	0.25mm ²	A 0.25-7				
section	0.34mm ²	A 0.34-7				
	0.5mm ²	A 0.5-8 A 0.5-10	H0.5/14			
	0.75mm ²	A 0.75-8 A 0.75-10	H0.75/10			
	1.0mm ²	A 1-8 A 1-10	H1.0/10	FE-1.0-10		
	1.5mm ²	A 1.5-10	H1.5/10			
Crimping	g tool	CRIMPFOX 6	PZ 6 ROTO	Vario crimp4*1		

The crimping tool can only be used for 0.25 to 1.0mm² ferrule terminals. *1. The crimping height (H) of ferrule terminals is 1.5mm or less. *2. In addition, the width (H) of ferrule terminals is 2.5mm or less However, it is limited to crimping shapes obtained using applicable crimping tools.



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Precautions

Recommended Flat-Blade Screwdrivers

Use a flat-blade screwdriver to connect and remove wires.

Use the following flat-blade screwdrivers.

The following table shows manufacturers and models as of December 2020.

Model	Manufacturer
ESD 0.40 × 2.5	WERA
SZS 0.4 × 2.5	PHOENIX CONTACT
SZF 0-0.4 × 2.5*	
0.4 × 2.5 × 75 302	WIHA
AEF.2.5 × 75	FACOM
210-719	WAGO
SDI 0.4 × 2.5 × 75	WEIDMULLER
9900 (-2.5-75)	VESSEL

SZF 0-0.4×2.5 (Phoenix Contact) can be arranged from OMRON's special model (XW4Z-00B).

• Recommended Reflow Conditions

Peak temperature: 250°C

Preheating:

220°C or above 45 to 90 seconds 150°C to 180°C 60 to 120 seconds

The solderability is not guaranteed, as above conditions may change depending on type and amount of solder, and type of flux.

Please check each region's Terms & Conditions by region website.

OMRON Corporation Electronic and Mechanical Components Company

Regional Contact

Americas https://www.components.omron.com/ Asia-Pacific https://ecb.omron.com.sg/ Korea https://www.omron-ecb.co.kr/ Europe http://components.omron.eu/ China https://www.ecb.omron.com.cn/ Japan https://www.omron.co.jp/ecb/

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Omron:

XW4M-02D1-H1DA XW4M-02D1-H1DS XW4M-02D1-V1DA XW4M-02D1-V1DS XW4M-03D1-H1DS XW4M-03D1-V1DS XW4N-34D2-A XW4N-34D2-S XW4N-36D2-A XW4N-36D2-S XW4N-40D2-A XW4N-40D2-S XW4N-26D2-S XW4N-28D2-S XW4N-30D2-A XW4N-30D2-S XW4N-32D2-A XW4N-32D2-S XW4N-20D2-A XW4N-20D2-S XW4N-22D2-A XW4N-22D2-S XW4N-24D2-A XW4N-24D2-S XW4N-17D1-S XW4N-18D1-A XW4N-18D1-S XW4N-18D2-S XW4N-20D1-A XW4N-20D1-S XW4N-14D2-S XW4N-15D1-S XW4N-16D1-A XW4N-16D1-S XW4N-16D2-A XW4N-16D2-S XW4N-12D1-S XW4N-12D2-A XW4N-12D2-S XW4N-13D1-S XW4N-14D1-A XW4N-14D1-S XW4N-09D1-S XW4N-10D1-A XW4N-10D1-S XW4N-10D2-S XW4N-11D1-S XW4N-12D1-A XW4N-06D2-S XW4N-07D1-S XW4N-08D1-A XW4N-08D1-S XW4N-08D2-A XW4N-08D2-S XW4N-04D1-S XW4N-04D2-A XW4N-04D2-S XW4N-05D1-S XW4N-06D1-A XW4N-06D1-S XW4M-40D2-V1DA XW4M-40D2-V1DS XW4N-02D1-A XW4N-02D1-S XW4N-03D1-S XW4N-04D1-A XW4M-36D2-H1DA XW4M-36D2-H1DS XW4M-36D2-V1DA XW4M-36D2-V1DS XW4M-40D2-H1DA XW4M-40D2-H1DS XW4M-32D2-V1DA XW4M-32D2-V1DS XW4M-34D2-H1DA XW4M-34D2-H1DS XW4M-34D2-V1DA XW4M-34D2-V1DS XW4M-30D2-H1DA XW4M-30D2-H1DS XW4M-30D2-V1DA XW4M-30D2-V1DS XW4M-32D2-H1DA XW4M-32D2-H1DS XW4M-24D2-V1DA XW4M-24D2-V1DS XW4M-26D2-H1DS XW4M-26D2-V1DS XW4M-28D2-H1DS XW4M-28D2-V1DS XW4M-22D2-H1DA XW4M-22D2-H1DS XW4M-22D2-V1DA XW4M-22D2-V1DS XW4M-24D2-H1DA XW4M-24D2-H1DS XW4M-20D1-V1DA XW4M-20D1-V1DS XW4M-20D2-H1DA XW4M-20D2-H1DS