

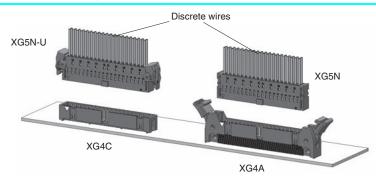
# Crimped MIL Connector Sockets for Discrete Wires XG5N/XG5N-U

## **Crimped Sockets for Discrete Wires Join the MIL Connector Series**

 XG5N-U Sockets with OMRON's unique lock enable onehand insertion with a secure lock.
 Save up to 24% of the space required for the XG4A.



## Conceptual Application Diagram



## Ratings and Characteristics

Rated current	3 A/contact (with AWG22 wire) 2 A/contact (with AWG24 wire) 1 A/contact (with AWG26 or AWG28 wire)	
Rated voltage	250 VAC	
Contact resistance	20 m $\Omega$ max. (at 20 mV, 100 mA max.)	
Insulation resistance	1,000 MΩ min. (at 500 V DC)	
Withstand voltage	500 VAC for 60 s (leakage current: 1 mA max.)	
Total insertion force	No. of contacts × 1.96 N max.	
Individual pull-out force	0.29 N min.	
Insertion durability	50 times	
Ambient operating temperature	–55 to 105°C (with no icing at low temperature)	

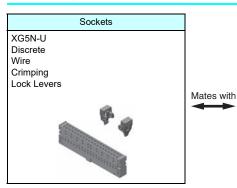
## Applicable Contacts and Wires

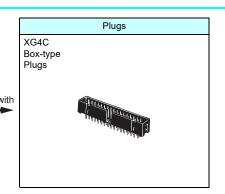
	Applicable wires		
Applicable	AWG No.	Conductor construction	
Contacts	(UL1007 twisted wires)	(elements/element diameter (mm))	
	22	17/0.16	
XG5W-0231	24	11/0.16	
	26	7/0.16	
	24	11/0.16	
XG5W-0232	26	7/0.16	
	28	7/0.127	

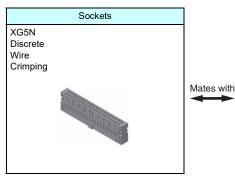
## ■ Materials and Finish

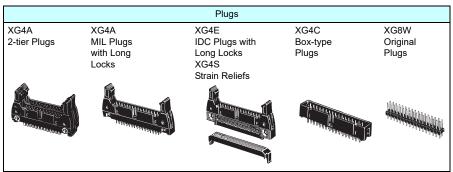
Housing		Fiber-glass reinforced PBT resin (UL94 V-0)/black	
Lock Levers		POM resin (UL94 HB)/black	
	Mating end	Phosphor bronze/nickel base, gold plated (0.15 μm)	
Contacts Crimped section		Phosphor bronze/nickel base, tin plated (2.0 μm)	

## Mating



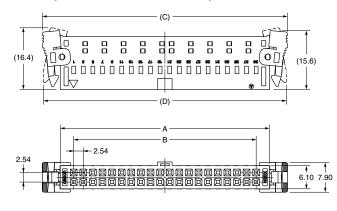






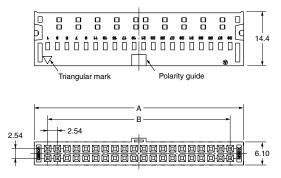
■ Dimensions (Unit: mm)

#### XG5N-U (with Lock Levers Attached)



Dimension (mm) No. of contacts	Α	В	С	D
10	17.26	10.16	26.80	26.20
14	22.34	15.24	31.88	31.28
16	24.88	17.78	34.42	33.82
20	29.96	22.86	39.50	38.90
26 30 34 40 50	37.58	30.48	47.12	46.52
	42.66	35.56	52.20	51.60
	47.74	40.64	57.28	56.68
	55.36	48.26	64.90	64.30
	68.06	60.96	77.60	77.00
60	80.76	73.66	90.30	89.70
64	85.84	78.74	95.38	94.78

#### XG5N



2 OMRON

## Ordering Information

Aŗ	opearance	Socket and Lock Set Note: The Locks and Sockets are provided separately.	Socket Housing	Lock Levers *1	Crimp Contacts, Type 1	Crimp Contacts, Type 2
	No. of					
No. of contacts	polarity guides	Model	Model	Model	Model	Model
10	0	XG5N-100-U	XG5N-100			XG5W-0232 (loose contacts) XG5W-0232-R *2 (reel contacts)
10	1	XG5N-101-U	XG5N-101			
14	1	XG5N-141-U	XG5N-141			
16	1	XG5N-161-U	XG5N-161		VO 5144 0004	
20	1	XG5N-201-U	XG5N-201		XG5W-0231 (loose contacts)	
26	1	XG5N-261-U	XG5N-261		(**************************************	
30	1	XG5N-301-U	XG5N-301			
34	1	XG5N-341-U	XG5N-341	XG5U-0001		
40	1	XG5N-401-U	XG5N-401			
50	1	XG5N-501-U	XG5N-501			
50	2	XG5N-502-U	XG5N-502			
60	1	XG5N-601-U	XG5N-601			
60	2	XG5N-602-U	XG5N602			
64	1	XG5N-641-U	XG5N-641			
04	2	XG5N-642-U	XG5N-642			

<sup>\*1.</sup> Each XG5N- Connector requires two Lock Levers.

Note: The pitch between the two polarity guides on Connectors with 50, 60, or 64 contacts is 22.86 mm.

## Specified Tools

#### ●Manual Crimping Tool XY2B-7007



Model	
XY2B-7007	

#### ● Contact Removal Tool XY2E-0003



Model
XY2E-0003

#### Automatic Applicator

Use an Applicator that is manufactured by Japan Automatic Machine Co., Ltd. Contact information is provided below. Japan:

Japan Automatic Machine Co., Ltd.

TEL 03-3756-1434

#### China:

Japan Automatic Machine Technology (Huizhou) Ltd. 6-1-B,Songshan Industrial Park, Huizhou Zhongkai Hi-Tech Industrial Development Zone, Huizhou,Guangdong,China TEL(86-752)2771-614 FAX(86-752)2771-619

#### South-eastern Asia:

Japan Automatic Machine Singapore Pte. Ltd. HB Centre 12 Tannery Road #04-02, Singapore 347722 TEL 65-6545-8140 FAX 65-6545-8141

#### USA, Europe:

Toyojamco, Ltd.

8370 Burnahm Road Suite 200 EL Paso, TX 79907 USA TEL (915)595-8825 FAX (915)595-8794

	Crimping Machine	Strip Crimper
Crimp Contacts, Type 1	Planned for the near future. *1	SCA-106700 *2
Crimp Contacts, Type 2		30A-100700 -

<sup>\*1.</sup> Inquire for details.

<sup>\*2.</sup> Order the required number of reels (10,000 contacts).

This model number is for standard specifications. Inquire for other specifications.

## Safety Precautions

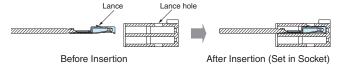
#### Crimping Method

Always use the specified Crimping Tool or Applicator to wire the crimped contacts.

Refer to the instruction sheet that is provided separately for details.

#### Contact Insertion Method

Confirm the orientation of the crimped contacts and then insert them all the way to the back of the Socket. After insertion, confirm that the lances are securely set in the lance holes on the socket housing.



#### **●**Contact Replacement Method

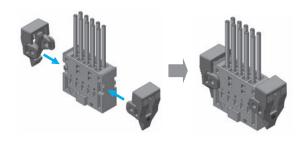
To remove contacts that have been incorrectly inserted, always use the XY2E-0003 Contact Removal Tool.

- (1) Insert the end of the Removal Tool into the lance hole in the socket housing and press the lance all the way inside the socket housing.
- (2) While pressing in on the lance, pull out the Contact.
- (3) Insert a new Contact.

Note: Do not use any Contacts that have been removed.

### Attaching the Lock Levers

Attach the holes in the Lock Levers to the protrusions on both sides of the housing and make sure that they are set securely.



#### Precautions for Correct Use

When mating the Sockets with XG4C Box Plugs, always use the XG5U-0001 Lock Levers. Otherwise the Connectors may become disconnected due to vibration or shock.

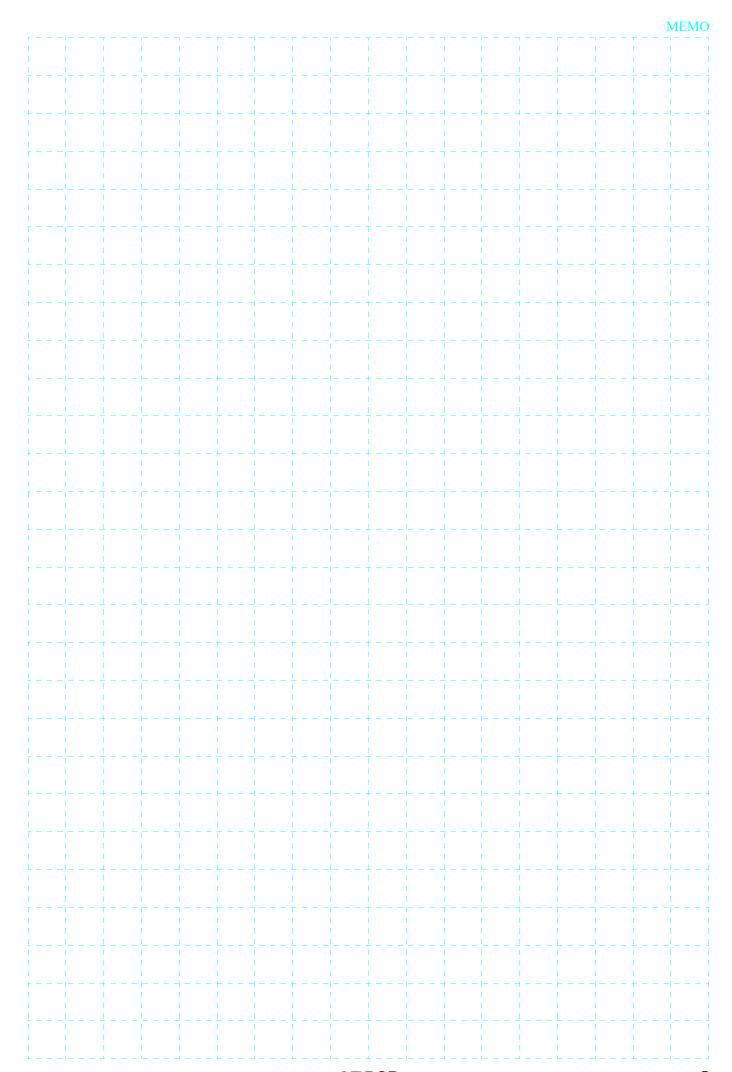
#### Storage

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

## Approval Standard

The approval rating values for overseas standards are different from the performance values determined individually. Confirm the values before use.

Model	Standard	File No.	Rating
XG5N-100-U	Non Approved Models		
XG5N-□□1-U	Non Approved Models		
XG5N-□□2-U	Non Approved Models		
XG5N-100	UL/C-UL certified product (Recognized)	E103202	200 VAC, 1 A
XG5N-□□1	UL/C-UL certified product (Recognized)	E103202	200 VAC, 1 A
XG5N-□□2	UL/C-UL certified product (Recognized)	E103202	200 VAC, 1 A
XG5U-0001	Non Approved Models		
XG5W-0231	Non Approved Models		
XG5W-0231-R	Non Approved Models		
XG5W-0232	Non Approved Models		
XG5W-0232-R	Non Approved Models		
XY2B-7007	Non Approved Models		
XY2E-0003	Non Approved Models		



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

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In the interest of product improvement, specifications are subject to change without notice.

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