

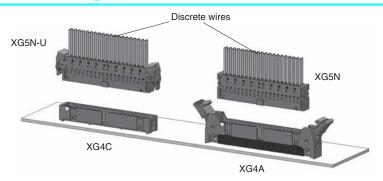
Crimped MIL Connector Sockets for Discrete Wires XG5N/XG5N-U

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 Ω 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)	

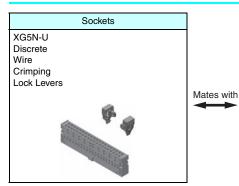
■ Materials and Finish

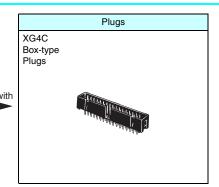
Housing		Fiber-glass reinforced PBT resin (UL94 V-2)/black	
Lock Levers		POM resin (UL94 HB)/black	
	Mating end	Phosphor bronze/nickel base, gold plated (0.15 μι	
Contacts	Crimped section	Phosphor bronze/nickel base, tin plated (2.0 μm)	

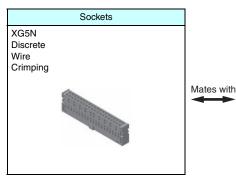
■ Applicable Contacts and Wires

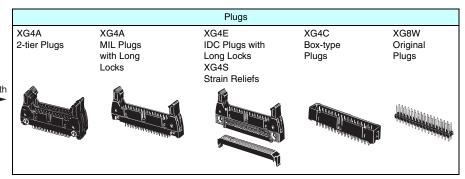
	Applicable wires		
Applicable	AWG No.	Conductor construction	
Contacts	(UL1007 twisted wires)	(elements/element diameter (mm))	
XG5W-0231	22	17/0.16	
	24	11/0.16	
	26	7/0.16	
	24	11/0.16	
XG5W-0232	26	7/0.16	
	28	7/0.127	

Mating



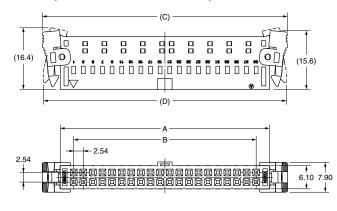






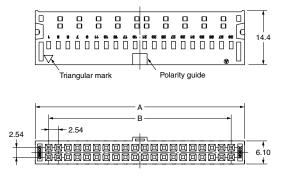
■ Dimensions (Unit: mm)

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	37.58	30.48	47.12	46.52
30	42.66	35.56	52.20	51.60
34	47.74	40.64	57.28	56.68
40	55.36	48.26	64.90	64.30
50	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

Αŗ	pearance	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 contacts	No. of polarity guides	Model	Model	Model	Model	Model
40	0	XG5N-100-U	XG5N-100			
10	1	XG5N-101-U	XG5N-101			
14	1	XG5N-141-U	XG5N-141			
16	1	XG5N-161-U	XG5N-161			
20	1	XG5N-201-U	XG5N-201		XG5W-0231 (loose contacts)	XG5W-0232 (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			XG5W-0232-R *2 (reel contacts)
50	2	XG5N-502-U	XG5N-502		XG5W-0231-R *2 (reel contacts)	
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			

^{*1.} 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	SCA-106700 *2	
Crimp Contacts, Type 2	future. *1	30A-100700 -	

3

^{*2.} Order the required number of reels (10,000 contacts).

^{*1.} Inquire for details.

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

■ Safety Precautions

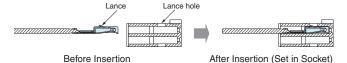
Crimping Method

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

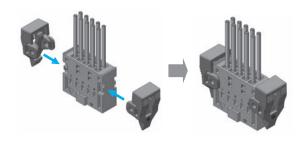
To remove contacts that have been incorrectly inserted, always use the XY2E-0003 Contact Removal Tool.

- (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.

Contact: www.omron.com/ecb

Note: Do not use this document to operate the Unit.

OMRON Corporation

Electronic and Mechanical Components Company

Cat. No. G023-E1-06 0816(0112) (O)

Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.

[•] Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.