# D-sub Connectors XM3-L/XM2-L/XM4K/XM4L

#### Cost-effective, PCB Mount D-Sub Connectors Provide Savings versus Original XM3 Connectors.

- Determine anchor screw diameters at a glance.
- Greatly simplified anchor combinations.
- Shielded against EMI.
- Conforms to UL standards. (No. E103202) (Except XM4Z models.)
- RoHS Compliant.



# **Connectors and Anchors**

#### Standard-density

	Model	XM3B-L	XM2C-L	XM2E-L	XM2F-L
	Туре	Sockets with Right-angle DIP Terminals	Plugs with Right-angle DIP Terminals	Plugs with Straight DIP Terminals	Sockets with Straight DIP Terminals
Appearance					Contraction of the second seco

#### **High-density**

	Model	XM4K XM4L		XM4Z	
	Туре	Plugs with Right-angle DIP Terminals	Sockets with Right-angle DIP Terminals	Sockets with Straight DIP Terminals	Anchor #2 or #3
Appearance					

### ■ Ratings and Characteristics

Rated current	3 A (at 20°C)
Rated voltage	300 VAC
Contact resistance	20 m $\Omega$ max. (at 20 mV, 100 mA max.)
Insulation resistance	1,000 M $\Omega$ min. (at 500 VDC for 1 minute)
Dielectric strength	1,000 VAC for 1 min. (leakage current: 1 mA max.)
Insertion Durability	100 times
Ambient operating temperature	-25°C to 105°C (with no icing at low temperature)

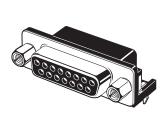
### ■ Materials and Finish

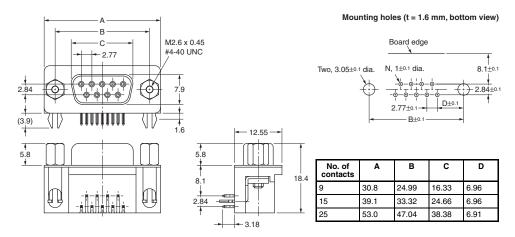
Housing		Fiber-glass reinforced PBT resin (UL94V-0)/black	
Socket Contac	t and terminal	Phosphor Bronze. Nickel base, flash gold plated	
Plug Contact and terminal		Brass. Nickel base, flash gold plated	
Shell		Steel. Nickel plated	
Anchors		Steel. Nickel plated	
Locking Pin Grounding Fixture	Straight	Brass. Nickel plated	
Fixture	Right-angle	Brass. Tin plated	

# XM3B Sockets with Right-angle DIP Terminals

### **Dimensions**

XM3B-0042-000L





#### **Ordering Information**

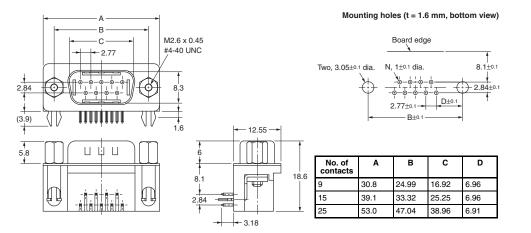
Accessories No. of contacts	No Anchors	Anchor 2 (XM4Z-0011) M2.6 x 0.45	Anchor 2 (XM4Z-0013) #4-40 UNC
9	XM3B-0942-502L	XM3B-0942-112L	XM3B-0942-132L
15	XM3B-1542-502L	XM3B-1542-112L	XM3B-1542-132L
25	XM3B-2542-502L	XM3B-2542-112L	XM3B-2542-132L

# XM2C Plugs with Right-angle DIP Terminals

#### **Dimensions**

XM2C-0042-000L



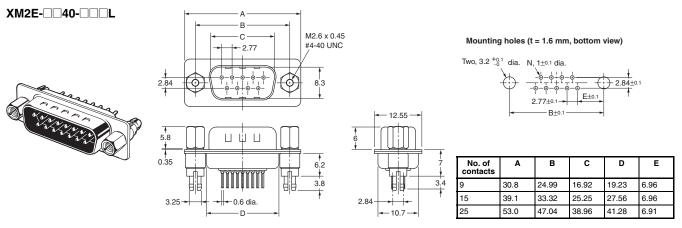


#### **Ordering Information**

Accessories No. of contacts	No Anchors	Anchor 2 (XM4Z-0011) M2.6 x 0.45	Anchor 2 (XM4Z-0013) #4-40 UNC
9	XM2C-0942-502L	XM2C-0942-112L	XM2C-0942-132L
15	XM2C-1542-502L	XM2C-1542-112L	XM2C-1542-132L
25	XM2C-2542-502L	XM2C-2542-112L	XM2C-2542-132L

# **XM2E Plugs with Straight DIP Terminals**

#### **Dimensions**



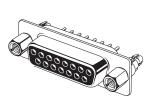
#### **Ordering Information**

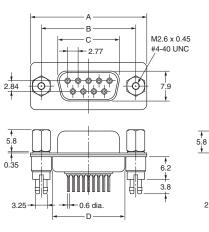
Accessories No. of contacts	No Anchors Without ground pins	No Anchors	Anchor 2 (XM4Z-1011) M2.6 x 0.45	Anchor 2 (XM4Z-1013) #4-40 UNC
9	XM2E-0940-L	XM2E-0940-502L	XM2E-0940-112L	XM2E-0940-132L
15	XM2E-1540-L	XM2E-1540-502L	XM2E-1540-112L	XM2E-1540-132L
25	XM2E-2540-L	XM2E-2540-502L	XM2E-2540-112L	XM2E-2540-132L

# **XM2F Sockets with Straight DIP Terminals**

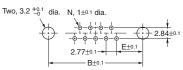
#### **Dimensions**

XM2F-0040-000L





Mounting holes (t = 1.6 mm, bottom view)



7	No. of contacts	Α	В	С	D	E
3.2	9	30.8	24.99	16.33	19.23	6.96
T	15	39.1	33.32	24.66	27.56	6.96
	25	53.0	47.04	38.38	41.28	6.91

### **Ordering Information**

Accessories No. of contacts	No Anchors Without ground pins	No Anchors	Anchor 2 (XM4Z-1011) M2.6 x 0.45	Anchor 2 (XM4Z-1013) #4-40 UNC
9	XM2F-0940-L	XM2F-0940-502L	XM2F-0940-112L	XM2F-0940-132L
15	XM2F-1540-L	XM2F-1540-502L	XM2F-1540-112L	XM2F-1540-132L
25	XM2F-2540-L	XM2F-2540-502L	XM2F-2540-112L	XM2F-2540-132L

2.84

12.55

-

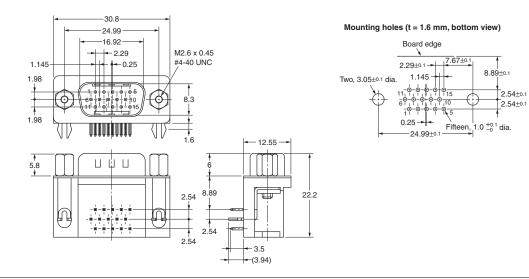
- 10.7 -

# XM4K High-density Plugs with Right-angle DIP Terminals

### **Dimensions**

XM4K-1542-





#### **Ordering Information**

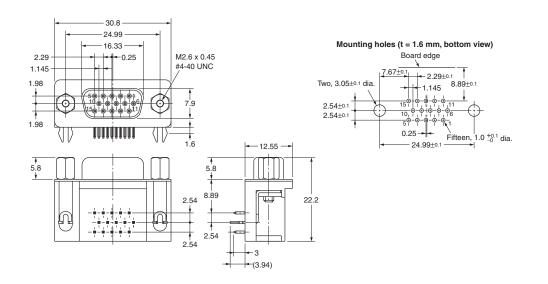
Accessories No. of contacts	No Anchors	Anchor 2 (XM4Z-0011) M2.6 x 0.45	Anchor 2 (XM4Z-0013) #4-40 UNC
15	XM4K-1542-502	XM4K-1542-112	XM4K-1542-132

# XM4L High-Density Sockets with Right-angle DIP Terminals

**Dimensions** 

XM4L-1542-





### **Ordering Information**

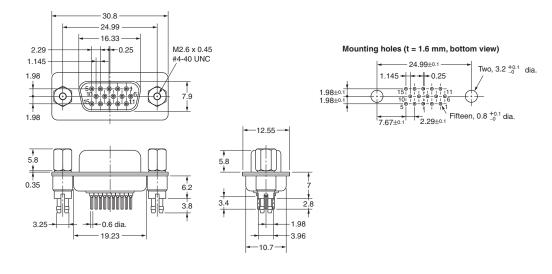
Accessories No. of contacts	No Anchors	Anchor 2 (XM4Z-0011) M2.6 x 0.45	Anchor 2 (XM4Z-0013) #4-40 UNC
15	XM4L-1542-502	XM4L-1542-112	XM4L-1542-132

# XM4L High-Density Sockets with Straight DIP Terminals

### Dimensions

XM4L-1542-



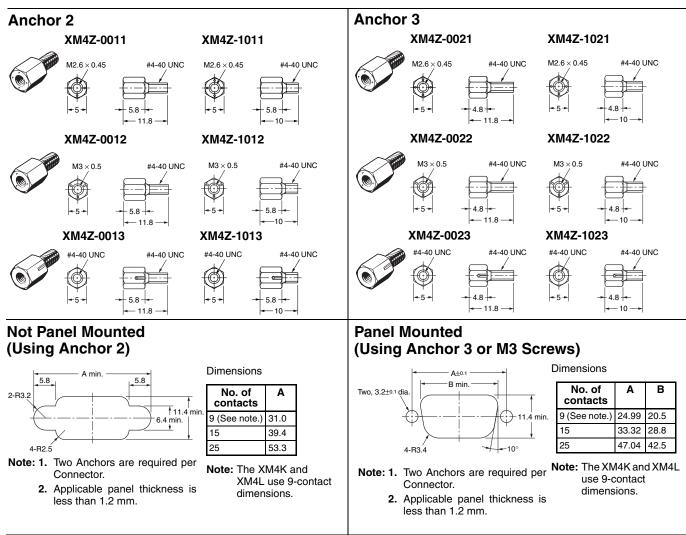


### **Ordering Information**

Accessories	No Anchors	Anchor 2 (XM4Z-1011)	Anchor 2 (XM4Z-1013)	
No. of contacts		M2.6 x 0.45	#4-40 UNC	
15	XM4L-1541-502	XM4L-1541-112	XM4L-1541-132	

# XM4Z - Anchors

#### **Dimensions**



Note: 2 anchors are necessary per connector.

#### **Ordering Information**

#### Anchor 2 (Screw Head Length: 5.8 mm)

Туре	For right-angle DIP terminals			For straight DIP terminals			
Appearance							
Lock screw	$M2.6 \times 0.45$	$M3 \times 0.5$	#4-40 UNC	$M2.6 \times 0.45$	$M3 \times 0.5$	#4-40 UNC	
Model	XM4Z-0011	XM4Z-0012	XM4Z-0013	XM4Z-1011	XM4Z-1012	XM4Z-1013	

#### Anchor 3 (Screw Head Length: 4.8 mm)

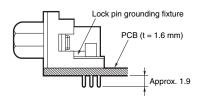
Туре	For	For right-angle DIP terminals			For straight DIP terminals			
Appearance								
Lock screw	$M2.6 \times 0.45$	M3×0.5	#4-40 UNC	$M2.6 \times 0.45$	M3 × 0.5	#4-40 UNC		
Model	XM4Z-0021	XM4Z-0022	XM4Z-0023	XM4Z-1021	XM4Z-1022	XM4Z-1023		

### Correct Use

#### Grounding (Lock Pin Grounding Fixture

To ground, provide copper foil around the Connector Attachment hole on the board, assemble the connector and grounding fixture, and dip in solder as shown below.

Insert the connector into the PCB and then simultaneously dip-solder the connector terminals and lock pin to the board.



#### Soldering - Automated Soldering Conditions (Jet Flow)

- 1. Soldering temperature: 250 ±5°C
- 2. Continuous soldering time: Within 5 s

#### **Tightening Torque of Anchor and Grounding Fixture**

If the anchor is secured to the connector, be sure to tighten it to a torque of 0.49  $\text{N}{\cdot}\text{m}{.}$ 

Also, use a proper size tool to do this work.

#### Combination of hexagonal anchors for each connector (in post installation)

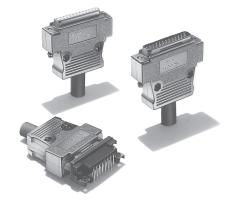
Туре	Model	Without panel insertion	With panel insertion	Commercially available nut
Dip L type socket	XM4L-1542-502	XM4Z-001	XM4Z-002	Not necessary
	XM3B-0042-502L			
Dip L type plug	XM4K-1542-502	XM4Z-001	XM4Z-002	Not necessary
	XM2C-0042-502L			
Dip straight socket	XM4L-1541-502	XM4Z-101	XM4Z-102□	Not necessary
	XM2F-□□40-L			Necessary
	XM2F-0040-502L			Not necessary
Dip straight plug	XM2E-□□40-L	XM4Z-101	XM4Z-102	Necessary
	XM2E-0040-502L			Not necessary

# D-sub Connectors XM3/XM2S

# The D-sub Connector are Ideal for Office Automation Interfacing

- Shielded against EMI.
- Multi-hole, ferrite-core Connectors (XM3B-F) offers space-saving design and superior noise protection at high frequency.
- Rugged, compact, metallized plastic hood (XM2S) provides excellent noise protection.
- Conforms to UL standards. (No. E103202) (XM2S hoods and other models not included.)
- Available with many kinds of standard Anchors and grounding fixtures.
- RoHS Compliant.

# **Connectors and Hoods**



Model	ХМЗВ	XM3B-F
Туре	Sockets with Right-angle DIP Terminals	Sockets with Right-angle DIP Terminals and ferrite core
Appearance		

Model	ХМЗС	ХМЗЕ	ХМЗА	XM3D
Туре	Plugs with Right-angle DIP Terminals	Sockets with Straight DIP Terminals	Plugs with Solder Cup Terminals	Sockets with Solder Cup Terminals
Appearance	Contraction of the			

Model		XM2S	XM2S-E	
Туре	Straight Cable Connection Metallized Plastic	Right Angle Ca Metallized Plastic for 9	able Connection and 25 terminal models	Straight Cable Connection, with ESD Production for 9 terminal models
Appearance				

### ■ Ratings and Characteristics

	XM3A, XM3B, XM3B-F, XM3C (except 37 terminal models), XM3D, XM3F	XM3C - 37 terminal models	XM2S, XM2S-E (Hoods)
Rated current	5 A	3 A	
Rated voltage	300 VAC		
Contact resistance	15 mΩ max. (at 20 mV, 100 mA max.)	)	7
Insulation resistance	1,000 MΩ min. (at 500 VDC)		7
Dielectric strength	1,000 VAC for 1 min. (leakage current	: 1 mA max.)	7 1
Total insertion force	Number of terminals x 3.33 N max.		7
Removal force	0.29 N min. (for gauge diameter of 0.9	99 mm)	
Insertion Durability	200 times		
Ambient operating temperature	–55°C to 105°C (with no icing)	–25°C to 85°C	
Shield performance	Mounted in panel: 25 dB min. (30 to 9 Mounted on board: 20 dB min. (30 to		

### Materials and Finish

#### Connectors

		ХМЗВ	XM3B-F	ХМЗС	XM3F	ХМЗА	XM3D
Housing		Fiber-glass reinforced PBT resin (UL94V-0)/black		Fiber-glass reinforced PBT resin (UL94V-0)/Milky white			
Contacts	Mating End	Phosphor Bronze / Nickel base, gold plated (0.4 $\mu m)$			Bronze / Nickel base, gold plated (0.4 μm)	Phosphor Bronze / Nickel base, gold plated (0.4 µm)	
	Terminals	Phosphor Bronze tin plated (2 μm)		Phosphor Bronze tin plated (3 µm)		Bronze / Nickel base, tin plated (3 µm)	Phosphor Bronze / Nickel base, tin plated (3 μm)
Shell		Steel. Nickel plated					

#### Hoods

	XN	XM2S		
	Straight Connecting Cable	Right-angle Connecting Cable	Straight Connecting Cable with ESD Protection	
Housing	ABS resin /	ABS resin / nickel plated		
Cable clamp		Steel / nickel plated		
Lock screw (Driver type)	Steel / nickel plated			
Lock screw (Jackscrew)	Brass / nickel plated (See note)	Brass / nickel plated	Fiber-glass reinforced polyamide (UL94V-0)/black	

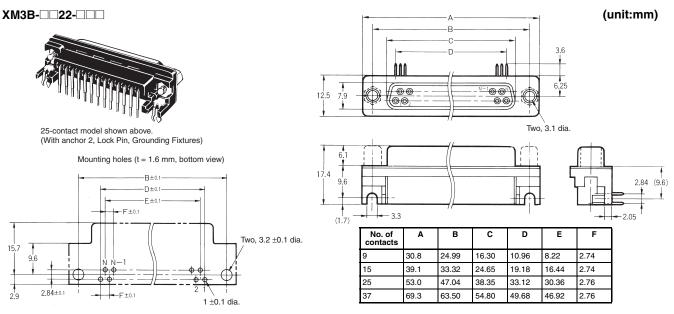
Note: Jackscrews (thumbscrews) for the straight, non-ESD version of the XM2S hood are sold separately. See "Accessories" section of this datasheet.

### ■ Applicable Wires

The applicable wires for solder cup terminals are AWG 22 to 28 (solid or stranded).

# XM3B Sockets with Right-angle DIP Terminals

#### **Dimensions**



Note: XM3B Sockets were manufactured in accordance with JIS X 5101. Terminal pitches are a mixed arrangement of 2.77 and 2.74 mm contacts on 25 and 37 contact models as specified in the JIS standard. A pitch of 2.76 mm is recommended for the mounting holes because of the more advanced numerical control available today. This is sufficient to avoid any problems.

### Ordering Information

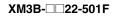
Appearance	Tap Hole Grounding Fixture	Anchor 2	Anchor 2 Lock Pin Grounding Fixture		
Accessories	XM2Z-0011 Anchor 2 (M2.6 × 0.45 metric screws)	XM2Z-0013 Anchor 2 (#4-40 UNC inch screws)	XM2Z-0011 Anchor 2 (M2.6 × 0.45 metric screws)	XM2Z-0013 Anchor 2 (#4-40 UNC inch screws)	
No. of contacts	XM2Z-0061 Tap Hole Grounding Fixtures		XM2Z-0062 Lock Pin Grounding Fixtures		
9	XM3B-0922-111	XM3B-0922-131	XM3B-0922-112	XM3B-0922-132	
15	XM3B-1522-111	XM3B-1522-131	XM3B-1522-112	XM3B-1522-132	
25	XM3B-2522-111	XM3B-2522-131	XM3B-2522-112	XM3B-2522-132	
37	XM3B-3722-111	XM3B-3722-131	XM3B-3722-112	XM3B-3722-132	

Appearance Accessories	cessories	Tap Hole Grounding Fixture	Lock Pin Grounding Fixture	
No. of contacts		XM2Z-0061 Tap Hole Grounding Fixtures	XM2Z-0062 Lock Pin Grounding Fixtures	
9	XM3B-0922	XM3B-0922-501	XM3B-0922-502	
15	XM3B-1522	XM3B-1522-501	XM3B-1522-502	
25	XM3B-2522	XM3B-2522-501	XM3B-2522-502	
37	XM3B-3722	XM3B-3722-501	XM3B-3722-502	

Note: 1. Use the XM3B-□□22 (No anchors or grounding fixtures) in combination with suitable Anchors and Grounding Fixtures.
2. Two M3 x 0.5 Tap Hole Grounding Fixtures and an M3 x 0.5 Lock Pin Grounding Fixture for the Anchor Side are provided.

## XM3B-F Sockets with Right-angle DIP Terminals and Ferrite Cores

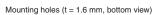
#### **Dimensions**

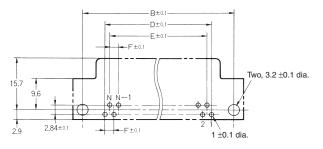




25-contact model shown above. (With Tap Hole Grounding Fixtures)

(unit:mm) R 3.6 D ŧ. hhh TAAAA 6.25 00 7,9 12.5 00 t Two, M3 18.3 9.6 2.84 2.05-Tap Hole Grounding Two, M3 Ferrite core Fixture





No. of contacts	Α	В	с	D	E	F	G
9	30.8	24.99	16.30	10.96	8.22	2.74	14.3
15	39.1	33.32	24.65	19.18	16.44	2.74	22.0
25	53.0	47.04	38.35	33.12	30.36	2.76	36.5
37	69.3	63.50	54.80	49.68	46.92	2.76	53.3

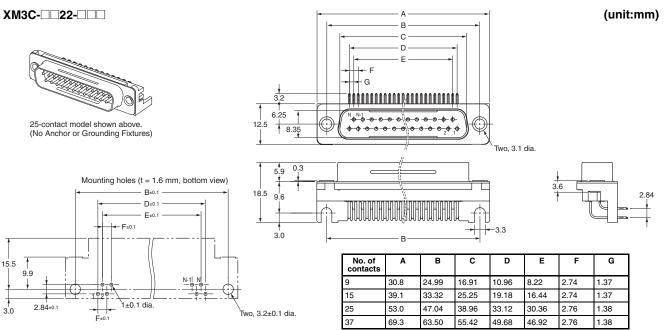
Note: XM3B Sockets were manufactured in accordance with JIS X 5101. Terminal pitches are a mixed arrangement of 2.77 and 2.74 mm contacts on 25 and 37 contact models as specified in the JIS standard. A pitch of 2.76 mm is recommended for the mounting holes because of the more advanced numerical control available today. This is sufficient to avoid any problems.

### **Ordering Information**

Appearance	Tap Hole Grounding Fixture	
Accessories No. of contacts	XM2Z-0061 Tap Hole Grounding Fixtures	
9	XM3B-0922-501F	
15	XM3B-1522-501F	
25	XM3B-2522-501F	
37	XM3B-3722-501F	

# XM3C Plugs with Right-angle DIP Terminals

### **Dimensions**



Note: XM3C Sockets were manufactured in accordance with JIS X 5101. Terminal pitches are a mixed arrangement of 2.77 and 2.74 mm contacts on 25 and 37 contact models as specified in the JIS standard. A pitch of 2.76 mm is recommended for the mounting holes because of the more advanced numerical control available today. This is sufficient to avoid any problems.

### Ordering Information

Appearance	Tap Hole Grounding Fixture Anchor 2	Lock Pin Grounding Fixture
Accessories	s XM2Z-0011 Anchor 2 (M2.6 × 0.45 metric screws)	
No. of contacts	Tap Hole Grounding Fixtures	Lock Pin Grounding Fixtures
9	XM3C-0922-111	XM3C-0922-112
15	XM3C-1522-111	XM3C-1522-112
25	XM3C-2522-111	XM3C-2522-112
37	XM3C-3722-111	XM3C-3722-112

Appearance		Tap Hole Grounding Fixture	Lock Pin Grounding Fixture
Accessories	No anchors		
No. of contacts		Tap Hole Grounding Fixtures	Lock Pin Grounding Fixtures
9	XM3C-0922	XM3C-0922-501	XM3C-0922-502
15	XM3C-1522	XM3C-1522-501	XM3C-1522-502
25	XM3C-2522	XM3C-2522-501	XM3C-2522-502
37	XM3C-3722	XM3C-3722-501	XM3C-3722-502

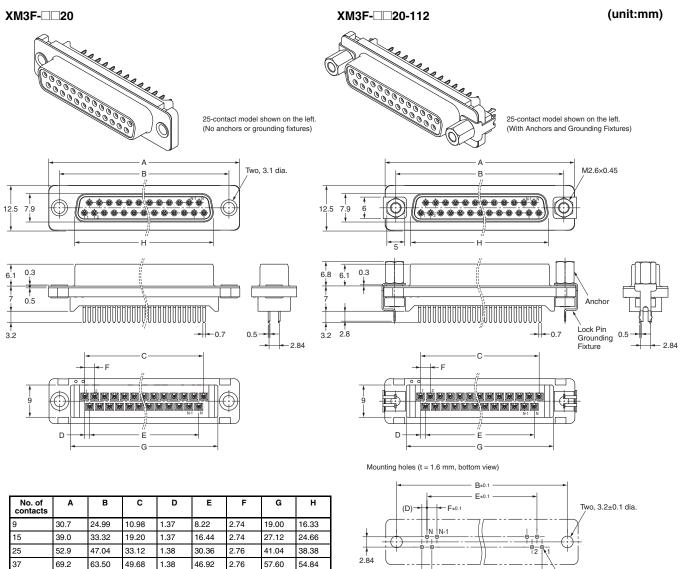
**Note: 1.** Use the XM3C-22 (No anchors or grounding fixtures) in combination with suitable Anchors and Grounding Fixtures.

2. Two M3 x 0.5 Tap Hole Grounding Fixtures and an M3 x 0.5 Lock Pin Grounding Fixture for the Anchor Side are provided.

**3.** XM3C- $\square$ 22- $\square$ 3 $\square$  versions with Inch Screws are also available.

# XM3F Sockets with Straight DIP Terminals

#### **Dimensions**



- F±0.1

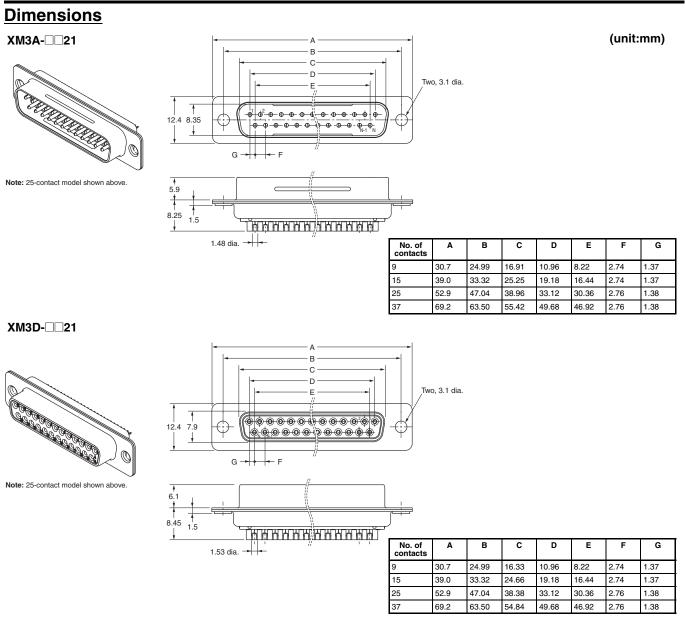
C±0.1

1±0.1 dia.

#### **Ordering Information**

Appearance		
No. of contacts	No anchors or Grounding Fixtures	Anchors and Lock Pin Grounding Fixtures
9	XM3F-0920	XM3F-0920-112
15	XM3F-1520	XM3F-1520-112
25	XM3F-2520	XM3F-2520-112
37	XM3F-3720	XM3F-3720-112

# XM3A Plugs with Solder-cup Terminals XM3D Sockets with Solder-cup Terminals

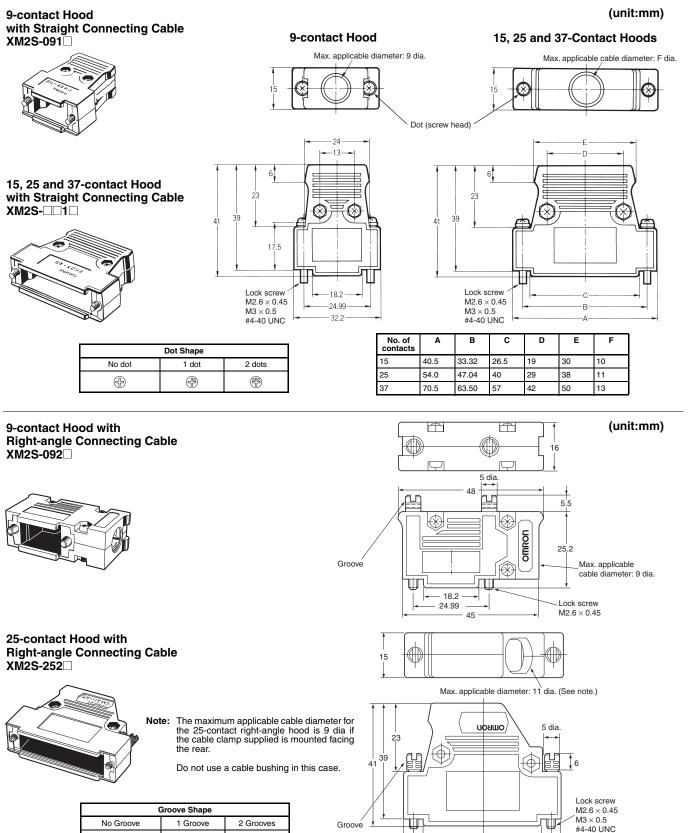


#### **Ordering Information**

	Plugs	Sockets
Appearance No. of contacts	Contraction of the second seco	Construction of the second sec
9	XM3A-0921	XM3D-0921
15	XM3A-1521	XM3D-1521
25	XM3A-2521	XM3D-2521
37	XM3A-3721	XM3D-3721

# XM2S / XM2S-E Straight and Right Angle Hoods

#### **Dimensions**



40

47.04

54

w

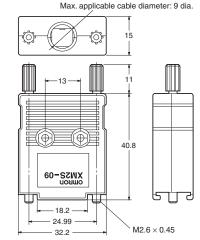
1

[KS

(unit:mm)

9-contact Hood with Straight Connecting Cable and ESD Protection XM2S-0911-E





Note: Jackscrews (thumbscrews) for the straight, non-ESD version of the XM2S hood are sold separately. See "Accessories" section of this datasheet.

#### Ordering Information Straight hoods

	Lock screw	M2.6 x 0.45 metric screws (No dot)	M3 x 0.5 metric screws (1 dot)	#4-40 UNC inch screws (2 dots)
Applicable	Anchor 1	XM2Z-0001	XM2Z-0002	XM2Z-0003
Anchors -	Anchor 2	XM2Z-0011	XM2Z-0012	XM2Z-0013
No. of contacts	Anchor 3	XM2Z-0021	XM2Z-0022	XM2Z-0023
9		XM2S-0911	XM2S-0912	XM2S-0913
15		XM2S-1511	XM2S-1512	XM2S-1513
25		XM2S-2511	XM2S-2512	XM2S-2513
37		XM2S-3711	XM2S-3712	XM2S-3713

\*Jackscrews(thumbscrews) for the straight hoods without ESD protection are sold separately. See XM2Z-007 (Anchor 5) in the Accessories section of this datasheet.

#### **Right-angle hoods**

	Lock screw	M2.6 x 0.45 metric screws (No groove)	M3 x 0.5 metric screws (1 groove)	#4-40 UNC inch screws (2 groove)
Applicable Anchors	Anchor 1 (See Note 3)	XM2Z-0001	XM2Z-0002	XM2Z-0003
	Anchor 2	XM2Z-0011	XM2Z-0012	XM2Z-0013
No. of contacts	Anchor 3	XM2Z-0021	XM2Z-0022	XM2Z-0023
9		XM2S-0921	XM2S-0922	XM2S-0923
25		XM2S-2521	XM2S-2522	XM2S-2523

\*Jackscrews (thumbscrews) for the right-angle hoods are standard, supplied with the hoods.

#### Straight hood with ESD Protection

	Lock screw	M2.6 x 0.45 metric screws (No groove)
Applicable	Anchor 1	XM2Z-0001
Anchors	Anchor 2	XM2Z-0011
No. of contacts	Anchor 3	XM2Z-0021
9		XM2S-0911-E

\*Overmolded Jackscrews (thumbscrews) for the straight hoods with ESD protection are standard, supplied with the hoods.

Note: 1. The cable bushing, cable clamp, shielded tape and assorted screws are supplied with all hoods

Lock screws are attached to the Hood. Select D-sub Connectors with Anchors or Grounding Fixtures that fit the lock screw of the hood.
 Anchor 1 cannot be used with the 9 Contact Right-angle Hoods.

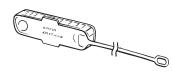
D-sub Connectors XM3/XM2S

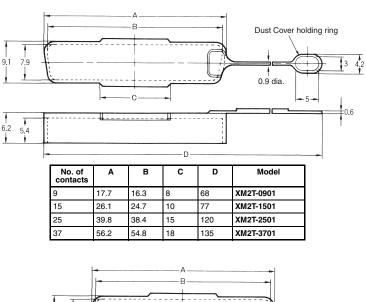
# Accessories for XM3 (Sold Separately)

### ■ XM2T Dust Covers for Sockets

#### With Retaining Ring



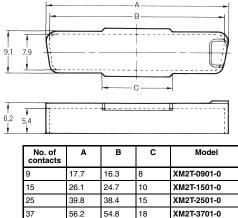




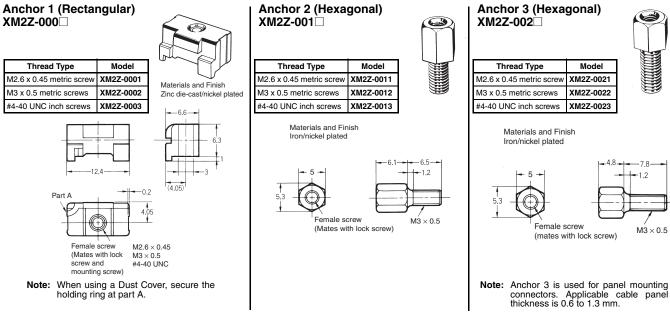
# Without Retaining Ring XM2T-01-0



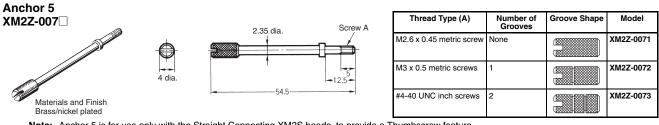
XM2T Rating and Material			
Operating Temperature –25°C to 85°C			
Material	Polyamide resin		



### ■ XM2Z Anchors

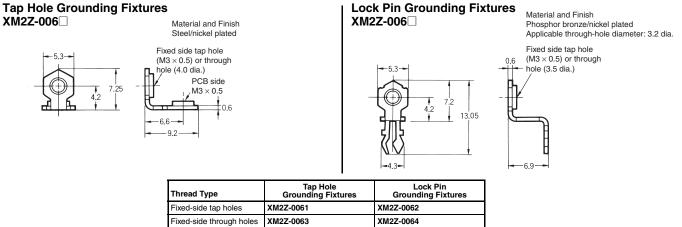


Note: 2 anchors are necessary per connector. Anchors are not packaged in pairs.



Note: Anchor 5 is for use only with the Straight Connecting XM2S hoods, to provide a Thumbscrew feature. 2 anchors are necessary per connector. Anchors are not packaged in pairs.

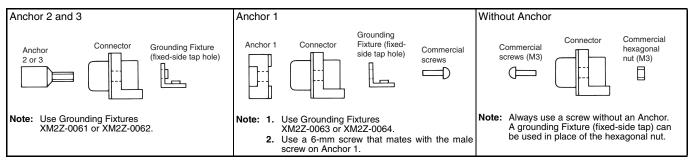
## XM2Z Grounding Fixtures for XM3B



Note: 2 Grounding Fixtures are necessary per connector. Grounding Fixtures are not packaged in pairs.

# **Assembly Information**

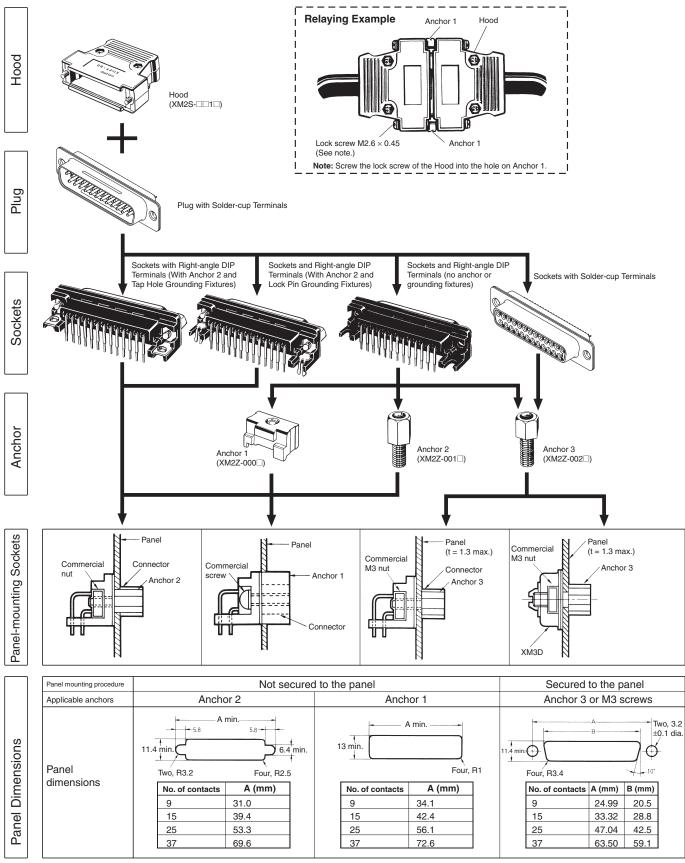
### Anchors and Grounding Fixtures



### Combination of Hexagonal Anchors for each connector (in post installation)

Туре	Model	Without Panel Insertion	With Panel Insertion	Commercially available nut
DIP L type socket	XM3B-022	XM2Z-001	XM2Z-002	Necessary
	XM3B-022-501			Not Necessary
	XM3B-022-502			
DIP L type plug	XM3C-□□22	XM2Z-001	XM2Z-002	Necessary
	XM3C-022-501			Not Necessary
	XM3C-022-502			
DIP straight socket	XM3F-DD20	XM2Z-001	XM2Z-002	Necessary

### ■ Combination Examples



Note: 1. 2 Anchors are required per connector. Anchors are not packaged in pairs

2. Applicable panel thickness is 1.3 mm max.

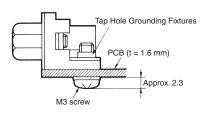
### Correct Use

#### Grounding

To ground, create copper foil around the connector attachment hole on the board, assemble the connector and grounding fixture, and dip in solder as shown below.

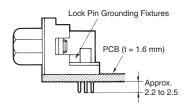
#### **Tap Hole Grounding Fixtures**

Insert the connector into the PCB, tighten the screws, and then dip-solder the connector terminals to the board.



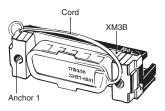
#### Lock Pin Grounding Fixtures

Insert the connector into the PCB and then simultaneously dip-solder the connector terminals and lock pin to the board.

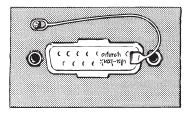


#### Attaching the Dust Cover

To attach the cord to the connector, use Anchor 1 and secure it as shown below.



To attach the cord to a panel, drill an M3 hole in the panel and secure the cord to it with an M3 screw. If the cord is not required, cut it off. Use a commercially available M3 screw.



#### **Tightening Clamp Screws**

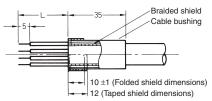
Use the following torques when tightening cable clamp to hood. Terminal Screw Tightening Torque (N·m)

9	15	25	37
Contacts	Contacts	Contacts	Contacts
0.25	0.44	0.	49

#### **Shielded Cable Preparation**

Refer to the following diagram when soldering shielded cable to the connector when using a hood.  $% \label{eq:constraint}$ 

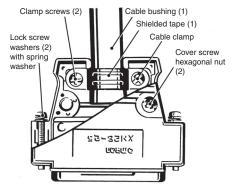
No. of Contacts	L (mm)
9	25
15	35
25	40
37	45



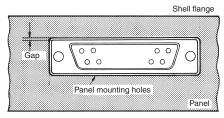
- 1. Fold the unravelled braided shield back over the cable bushing
- 2. Wrap tape around the folded shield.

#### Shield Effects

When connecting the braided cable shield to a connector hood, use the cable clamp to clamp all the braids at once through the shielded tape. Mate the lock screw washer and spring washer outside the connector when assembling the hood.



Keep the shell flange of the connector as far away from the metal panel as possible to maximize the shield effect with a connector mounted to a panel. The ground wire for the connector will fall into the shell (external metal covering) with solder-cup terminals, so connect the ground wire to the panel or to ground on the board.



#### XM3A/XM3D Connector Insertion and Removal

Grasp the connector or the hood cover when inserting and removing the connector. Never try to remove the connector by pulling the cable.

#### Soldering - Automated Soldering Conditions. (Jet Flow) (XM3B, XM3C and XM3F)

- **1.** Soldering temperature:  $250 \pm 5^{\circ}C$
- 2. Continuous soldering time: Within 5 s

All sales are subject to Omron Electronic Components LLC standard terms and conditions of sale, which can be found at http://www.components.omron.com/components/web/webfiles.nsf/sales\_terms.html

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.



55 E. Commerce Drive, Suite B Schaumburg, IL 60173

#### **OMRON ON-LINE**

Global - http://www.omron.com USA - http://www.components.omron.com

#### 847-882-2288

Cat. No. G057-E-1a

01/13

Specifications subject to change without notice

Printed in USA