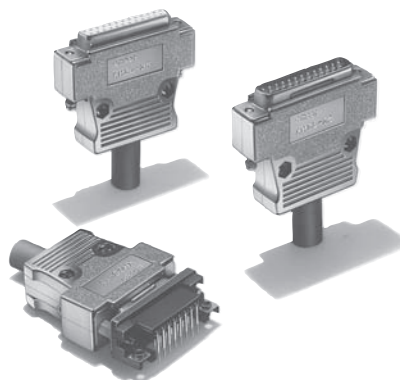


D-sub Connectors Are Ideal for Office Automation Interfacing.

- Fitted in a rugged, compact metal shell.
- Many kinds of standard Anchors and grounding fixtures available.
- See the "Standards certification / conformity list" for information on conformity to certification standards.



RoHS Compliant

Terminology

● Shielded connector

Connector having a structure that can be grounded.

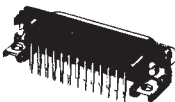
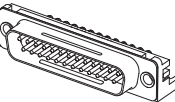
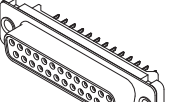
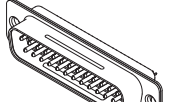
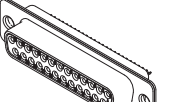
● Beating

A processing technique that ensures the contact amongst the shells by beating a part of the shell.

● Shell

Refers to the case covering the connector. Here, the shell refers to the metal parts attached to the mating end.

Connectors

Model	XM3B			
Appearance	 <p>Sockets with right-angle DIP terminals</p>			
Reference page	3 to 4			
Model	XM3C	XM3F	XM3A	XM3D
Appearance	 <p>Plugs with right-angle DIP terminals</p>	 <p>Sockets with straight DIP terminals</p>	 <p>Plugs with solder-cup terminals</p>	 <p>Sockets with solder-cup terminals</p>
Reference page	6 to 7	8	9	

■ Ratings and Characteristics

Item	Model	XM3A XM3B XM3B-F All XM3C models except for those with 37 pins XM3D XM3F	XM3C models with 37 pins
Rated current	5 A	3 A	
Rated voltage	300 VAC		
Contact resistance	15 mΩ max. (at 20 mVDC, 100 mA max.)		
Insulation resistance	1,000 MΩ min. (at 500 V DC)		
Dielectric strength	1,000 VAC for 1 min (leakage current: 1 mA max.)		
Insertion durability	200 times		
Ambient operating temperature	–55 to 105°C (with no condensation or icing)		

■ Materials and Finish

Item		Model	XM3B	XM3B-F	XM3C	XM3F	XM3A	XM3D
Housing			PBT (UL94 V-0)/black				PBT (UL94 V-0)/Milky white	
Contacts	Mating end	Phosphor bronze/nickel base, gold plated				Bronze/nickel base, gold plated		Phosphor bronze/nickel base, gold plated
	Terminals	Phosphor bronze/nickel base, tin plated		Phosphor bronze/nickel base, tin plated		Bronze/nickel base, tin plated		Phosphor bronze/nickel base, tin plated
Shell			Steel/nickel plated					

■ Applicable Wires

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

XM3B Sockets with Right-angle DIP Terminals

■ Model Number Legend

XM3B- 22-

1 2 3 4

- 1. Number of contacts**

09: 9 contacts
15: 15 contacts
25: 25 contacts
37: 37 contacts

2. Anchor specifications

1: With Anchor 2
5: No anchors

3. Anchor screw specifications

1: M2.6 × 0.45 metric screws
3: #4-40 UNC inch screws
0: No anchors

4. Grounding Fixture

1: Tap Hole Grounding Fixture
2: Lock Pin Grounding Fixture

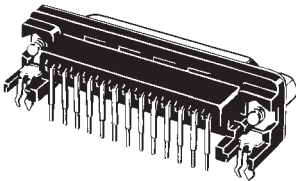
Note: Anchors and Grounding Fixtures are not supplied if 2, 3, and 4 are blank.

■ Dimensions

(unit: mm)

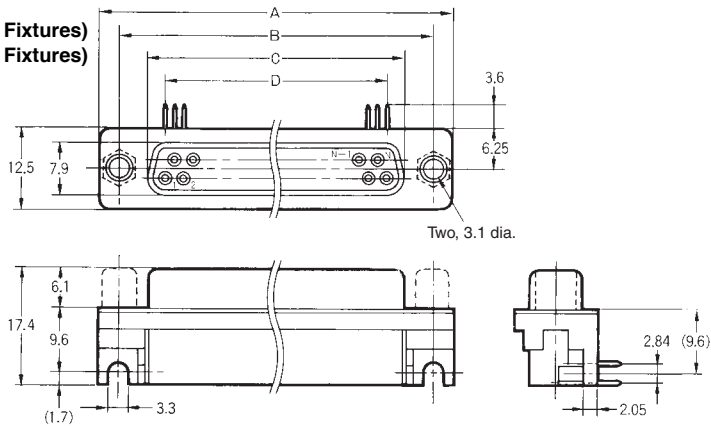
- XM3B- 22 (No anchors, no grounding fixtures)
XM3B- 22-501 (No anchors, Tap Hole Grounding Fixtures)
XM3B- 22-111 (With Anchor 2 (See note 1.), Tap Hole Grounding Fixtures)
XM3B- 22-131 (With Anchor 2 (See note 2.), Tap Hole Grounding Fixtures)
XM3B- 22-502 (No anchors, Lock Pin Grounding Fixtures)
XM3B- 22-112 (With Anchor 2 (See note 1.), Lock Pin Grounding Fixtures)
XM3B- 22-132 (With Anchor 2 (See note 2.), Lock Pin Grounding Fixtures)

- Note:** 1. Metric screws (M2.6 × 0.45)
2. Inch screws (#4-40 UNC)

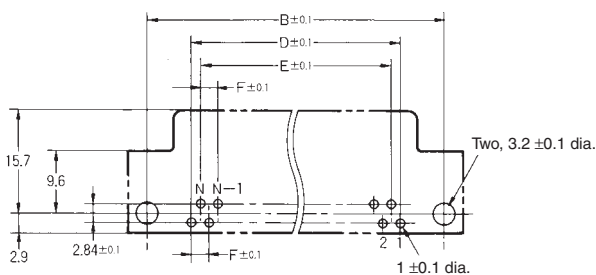


25-contact model shown above.
(With anchor 2, Lock Pin, Grounding Fixtures)

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.



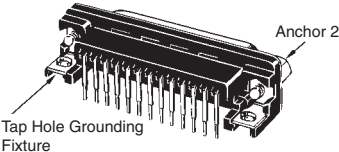
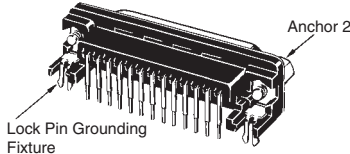
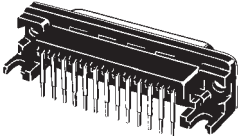
Mounting holes (t = 1.6 mm, bottom view)


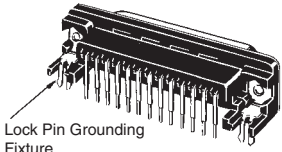


Dimensions

No. of contacts	Dimensions (mm)					
	A	B	C	D	E	F
9	30.8	24.99	16.30	10.96	8.22	2.74
15	39.1	33.32	24.65	19.18	16.44	2.74
25	53.0	47.04	38.35	33.12	30.36	2.76
37	69.3	63.50	54.80	49.68	46.92	2.76

■ Ordering Information

	Anchor 2 and Tap Hole Grounding Fixtures	Anchor 2 and Lock Pin Grounding Fixtures	No anchors or grounding fixtures (See note 1.)
Appearance			
Accessories	XM2Z-0011 Anchor 2 (M2.6 × 0.45 metric screws)		----
No. of contacts	XM2Z-0061 Tap Hole Grounding Fixtures	XM2Z-0062 Lock Pin Grounding Fixtures	----
9	XM3B-0922-111	XM3B-0922-112	XM3B-0922
15	XM3B-1522-111	XM3B-1522-112	XM3B-1522
25	XM3B-2522-111	XM3B-2522-112	XM3B-2522
37	XM3B-3722-111	XM3B-3722-112	XM3B-3722
Accessories	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-0922-131	XM3B-0922-132	
15	XM3B-1522-131	XM3B-1522-132	
25	XM3B-2522-131	XM3B-2522-132	
37	XM3B-3722-131	XM3B-3722-132	

	No anchors, with Tap Hole Grounding Fixtures	No anchors, with Lock Pin Grounding Fixtures
Appearance		
Accessories	No anchors	
No. of contacts	XM2Z-0061 Tap Hole Grounding Fixtures	XM2Z-0062 Lock Pin Grounding Fixtures
9	XM3B-0922-501	XM3B-0922-502
15	XM3B-1522-501	XM3B-1522-502
25	XM3B-2522-501	XM3B-2522-502
37	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 × 0.5 Tap Hole Grounding Fixtures and an M3 × 0.5 Lock Pin Grounding Fixture for the Anchor side are provided.
3. For other models with Anchors or Grounding Fixtures, contact your OMRON representative. For accessories, refer to *Accessories (Sold Separately)* in the XM2/XM3 datasheet.

XM3C Plugs with Right-angle DIP Terminals

■ Model Number Legend

XM3C- 22-
 1 2 3 4

1. Number of contacts

09: 9 contacts
15: 15 contacts
25: 25 contacts
37: 37 contacts

2. Anchor specifications

1: With Anchor 2
5: No anchors

3. Anchor screw specifications

1: M2.6 × 0.45 metric screws
3: Inch screws
0: No anchors

4. Grounding Fixture

1: Tap Hole Grounding Fixture
2: Lock Pin Grounding Fixture

Note: Anchors and Grounding Fixtures are not supplied if 2, 3, and 4 are blank.

■ Dimensions

(unit: mm)

DIP Terminals

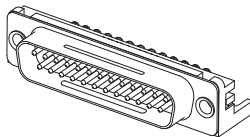
XM3C- 22 (No Anchors or Grounding Fixtures)

XM3C- 22-501 (No Anchors, with Tap Hole Grounding Fixtures)

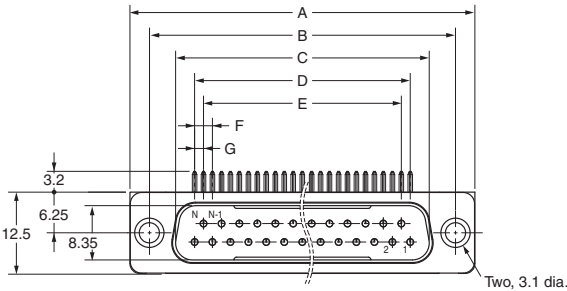
XM3C- 22-502 (No Anchors, with Lock Pin Grounding Fixtures)

XM3C- 22-111 (With Anchor 2 and Tap Hole Grounding Fixtures)

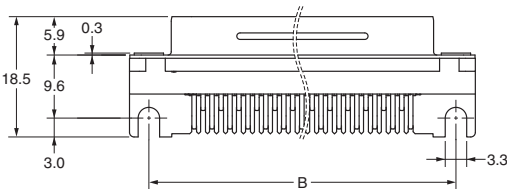
XM3C- 22-112 (With Anchor 2 and Lock Pin Grounding Fixtures)



25-contact model shown above.
(No Anchor or Grounding Fixtures)

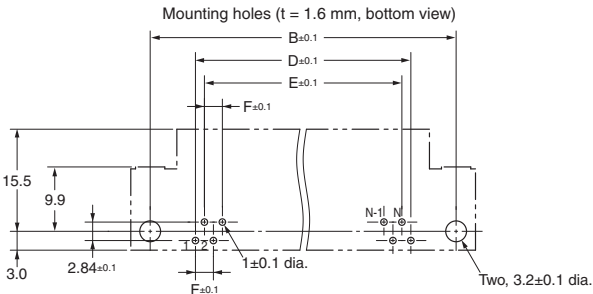


Note: XM3C Terminals were manufactured in accordance with JIS X 5101. Terminal pitches are a mixed arrangement of 2.77- and 2.74-mm contacts on 25- and 37-contact models as specified in the JIS standard. A pitch of 2.76 mm is recommended for the mounting holes because of the more advanced numerical control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

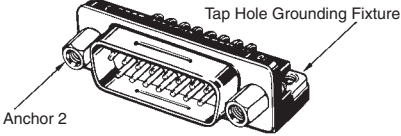
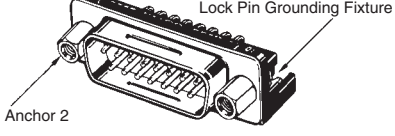
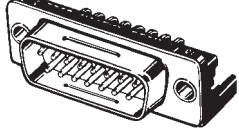


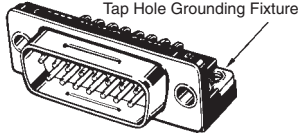
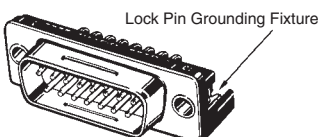
Dimensions

No. of contacts	A	B	C	D	E	F	G
9	30.8	24.99	16.91	10.96	8.22	2.74	1.37
15	39.1	33.32	25.25	19.18	16.44	2.74	1.37
25	53.0	47.04	38.96	33.12	30.36	2.76	1.38
37	69.3	63.50	55.42	49.68	46.92	2.76	1.38



■ Ordering Information

	Anchor 2 and Tap Hole Grounding Fixtures	Anchor 2 and Lock Pin Grounding Fixtures	No anchors or Grounding Fixtures
Appearance			
Accessories	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	XM3C-0922
15	XM3C-1522-111	XM3C-1522-112	XM3C-1522
25	XM3C-2522-111	XM3C-2522-112	XM3C-2522
37	XM3C-3722-111	XM3C-3722-112	XM3C-3722

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

Note: The XM3C-□□22-111/-112 with Anchor 2 (M2.6 × 0.45) and Grounding Fixtures as well as the XM3C-□□22-501/-502 with Grounding Fixtures and no Anchor are available as standard models. Two M3 × 0.5 Tap Hole Grounding Fixtures and an M3 × 0.5 Lock Pin Grounding Fixture for the Anchor side are provided.
Contact your OMRON representative for other anchor and grounding fixture specifications. See Accessories (Sold Separately) of XM2/ XM3 for details on accessories.
Tap Hole Grounding Fixtures and Lock Pin Grounding Fixtures are not sold separately.

XM3F Sockets with Straight DIP Terminals

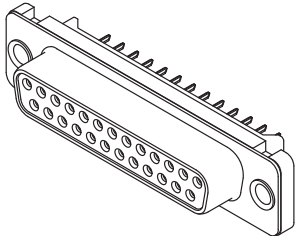
■ Dimensions

(unit: mm)

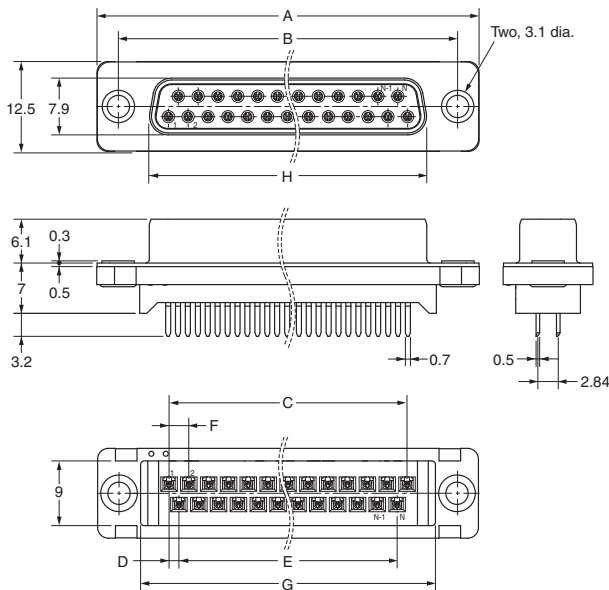
Straight DIP Terminals

XM3F-□□20

(No Anchor or Grounding Fixtures)

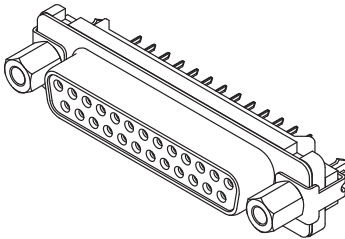


25-contact model shown on the left.
(No anchors or grounding fixtures)

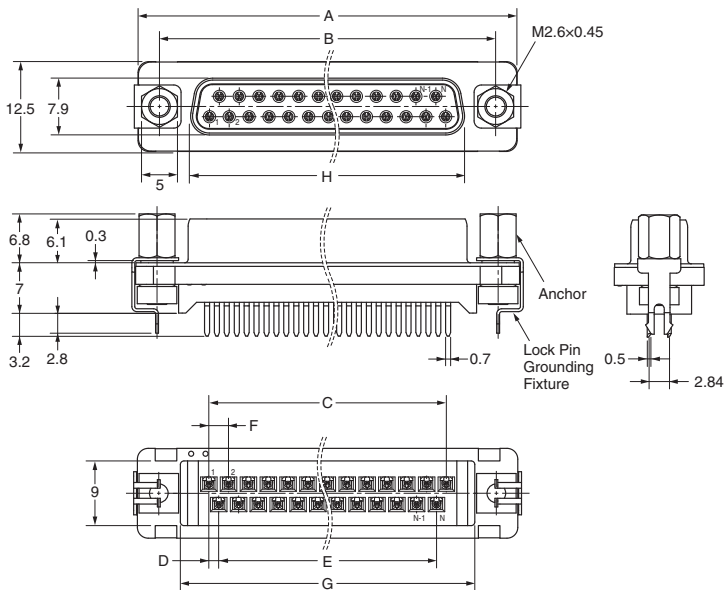


XM3F-□□20-112

(With Anchor and Lock Pin Grounding Fixtures)



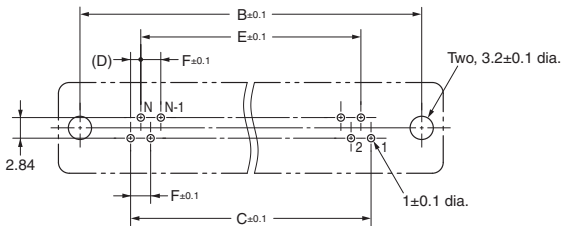
25-contact model shown on the left.
(With Anchors and Grounding Fixtures)



Dimensions

No. of contacts	A	B	C	D	E	F	G	H
9	30.7	24.99	10.98	1.37	8.22	2.74	19.00	16.33
15	39.0	33.32	19.20	1.37	16.44	2.74	27.12	24.66
25	52.9	47.04	33.12	1.38	30.36	2.76	41.04	38.38
37	69.2	63.50	49.68	1.38	46.92	2.76	57.60	54.84

Mounting holes (t = 1.6 mm, bottom view)



■ Ordering Information

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

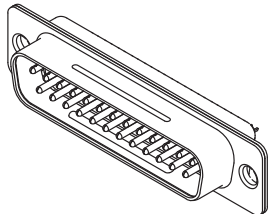
XM3A Plugs with Solder-cup Terminals

XM3D Sockets with Solder-cup Terminals

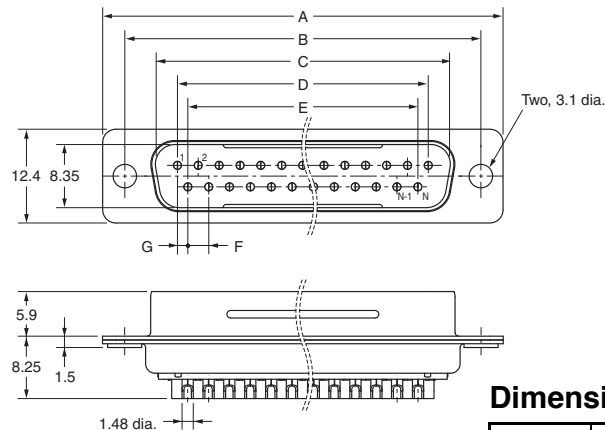
■ Dimensions

(unit: mm)

XM3A-□□21 Plugs/Solder-cup Terminals



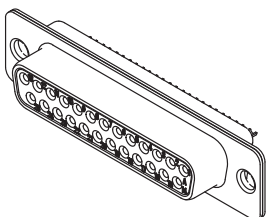
Note: 25-contact model shown above.



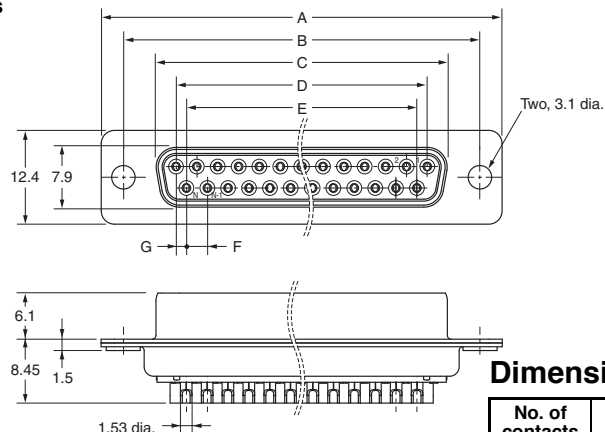
Dimensions (XM3A)

No. of contacts	A	B	C	D	E	F	G
9	30.7	24.99	16.91	10.96	8.22	2.74	1.37
15	39.0	33.32	25.25	19.18	16.44	2.74	1.37
25	52.9	47.04	38.96	33.12	30.36	2.76	1.38
37	69.2	63.50	55.42	49.68	46.92	2.76	1.38

XM3D-□□21 Sockets, Solder-cup Terminals



Note: 25-contact model shown above.



Dimensions (XM3D)

No. of contacts	A	B	C	D	E	F	G
9	30.7	24.99	16.33	10.96	8.22	2.74	1.37
15	39.0	33.32	24.66	19.18	16.44	2.74	1.37
25	52.9	47.04	38.38	33.12	30.36	2.76	1.38
37	69.2	63.50	54.84	49.68	46.92	2.76	1.38

■ Ordering Information

Appearance	Plugs	Sockets
No. of contacts		
9	XM3A-0921	XM3D-0921
15	XM3A-1521	XM3D-1521
25	XM3A-2521	XM3D-2521
37	XM3A-3721	XM3D-3721

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/>