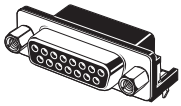
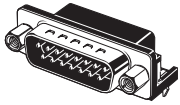
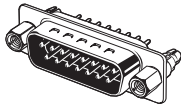
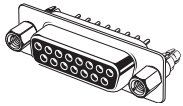
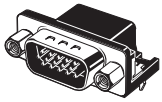
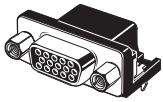
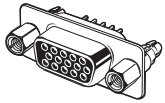
The D-sub Connector Series Enters a New Era with Lead-free Products.

- Determine anchor screw diameters at a glance.
- Greatly simplified anchor combinations.
- Shielded against EMI.
- EMI/RFI shielded hoods available.

■ Connectors

Classification	D-sub Connectors			
Model	XM3B-L	XM2C-L	XM2E-L	XM2F-L
Type	Sockets with Right-angle DIP Terminals	Plugs with Right-angle DIP Terminals	Plugs with Straight DIP Terminals	Sockets with Straight DIP Terminals
Appearance				

Classification	High-density D-sub Connectors			Anchors
Model	XM4K	XM4L	XM4L	XM4Z
Type	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℃)
Rated voltage	300 VAC
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC for 1 min)
Withstand voltage	1,000 VAC for 1 min (leakage current: 1 mA max.)
Insertion durability	100 times
Operating temperature	- 25 to 105℃ (with no icing at low temperature)

■ Materials

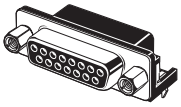
Housing	Fiber-glass reinforced PBT resin (UL94V-0)/black
Socket contact	Phosphor bronze
Plug contact	Brass
Shell	Steel
Anchors	Brass
Lock Pin Grounding Fixture	Brass

■ Finish

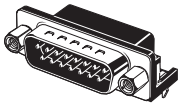
Contact	Mating end	Nickel base, flash gold plated
	Terminal	Nickel base, flash gold plated
Shell		Nickel plated
Anchors		Nickel plated
Grounding Fixture	Straight	Nickel plated
	Right angle	Tin plated

■ Ordering Information

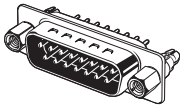
D-sub Sockets with Right-angle DIP Terminals

Appearance			
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

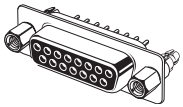
D-sub Plugs with Right-angle DIP Terminals

Appearance			
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

D-sub Plugs with Straight DIP Terminals

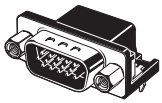
Appearance				
Accessories / No. of contacts	**Without ground pins**	**No anchors**	**Anchor 2 (XM4Z-1011) M2.6 x 0.45**	**Anchor 2 (XM4Z-1013) #4-40 UNC**
9	XM2E-0940-L	XM2E-0940-502L	XM2E-0940-112L	XM2E-0940-132L
15	XM2E-1540-L	XM2E-1540-502L	XM2E-1540-112L	XM2E-1540-132L
25	XM2E-2540-L	XM2E-2540-502L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

D-sub Plugs with Straight DIP Terminals

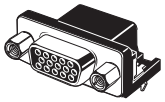
Appearance				
Accessories / No. of contacts	**Without ground pins**	**No anchors**	**Anchor 2 (XM4Z-1011) M2.6 x 0.45**	**Anchor 2 (XM4Z-1013) #4-40 UNC**
9	XM2E-0940-L	XM2E-0940-502L	XM2E-0940-112L	XM2E-0940-132L
15	XM2E-1540-L	XM2E-1540-502L	XM2E-1540-112L	XM2E-1540-132L
25	XM2E-2540-L	XM2E-2540-502L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

Note: For other models with Anchors, contact your OMRON representative.

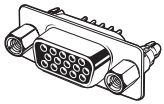
High-density D-sub Plugs with Right-angle DIP Terminals

Appearance			
			
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

High-density D-sub Sockets with Right-angle DIP Terminals

Appearance			
			
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

High-density D-sub Sockets with Right-angle DIP Terminals

Appearance			
			
Accessories No. of contacts	No anchors	Anchor 2 (XM4Z-0011) M2.6 x 0.45	Anchor 2 (XM4Z-0013) #4-40 UNC
15	XM4L-1541-501	XM4L-1541-112	XM4L-1541-132

Note: For other models with Anchors, contact your OMRON representative.

Anchor 2 (Screw Head Length: 5.8 mm)

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

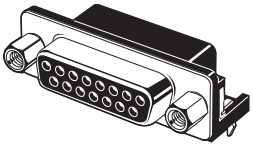
Anchor 3 (Screw Head Length: 4.8 mm)

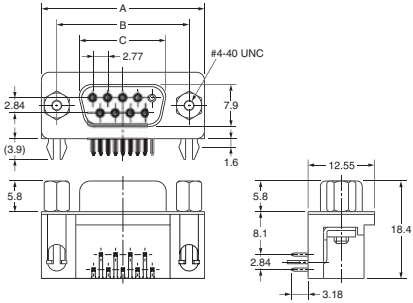
Type	For right-angle DIP terminals			For straight DIP terminals		
Appearance						
Lock screw	M2.6 x 0.45	M3 x 0.5	#4-40 UNC	M2.6 x 0.45	M3 x 0.5	#4-40 UNC
Model	XM4Z-0021	XM4Z-0022	XM4Z-0023	XM4Z-1021	XM4Z-1022	XM4Z-1023

■ Dimensions

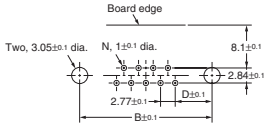
D-sub Sockets with Right-angle DIP Terminals

XM3B-0942-132L
XM3B-1542-132L
XM3B-2542-132L





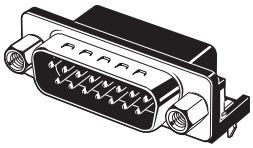
Mounting holes (t = 1.6 mm, bottom view)

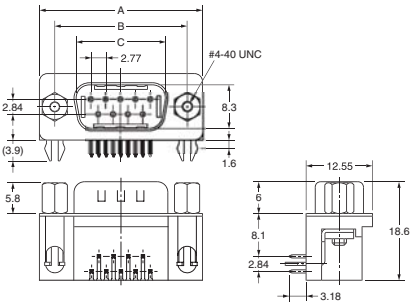


No. of contacts (N)	A	B	C	D
9	30.8	24.99	16.33	6.96
15	39.1	33.32	24.66	6.96
25	53.0	47.04	38.38	6.91

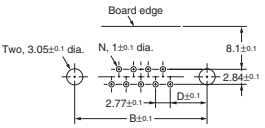
D-sub Plugs with Right-angle DIP Terminals

XM2C-0942-132L
XM2C-1542-132L
XM2C-2542-132L





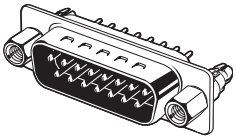
Mounting holes (t = 1.6 mm, bottom view)

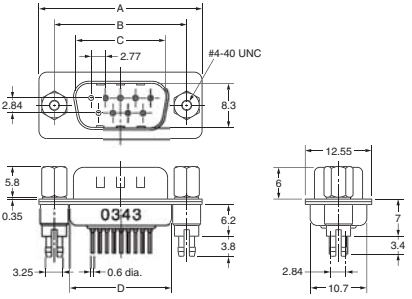


No. of contacts (N)	A	B	C	D
9	30.8	24.99	16.92	6.96
15	39.1	33.32	25.25	6.96
25	53.0	47.04	38.96	6.91

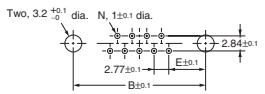
D-sub Plugs with Straight DIP Terminals

XM2E-0940-132L
XM2E-1540-132L
XM2E-2540-132L





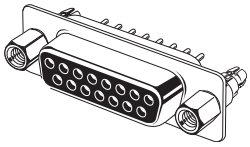
Mounting holes (t = 1.6 mm, bottom view)

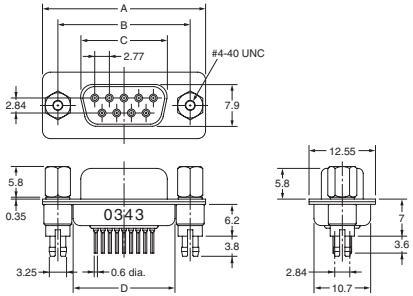


No. of contacts (N)	A	B	C	D	E
9	30.8	24.99	16.92	19.23	6.96
15	39.1	33.32	25.25	27.56	6.96
25	53.0	47.04	38.96	41.28	6.91

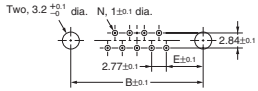
D-sub Sockets with Straight DIP Terminals

XM2F-0940-132L
XM2F-1540-132L
XM2F-2540-132L





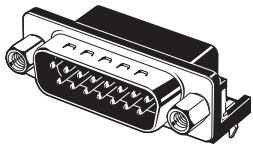
Mounting holes (t = 1.6 mm, bottom view)

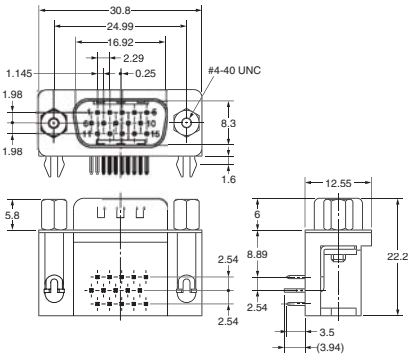


No. of contacts (N)	A	B	C	D	E
9	30.8	24.99	16.33	19.23	6.96
15	39.1	33.32	24.66	27.56	6.96
25	53.0	47.04	38.38	41.28	6.91

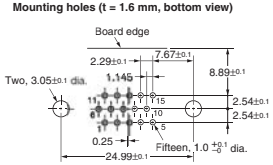
High-density D-sub Plugs with Right-angle DIP Terminals

XM4K-1542-132



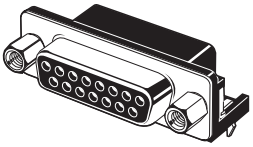


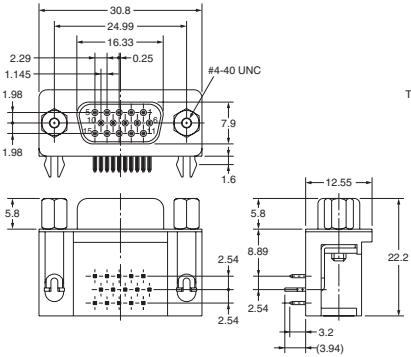
Mounting holes (t = 1.6 mm, bottom view)



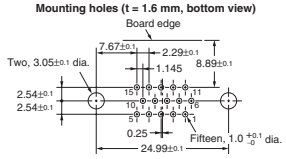
High-density D-sub Sockets with Right-angle DIP Terminals

XM4L-1542-132



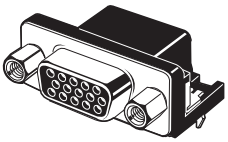


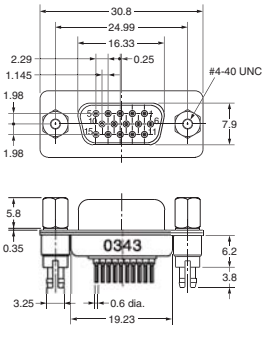
Mounting holes (t = 1.6 mm, bottom view)



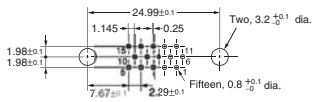
High-density D-sub Sockets with Straight DIP Terminals

XM4L-1541-132



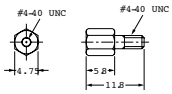


Mounting holes (t = 1.6 mm, bottom view)

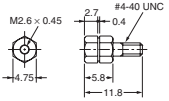


Anchor 2

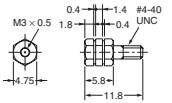
XM4Z-0011



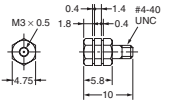
XM4Z-0011



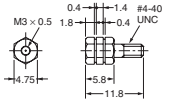
XM4Z-0012



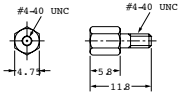
XM4Z-0012



XM4Z-0013

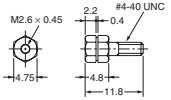


XM4Z-0013



Anchor 3

XM4Z-0021



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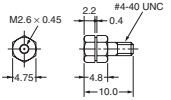
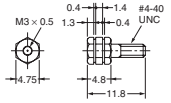


XM4Z-0022



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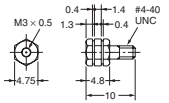

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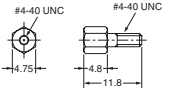

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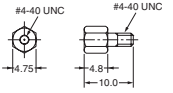
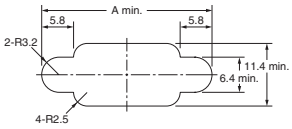


Dimensions: Not Panel Mounted (Using Anchor 2)



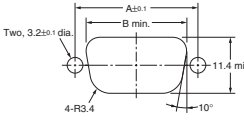
No. of contacts (N)	A
9 (See note.)	31.0
15	39.4
25	53.3

Note: 1. Two Anchors are required per Connector.

2. Applicable panel thickness is less than 1.2 mm.

Note: 1. The XM4K and XM4L use 9-contact dimensions.

Dimensions: Panel Mounted (Using Anchor 3 or M3 Screws)



No. of contacts (N)	A	B
9 (See note.)	24.99	20.5
15	33.32	28.8
25	47.04	42.5

Note: 1. Two Anchors are required per Connector.

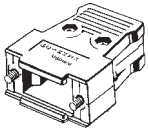
2. Applicable panel thickness is less than 1.2 mm.

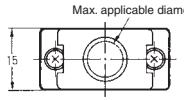
Note: 1. The XM4K and XM4L use 9-contact dimensions.

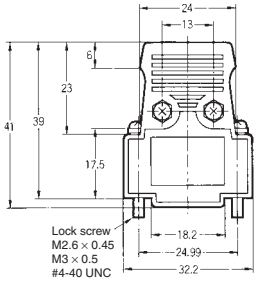
XM2S Hood Covers

■ Dimensions

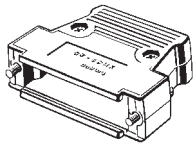
9-contact Hoods
XM2S-0911
(M2.6 x 0.45 metric screws)
XM2S-0912
(M3 x 0.5 metric screws)
XM2S-0913
(#4-40 UNC inch screws)

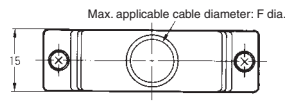


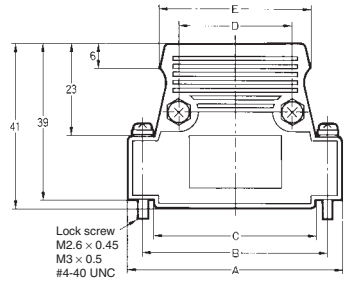




15-, 25- and 37-contact Hoods
XM2S-@@11
(M2.6 x 0.45 metric screws)
XM2S-@@12
(M3 x 0.5 metric screws)
XM2S-@@13
(#4-40 UNC inch screws)







■ Dimensions

No. of contacts	A	B	C	D	E	F
15	40.5	33.32	26.5	19	30	10
25	54.0	47.04	40	29	38	11
37	70.5	63.50	57	42	50	13

■ Ordering Information

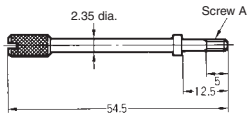
Applicable Anchors / No. of contacts	Lock screw	M2.6 x 0.45 metric screws	M3 x 0.5 metric screws	#4-40 UNC inch screws
	Anchor 1	XM2Z-0001	XM2Z-0002	XM2Z-0003
	Anchor 2	XM2Z-0011	XM2Z-0012	XM2Z-0013
	Anchor 3	XM2Z-0021	XM2Z-0022	XM2Z-0023
9		XM2S-0911	XM2S-0912	XM2S-0913
15		XM2S-1511	XM2S-1512	XM2S-1513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

Note: Select D-sub Connectors with Anchors or Grounding Fixtures that fit the lock screw of the Hood.

■ Accessories (Sold Separately)

Anchor 5 (For Jackscrews and XM2S Hood)
XM2Z-0071 (M2.6 ¥ 0.45 metric screws)
XM2Z-0072 (M3 ¥ 0.5 metric screws)
XM2Z-0073 (#4-40 UNC inch screws)

Materials and Finish
Brass/nickel plated



■ Dimensions

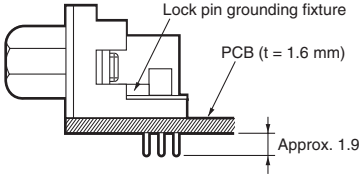
Model	A
XM2Z-0071	M2.6 x 0.45
XM2Z-0072	M3 x 0.5
XM2Z-0073	#4-40 UNC

■ Precautions

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 N·m.