

RCP3/RCA2 Actuator

Table Type

First Step Guide Tenth Edition

Thank you for purchasing our product.

Make sure to read the Safety Guide and detailed Instruction Manual as well as this First Step Guide to ensure correct use. This Instruction Manual is original.

Warning : Read the instruction manual carefully and follow the instruction manual when handling this equipment. Please downloaded the user's manual from our website. You can download it free of charge. User registration is required for first time users.
 URL: www.iai-robot.co.jp/data_dl/CAD_MANUAL/
 Keep a printout of the introduction manual near the equipment in which this product is installed so that it can be checked at all times, or display it on your computer, tablet terminal, etc. so that you can check it immediately.
 If you need a bound copy of the instruction manual, order it from the nearest sales office listed in the First Step Guide or at the end of the instruction manual. It will be provided for a fee.

- Using or copying all or part of this Instruction Manual without permission is prohibited.
- The company names, names of products and trademarks of each company shown in the sentences are registered trademarks.

Product Check

This product is comprised of the following parts if it is of standard configuration.

If you find any fault in the contained model or any missing parts, contact us or our distributor.

1. Parts (The option is excluded.)

No.	Part Name	Model	Quantity	Remarks
1	Actuator Main Body	Refer to "How to read the model plate", "How to read the model No."	1	
Accessories				
2	Motor - Encoder Cable (Note 1)		1	
3	Home Position Marking Sticker		1	Enclosed to TA3C, TA4C, TA5C, TA6C, TA7C, TA3R, TA4R, TA5R, TA6R, TA7R
4	First Step Guide	ME3676	1	
5	Safety Guide	M0194	1	

Note 1 Enclosed Motor : Encoder Cable differ depending on the applied controller.

Please refer to [Wiring] for the applicable cables.

2. How to read the model plate

Model	MODEL	RCA2-TA5C-I-20-10-25-A1-P-B
Serial number	SERIAL No.	600090254
		MADE IN JAPAN

3. How to read the model No.

3.1 RCP3 Actuator

RCP3-TA5C-I-35P-10-25-P1-P-B-**-	
<Series>	Identification for IAI use only (Note 1)
<Type>	
Motor Unit Type	
Motor Coupling Type	
TA3C [Thin and Small Type ROBO Cylinder]	
TA4C [Thin and Small Type ROBO Cylinder]	
TA5C	
TA6C	
TA7C	
Motor Reversing Type	
TA3R [Thin and Small Type ROBO Cylinder]	
TA4R [Thin and Small Type ROBO Cylinder]	
TA5R	
TA6R	
TA7R	
<Encoder type>	
I : Incremental	
<Motor Type>	
20P (20 □Size) : TA3C, TA3R	
28P (28 □Size) : TA4C, TA4R	
35P (35 □Size) : TA5C, TA5R	
42P (42 □Size) : TA6C, TA6R, TA7C, TA7R	
<Lead>	
TA3C, TA3R	TA6C, TA6R
2/4/6	3/6/12
TA4C, TA4R	TA7C, TA7R
2/4/6	3/6/12
TA5C, TA5R	
2.5/5/10	
Note 1 This may be displayed for the manufacturing reason. (This is not to indicate the manufacturing model code.)	
<Option>	
B : Brake-equipped	
CJT : Cable exit direction changed (to top side)	
CJR : Cable exit direction changed (to right side)	
CJL : Cable exit direction changed (to left side)	
CJB : Cable exit direction changed (to bottom side)	
CJO : Cable exit direction changed (to end side)	
NM : Reversed-Home Type	
<Stroke>	
N : None	
P : 1m	
S : 3m	
M : 5m	
X□ : Specified Length	
<Applicable Controller>	
P1 : PSEL	
PCON-C/CG	
PCON-CY	
PCON-SE	
PCON-PL/PO	
P3 : PCON-CB/CGB	
PCON-CYB/PLB/POB	
PCON-CA	
PMEC, PSEP	
MSEP, MCON, MSEL	
RCON-PC	
RCM-P6PC	

[Refer to the catalog or Instruction Manual for specification details.]

3.2 RCA2 Actuator

RCA2-TA5C-I-20-10-25-A1-P-B-**-	
<Series>	Identification for IAI use only (Note 1)
<Type>	
Motor Unit Type	
Motor Coupling Type	
TA4C [Thin and Small Type ROBO Cylinder]	
TA5C	
TA6C	
TA7C	
Motor Reversing Type	
TA4R [Thin and Small Type ROBO Cylinder]	
TA5R	
TA6R	
TA7R	
Total Length Short Type	
Compact Type	
TCA3NA [Thin and Small Type ROBO Cylinder]	
TCA4NA [Thin and Small Type ROBO Cylinder]	
TCA3N [Thin and Small Type ROBO Cylinder]	
TCA4N [Thin and Small Type ROBO Cylinder]	
Wide Type	
TWA3NA [Thin and Small Type ROBO Cylinder]	
TWA4NA [Thin and Small Type ROBO Cylinder]	
TWA3N [Thin and Small Type ROBO Cylinder]	
TWA4N [Thin and Small Type ROBO Cylinder]	
Flat Type	
TFA3NA [Thin and Small Type ROBO Cylinder]	
TFA4NA [Thin and Small Type ROBO Cylinder]	
TFA3N [Thin and Small Type ROBO Cylinder]	
TFA4N [Thin and Small Type ROBO Cylinder]	
<Encoder type>	
I : Incremental	
<Motor Type>	
10(10W) : TCA3NA, TWA3NA, TFA3NA	
TCA3N, TWA3N, TFA3N	
20(20W) : TCA4NA, TWA4NA, TFA4NA	
TCA4N, TWA4N, TFA4N, TA5C, TA5R, TA6C, TA6R	
30(30W) : TA7C, TA7R	
<Lead>	
TA3C, TA3R	TCA3NA, TWA3NA, TFA3NA
2/4/6	TCA4NA, TWA4NA, TFA4NA
TA4C, TA4R	TCA3N, TWA3N, TFA3N
2/4/6	TCA4N, TWA4N, TFA4N (Lead Screw) 2S/4S/6S
TA5C, TA5R	1S/2S/4S
2.5/5/10	TCA3NA, TWA3NA, TFA3NA
TA6C, TA6R	TCA4NA, TWA4NA, TFA4NA
3/6/12	TCA3N, TWA3N, TFA3N (Ball Screw)
TA7C, TA7R	TCA4N, TWA4N, TFA4N (Ball Screw) 2/4/6
3/6/12	1/2/4
<Option>	
B : Brake-equipped (Note 2)	
CNS : Small Connector Type (Note 3)	
CJT : Cable exit direction changed (to top side)	
CJR : Cable exit direction changed (to right side)	
CJL : Cable exit direction changed (to left side)	
CJB : Cable exit direction changed (to bottom side)	
CJO : Cable exit direction changed (to end side)	
K2 : Connector Cable exit direction changed	
LA : Power Saving Type	
NM : Reversed-Home Type	
BG : Ball Guide Type	
(Note) The model codes for the option BG (ball guide type) are to be those with old codes such as TC3N.	
<Cable length>	
N : None	
P : 1m	
S : 3m	
M : 5m	
X□ : Specified Length	
<Applicable Controller>	
A1 : ASEL	
ACON-C/CG	
ACON-CY	
ACON-SE	
ACON-PL/PO	
A3 : ACON-CYB	
ACON-PLB/POB	
MCON	
AMEC	
ASEP	
A5 : ACON-CB/CGB	
ACON-CA	
A6 : ACON-AC	
RCM-P6AC	
<Stroke>	

Note 1 This may be displayed for the manufacturing reason. (This is not to indicate the manufacturing model code.)

Note 2 TCA3N, TCA4N, TWA3N, TWA4N, TFA3N, TFA4N are not applicable.

Note 3 It is available for setting only when applicable controller A3, A5 or A6 is selected.

[Refer to the catalog or Instruction Manual for specification details.]

Caution : If it is necessary to change the orientation of cable ejection of the connector after the product has already been delivered, please contact IAI. In case that you change the orientation of cable ejection by your own, we will not be able to guarantee the product as there is a concern of malfunction due to a reason such as pinching of wire inside the motor unit.

Precautions in Handling

Handle it with great care, and keep to the following instructions. Failure to do so may cause damage to the product.

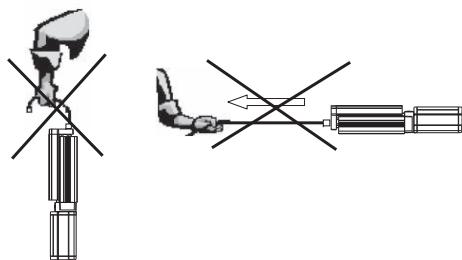
1. Handling of the Packed Product

Take the greatest care in transporting the product, not to bump or drop it.

- When setting down the packed actuator keep it horizontal.
- Do not step on the package.
- Do not place any heavy article on top of the package that may deform the package.

2. Handling of the Unpacked Product

Do not transport the actuator by holding the cable or move it by pulling the cable.



- When the actuator is taken out from the package and handled, hold the base section.
- When carrying the actuator, do not bump or drop the actuator or otherwise cause the actuator to receive any impact or excessive force.
- Do not give any unnatural force to any of the sections in the actuator.

Installation Environment, Storage Environment

1. Installation Environment

An environment that satisfies the following conditions is required during installation.

Generally speaking, it should be an environment where a worker can work without any protective gear.

- There should be no direct sunlight.
- Any radiant heat from a large heat source such as heat treatment furnace should not be directed at the machine main body.
- The ambient temperature should be 0 to 40°C.
- The relative humidity should be 85% or less. There should not be dew condensation.
- There should not be corrosive gas or flammable gas.
- It should be a normal assembling work environment where there is not too much dust.
- Oil mist or cutting liquid should not be directed at the machine.
- Chemical liquid should not be splashed on it.
- An impact or vibration should not be transmitted to it.
- There should not be strong electromagnetic waves, ultraviolet rays or radiation.
- The working space required for maintenance or inspection should be secured.

2. Storage and Preservation Environment

The storage and preservation environment should comply with the same standards as those for the installation environment. In particular, when the machine is to be stored for a long time, pay close attention to environmental conditions so that no condensation forms. Unless specially specified, moisture absorbcency protection is not included in the package when the machine is delivered. In the case that the machine is to be stored and preserved in an environment where condensation is anticipated, take the condensation preventive measures from outside of the entire package, or directly after opening the package.

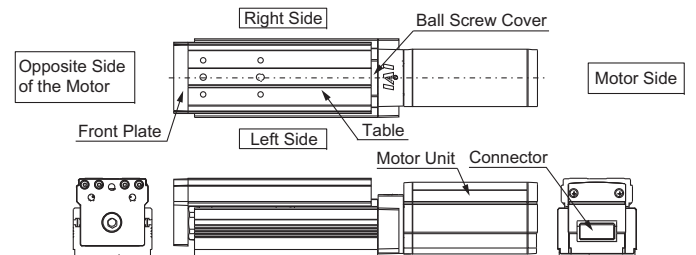
In the storage and preservation for up to 1 month, it can endure in the temperature at 60°C at maximum. For the storage and preservation longer than that, keep the temperature at 50°C at maximum.

External Dimensions

1. Motor Unit Type

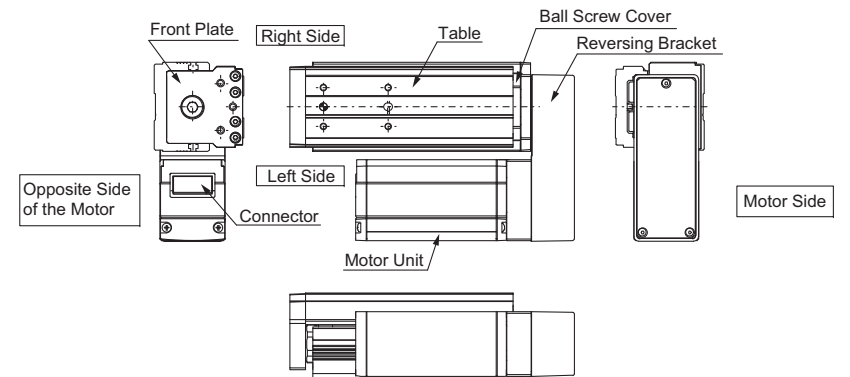
1.1 Motor Coupling Type

RCP3-TA3C, TA4C, TA5C, TA6C, TA7C
 RCA2-TA4C, TA5C, TA6C, TA7C



1.2 Motor Reversing Type

RCP3-TA3R, TA4R, TA5R, TA6R, TA7R
 RCA2-TA4R, TA5R, TA6R, TA7R



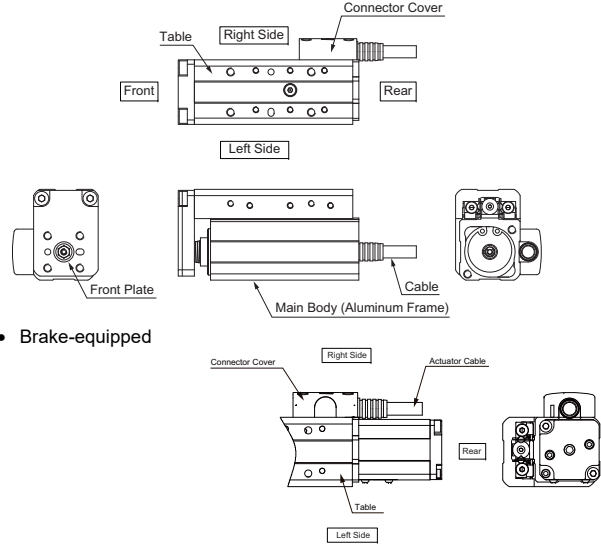
* Connector position in the figure above is that with no ejection direction change.

2. Total Length Short Type

2.1 Compact Type

RCA2-TCA3NA, TCA3N (Lead Screw, Ball Screw), TCA4NA, TCA4N (Lead Screw, Ball Screw)

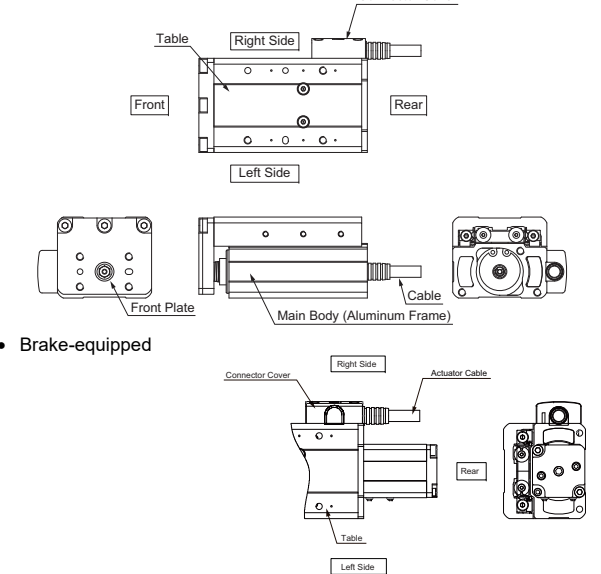
- Without Brake



2.2 Wide Type

RCA2-TWA3NA, TWA3N (Lead Screw, Ball Screw), TWA4NA, TWA4N (Lead Screw, Ball Screw)

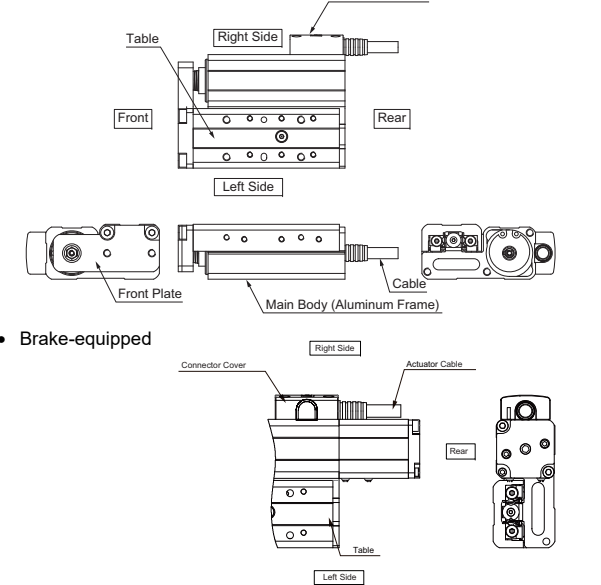
- Without Brake



2.3 Flat Type

RCA2-TFA3NA, TFA3N (Lead Screw, Ball Screw), TFA4NA, TFA4N (Lead Screw, Ball Screw)

- Without Brake



Attachment

1. Motor Unit Type

RCP3-TA3C, TA4C, TA5C, TA6C, TA7C, TA3R, TA4R, TA5R, TA6R, TA7R

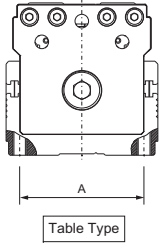
RCA2-TA4C, TA5C, TA6C, TA7C, TA4R, TA5R, TA6R, TA7R

1.1 Installing the Actuator

Fix it using the tapped hole on the rear side.

Description of the Set Screws

- For the base male set screw, use a hexagon socket head cap screw.
- For the bolt to be used, a high-tensile bolt complying with ISO-10.9 or more is recommended.
- The length of thread engagement should be 1.8 times more than the nominal diameter, and pay attention not to stick the screw out inside the actuator.

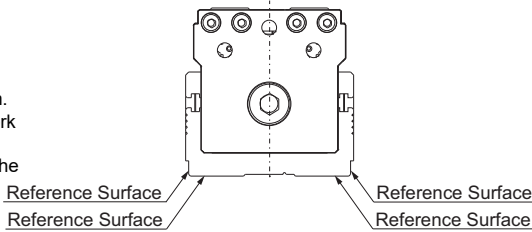


Model	Tap Size and Max. Screw Depth	Bolt to be used	Tightening Torque		A(mm)	Reamed Hole(mm)
			In the case that steel is used for the bolt seating surface:	In the case that aluminum is used for the bolt seating surface:		
TA3	M3 Depth 5	M3	1.54N·m(0.16kgf·m)	0.83N·m(0.085kgf·m)	28	Depth 3.5 from the $\phi 3H7$ Base Surface
TA4	M4 Depth 7.5	M4	3.59N·m(0.37kgf·m)	1.76N·m(0.18kgf·m)	31	Depth 4.5 from the $\phi 4H7$ Base Surface
TA5	M5 Depth 10	M5	7.27N·m(0.74kgf·m)	3.42N·m(0.35kgf·m)	45	Depth 5 from the $\phi 5H7$ Base Surface
TA6	M5 Depth 10	M5	7.27N·m(0.74kgf·m)	3.42N·m(0.35kgf·m)	55	Depth 5 from the $\phi 5H7$ Base Surface
TA7	M6 Depth 12	M6	12.34N·m(1.26kgf·m)	5.36N·m(0.55kgf·m)	64	Depth 6 from the $\phi 6H7$ Base Surface

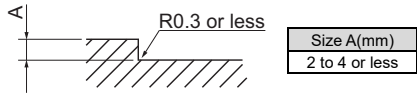
⚠ Note : Take care in selecting the bolt. Using a bolt with inappropriate length may cause damage to the tapped hole, insufficient attachment strength of the actuator or interference with the driving section, which may result in degradation of accuracy, damage or unexpected accident.

1.2 Attachment Surface

- The base has to have a structure with sufficient rigidity to prevent oscillation.
- For the surface to which the actuator is attached, a machined surface or flat one with equivalent accuracy should be used. The flatness should be within $\pm 0.05\text{mm/m}$.
- Secure the space where maintenance work can be performed.
- This surface is used as the reference for the actuator base side and lower side slider running. In the case that the running accuracy is required, attach the actuator using this surface as the reference.

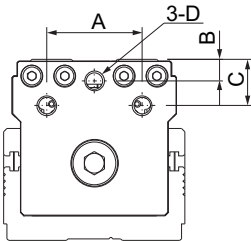


Refer to the following figure for the processing when the actuator is attached to the base using the base reference surface.



1.3 Attachment of the payload to be carried

- Fix the payload to be carried using the tapped hole on the front plate or on the table upper surface.
- For the male set screw, use a hexagon socket head cap screw.
- For the bolt to be used, a high-tensile bolt complying with ISO-10.9 or more is recommended.
- There are the two reamed holes on the upper surface of the table. In the case that the reproducibility for the attachment and removal is required, use these reamed holes. Also, in the case that fine adjustment for squareness is required, select one of these reamed holes to be used and adjust.
- Refer to the follow table for the screw depth and reamed hole depth.



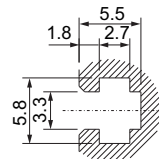
In the case that the screw is screwed in the hole to the depth more than the value in the following table, it might cause a damage to the tapped hole or insufficient attachment strength of the object to be carried, which may result in degradation of accuracy or unexpected accident.

Model	A	B	C	D	Set Screw	
					Screw Nominal Diameter	Tightening Torque
TA3	24	5	10	M4 Depth 6	M4	1.76N·m(0.18kgf·m)
TA4	29	5	13	M5 Depth 6	M5	3.42N·m(0.35kgf·m)
TA5	29	6.5	14	M6 Depth 10	M6	5.36N·m(0.55kgf·m)
TA6	35	7	18	M6 Depth 13	M6	5.36N·m(0.55kgf·m)
TA7	44	6.5	21.5	M8 Depth 15	M8	11.48N·m(1.17kgf·m)

1.4 T-Groove

A T-groove is provided on the side of the main body of TA5C, 6C, 7C, 5R, 6R or 7R to attach the external equipment (for M3). Use the groove freely for the sensor attachment or fixing of wires, when necessary. The dimensions of the groove are described as follows.

- For the nut used for the T-groove, a square nut is recommended, but a hexagon nut can also be used.
- When it is attached, take care in selecting the bolt length so that the end of the bolt does not touch the bottom section of the T-groove.



2. Total Length Short Type

2.1 Main Body Attachment

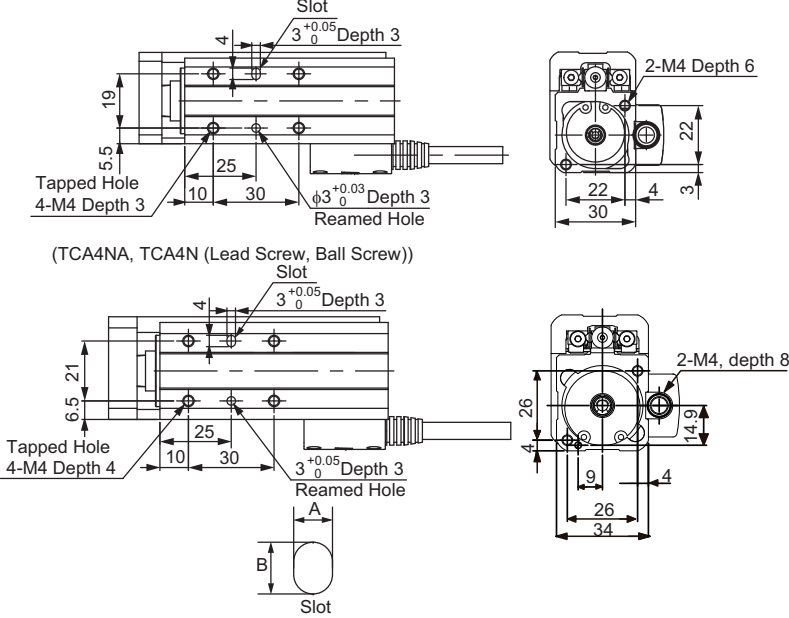
Fix it using the tapped hole on the rear side.

Description of the Set Screws

- For the base male set screw, use a hexagon socket head cap screw.
- For the bolt to be used, a high-tensile bolt complying with ISO-10.9 or more is recommended.

2.1.1 Compact Type

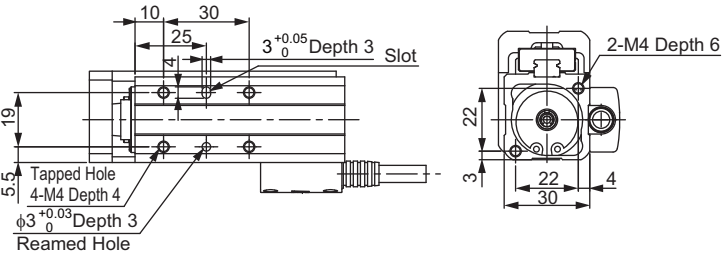
RCA2-TCA3NA, TCA3N (Lead Screw, Ball Screw), TCA4NA, TCA4N (Lead Screw, Ball Screw)
(TCA3NA, TCA3N (Lead Screw, Ball Screw))



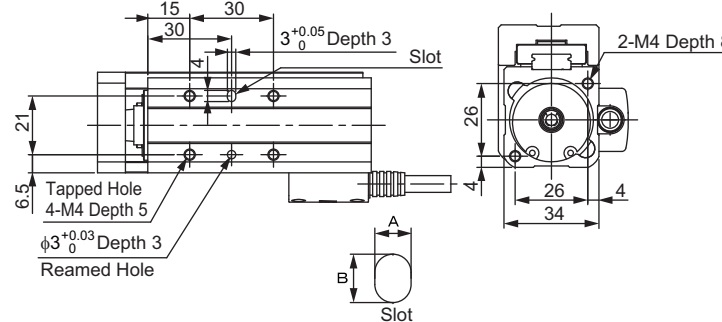
Model	Tap Size and Max. Screw Depth	Bolt to be used	Tightening Torque		Slot	Reamed Hole(mm)
			In the case that steel is used for the bolt seating surface:	In the case that aluminum is used for the bolt seating surface:		
TCA3NA, TCA3N (Lead Screw, Ball Screw)	M4 Depth 3	M4	3.59N·m(0.37kgf·m)	1.76N·m(0.18kgf·m)	A:3, B:4, Depth: 3	$\phi 3$ Depth 3
TCA4NA, TCA4N (Lead Screw, Ball Screw)	M4 Depth 4	M4	3.59N·m(0.74kgf·m)	1.76N·m(0.35kgf·m)	A:3, B:4, Depth: 3	$\phi 3$ Depth 3

⚠ Note : The tapped hole in the attachment section is partly a through hole. Never use the screw longer than the screw effective length. Failure to do so may cause damage to inner mechanism or electrical component.

(TC3N (Lead Screw) Ball Guide Type (Option: Model Code BG))

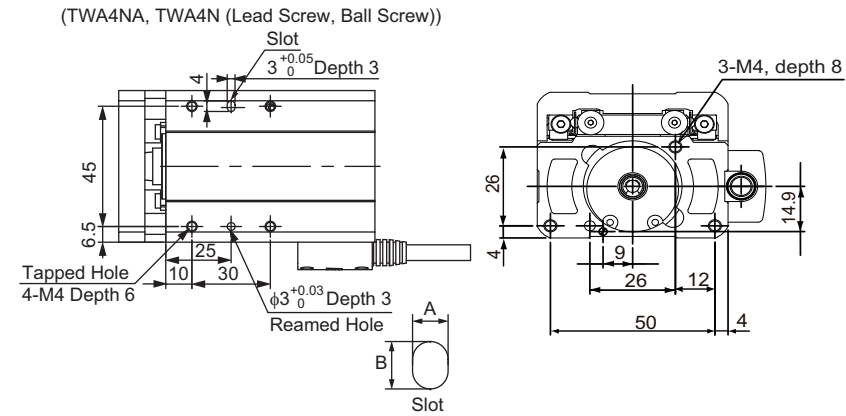


(TC4N (Lead Screw), TC4N (Ball Screw) Ball Guide Type (Option: Model Code BG))



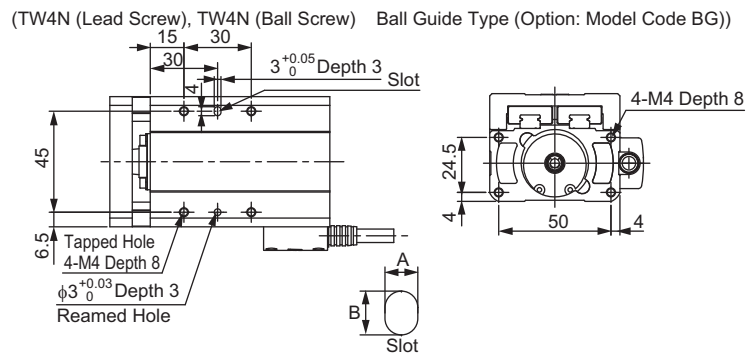
Model	Tap Size and Max. Screw Depth	Bolt to be used	Tightening Torque		Slot	Reamed Hole(mm)
			In the case that steel is used for the bolt seating surface:	In the case that aluminum is used for the bolt seating surface:		
TC3N (Lead Screw)	M4 Depth 3	M4	3.59N·m(0.37kgf·m)	1.76N·m(0.18kgf·m)	A:3, B:4, Depth: 3	$\phi 3$ Depth 3
TC4N (Lead Screw, Ball Screw)	M4 Depth 4	M4	3.59N·m(0.74kgf·m)	1.76N·m(0.35kgf·m)	A:3, B:4, Depth: 3	$\phi 3$ Depth 3

RCA2-TWA3NA, TWA3N (Lead Screw, Ball Screw), TWA4NA, TWA4N (Lead Screw, Ball Screw)
(TWA3NA, TWA3N (Lead Screw, Ball Screw))



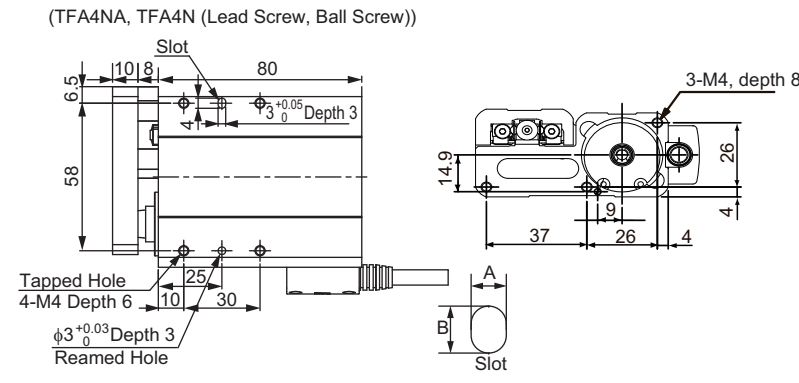
 Note : The tapped hole in the attachment section is partly a through hole. Never use the screw longer than the screw effective length. Failure to do so may cause damage to inner mechanism or electrical component.

(TW3N (Lead Screw) Ball Guide Type (Option: Model Code BG))



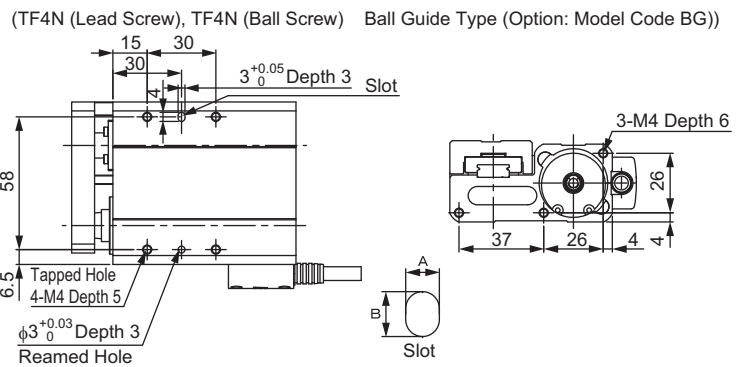
Model	Tap Size and Max. Screw Depth	Bolt to be used	Tightening Torque		Slot	Reamed Hole(mm)
			In the case that steel is used for the bolt seating surface:	In the case that aluminum is used for the bolt seating surface:		
TW3N (Lead Screw)	M4 Depth 6	M4	3.59N·m(0.37kgf·m)	1.76N·m(0.18kgf·m)	A:3, B:4, Depth: 3	φ3 Depth 3
TW4N (Lead Screw, Ball Screw)	M4 Depth 6	M4	3.59N·m(0.74kgf·m)	1.76N·m(0.35kgf·m)	A:3, B:4, Depth: 3	φ3 Depth 3

RCA2-TFA3NA, TFA3N (Lead Screw, Ball Screw), TFA4NA, TFA4N (Lead Screw, Ball Screw)
(TFA3NA, TFA3N (Lead Screw, Ball Screw))



 **Note :** The tapped hole in the attachment section is partly a through hole. Never use the screw longer than the screw effective length. Failure to do so may cause damage to inner mechanism or electrical component.

(TF3N (Lead Screw) Ball Guide Type (Option: Model Code BG))



Model	Tap Size and Max. Screw Depth	Bolt to be used	Tightening Torque		Slot	Reamed Hole(mm)
			In the case that steel is used for the bolt seating surface:	In the case that aluminum is used for the bolt seating surface:		
TF3N (Lead Screw)	M4 Depth 3	M4	3.59N·m(0.37kgf·m)	1.76N·m(0.18kgf·m)	A:3, B:4, Depth: 3	φ3 Depth 3
TF4N (Lead Screw, Ball Screw)	M4 Depth 4	M4	3.59N·m(0.74kgf·m)	1.76N·m(0.35kgf·m)	A:3, B:4, Depth: 3	φ3 Depth 3

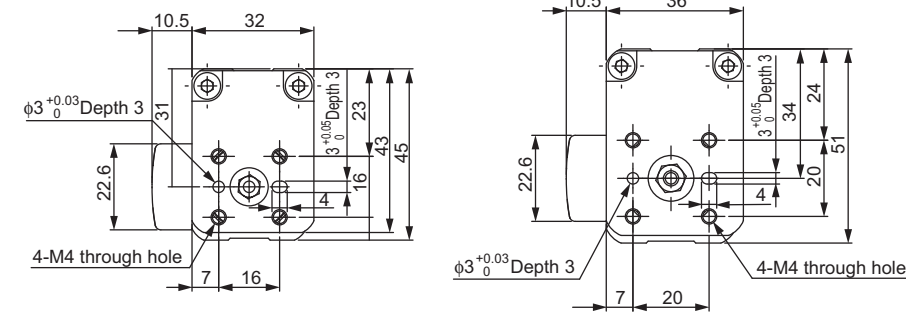
- Fix the object to be carried using the tapped hole on the front plate or on the table upper surface.
- For the male set screw, use a hexagon socket head cap screw.
- For the bolt to be used, a high-tensile bolt complying with ISO-10.9 or more is recommended.
- Attach it using the same procedure for the attachment of the main body.
- There are the two reamed holes on the upper surface of the table. In the case that the reproducibility for the attachment and removal is required, use these reamed holes. Also, in the case that fine adjustment for squareness is required, select one of these reamed holes to be used and adjust.
- Refer to the following figures for the screwing depth and reamed hole depth.

In the case that the screw is screwed in the hole to the depth more than the value in the following figures, it might cause a damage to the tapped hole or insufficient attachment strength of the object to be carried, which may result in degradation of accuracy or unexpected accident.

RCA2-TCA3NA, TCA3N (Lead Screw, Ball Screw), TCA4NA, TCA4N (Lead Screw, Ball Screw)

(TCA3NA, TCA3N (Lead Screw, Ball Screw))

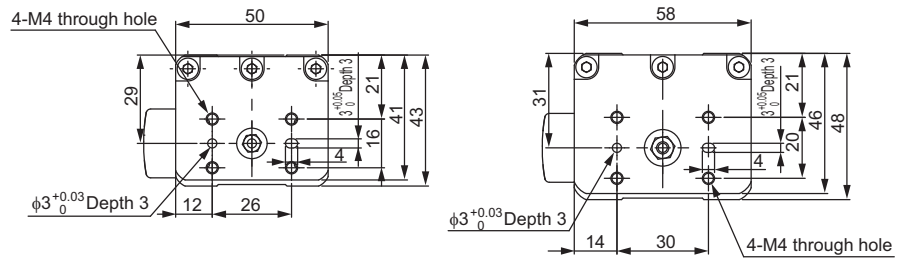
(TCA4NA, TCA4N (Lead Screw, Ball Screw))



RCA2-TWA3NA, TWA3N (Lead Screw, Ball Screw), TWA4NA, TWA4N (Lead Screw, Ball Screw)

(TWA3NA, TWA3N (Lead Screw, Ball Screw))

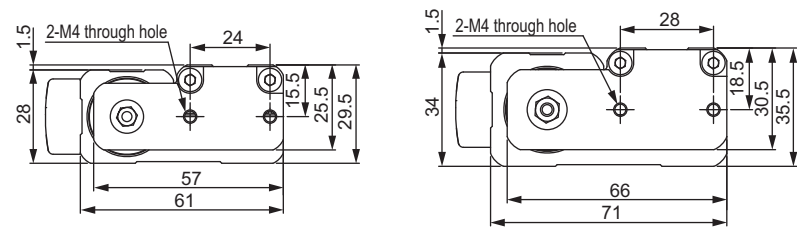
(TWA4NA, TWA4N (Lead Screw, Ball Screw))



RCA2-TFA3NA, TFA3N (Lead Screw, Ball Screw), TFA4NA, TFA4N (Lead Screw, Ball Screw)

(TFA3NA, TFA3N (Lead Screw, Ball Screw))

(TFA4NA, TFA4N (Lead Screw, Ball Screw))



Wiring

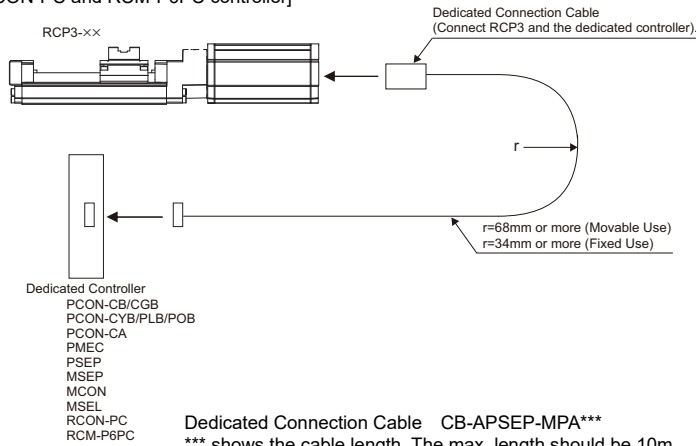
For the controller, use the dedicated controller manufactured by our company.

For the connection between the actuator and controller, use the attached dedicated connection cable.

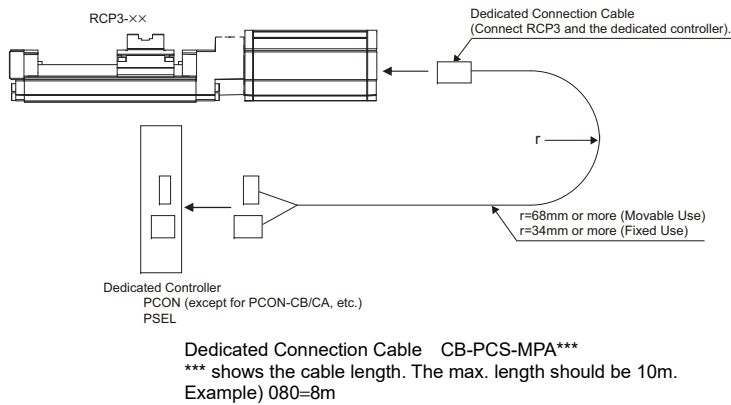
1. RCP3 Actuator Connection

Motor Coupling Type TA3C/TA4C/TA5C/TA6C/TA7C,
Motor Reversing Type TA3R/TA4R/TA5R/TA6R/TA7R

[Connection to the PCON-CB/CGB/CYB/PLB/POB, PCON-CA, PMEC, PSEP, MSEP, MCON, MSEL, RCON-PC and RCM-P6PC controller]



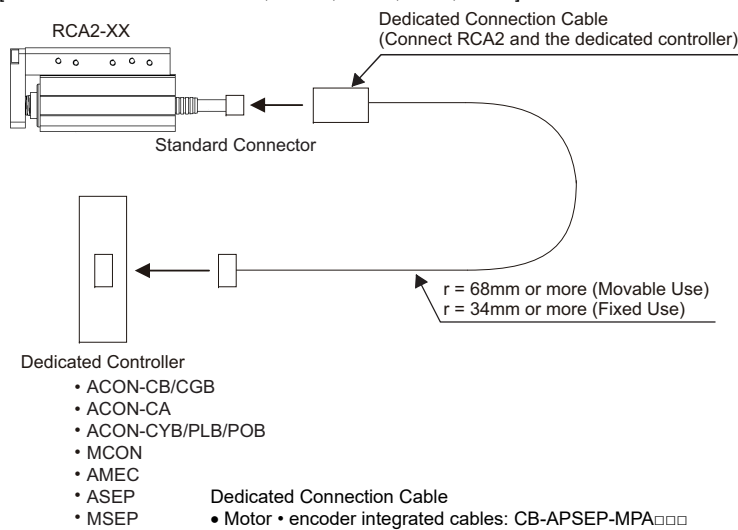
[Connection to the PCON (except for PCON-CB/CA, etc.) and PSEL controller]



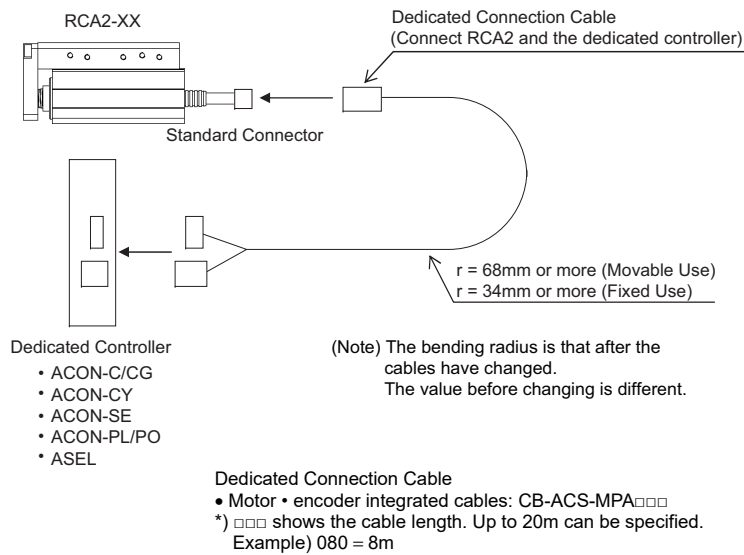
2. RCA2 Actuator Connection

Motor Coupling Type TA4C/TA5C/TA6C/TA7C, Motor Reversing Type TA4R/TA5R/TA6R/TA7R
TCA3NA/TCA4NA/TCA3N/TCA4N
TWA3NA/TWA4NA/TWA3N/TWA4N
TFA3NA/TFA4NA/TFA3N/TFA4N

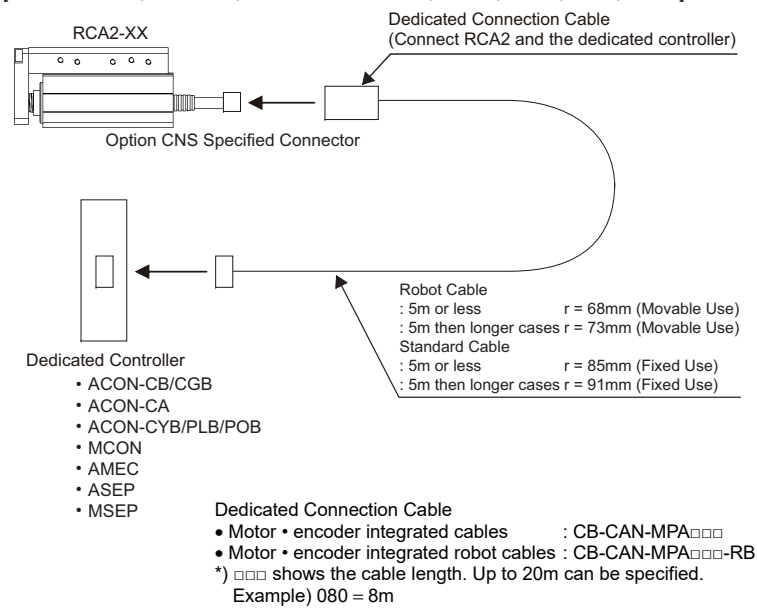
[ACON-CB/CGB/CYB/PLB/POB, MCON, AMEC, ASEP, MSEP]



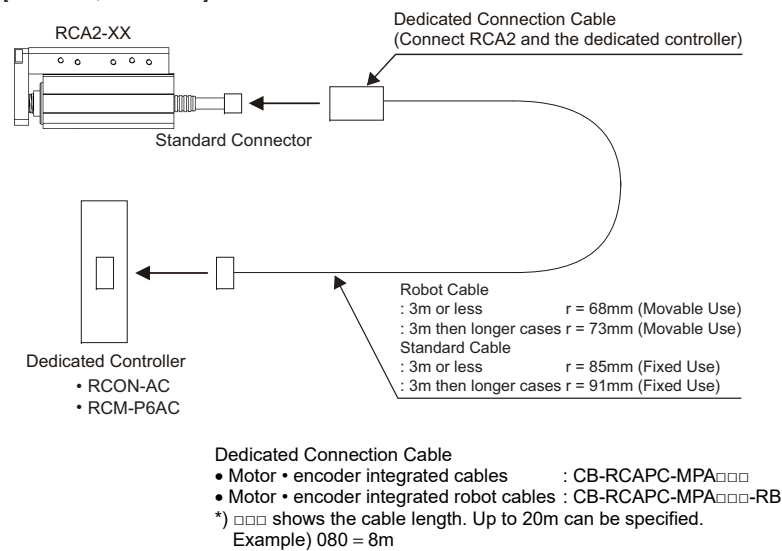
[ACON-C/CG, ACON-CY, ACON-SE, ACON-PL/PO, ASEL]



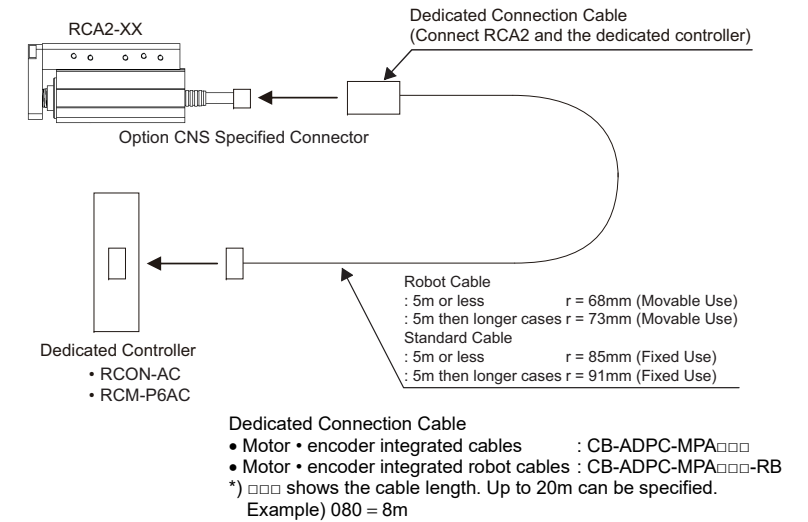
[ACON-CB/CGB, ACON-CA, ACON-CYB/PLB/POB, MCON, AMEC, ASEP, MSEP]



[RCON-AC, RCM-P6AC]

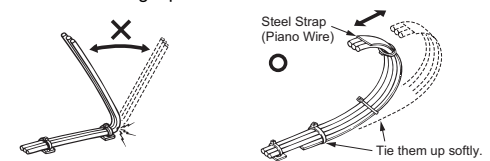


[RCON-AC, RCM-P6AC]

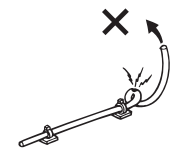


[Prohibited Items in the Cable Processing]

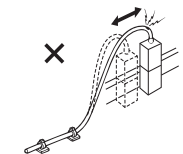
- Do not pull or bend forcibly the cable so as not to give any extra load or tension to the cable.
- Do not process the cable to extend or shortening by means of cutting out, combination or connecting with another cable.
- Do not let the cable flex at a single point.



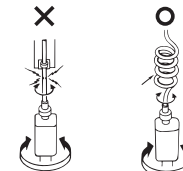
- Do not let the cable bend, kink or twist.



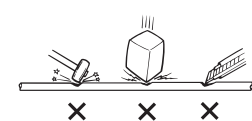
- Do not pull the cable with a strong force.



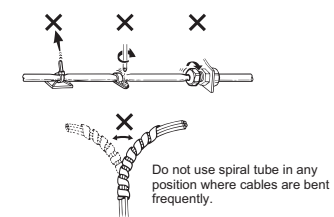
- Do not let the cable receive a turning force at a single point.



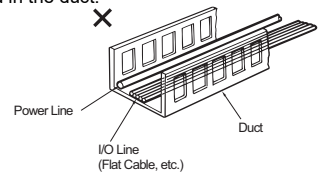
- Do not pinch, drop a heavy object onto or cut the cable.



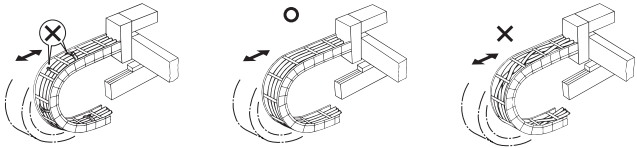
- When fixing the cable, provide a moderate slack and do not tension it too tight.



- Separate the I/O line, communication line and power line from each other. Arrange so that such lines are independently routed in the duct.



- Follow the instructions below when using a cable track.
- If there is an indication to the cable for the space factor in a cable track, refer to the wiring instruction given by the supplier when storing the cable in the cable track.
 - Avoid the cables to get twined or twisted in the cable track, and also to have the cables move freely and do not tie them up. (Arrange the wiring so the cables are not to be pulled when bent.) Do not pile up cables. It may cause faster abrasion of the sheaths or cable breakage.



Note:

- When the cable is connected or disconnected, make sure to turn off the power to the controller. When the cable is connected or disconnected with the controller power turned ON, it might cause a malfunction of the actuator and result in a serious injury or damage to the machinery.
- When the connector connection is not correct, it would be dangerous because of a malfunction of the actuator. Make sure to confirm that the connector is connected correctly.



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