

ELECYLINDER®
e-Wiring System
On-Site Power Supply Unit



Reduces time spent on everything from design to maintenance!

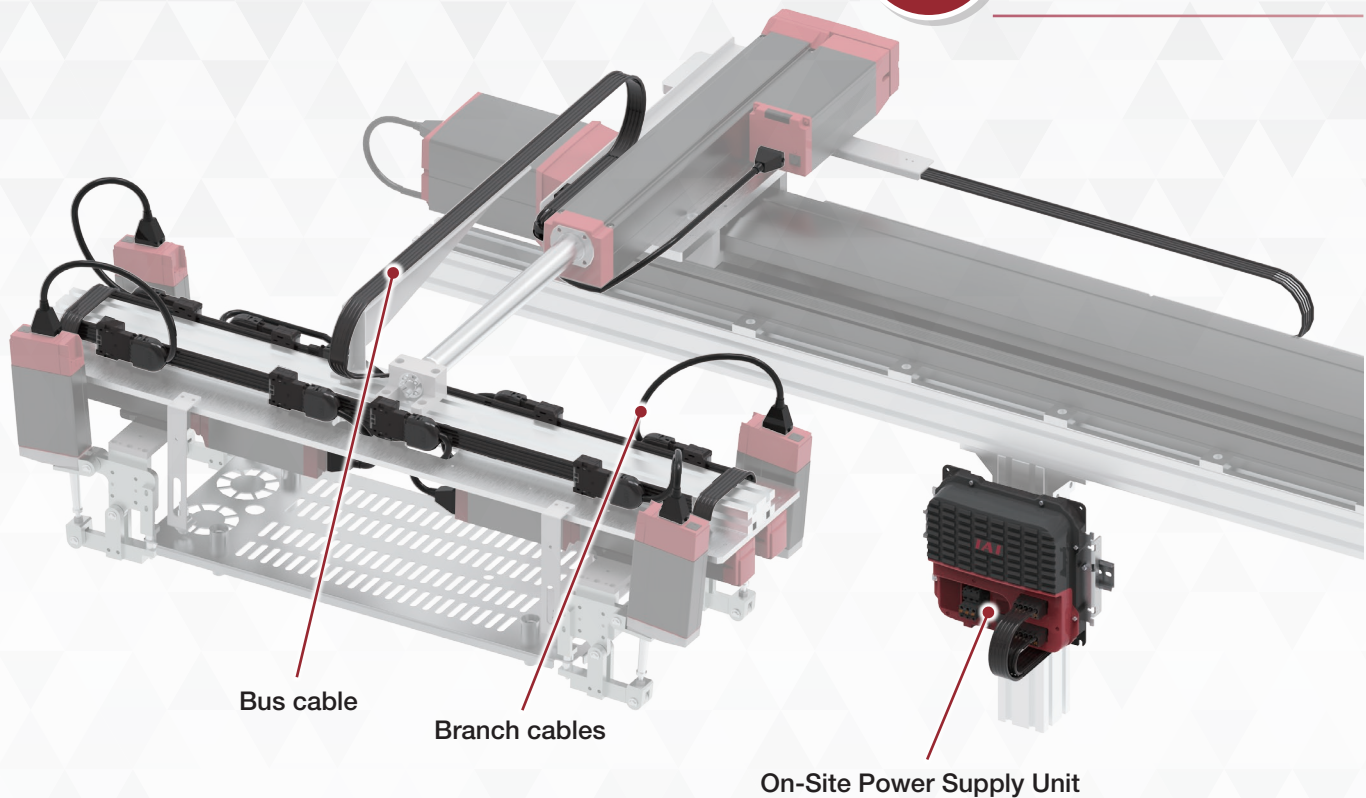
e-Wiring System

What is the e-Wiring System?

Run 1 dedicated cable (bus cable) and connect branch cables as needed to connect to the actuator. Power supply can be installed near the equipment.

POINT

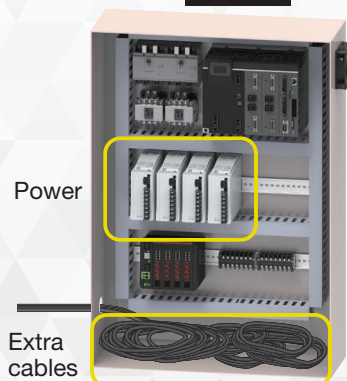
No cable carrier needed!



POINT

Control panel can be made smaller!

BEFORE



AFTER



e-Wiring System

- Because power supply can be installed on site (close to equipment), installation space is not required.
- Because there are no extra cables, cable space is not required.

*Power supplies can be added outside the control panel as well if needed.

Design

BEFORE

Cable length must be selected for each actuator.

AFTER

Cable length selection is not required.



Assembly

BEFORE

Because the wiring is long, cable wiring processing is difficult.

AFTER

Wiring can be done with connectors, with cables cut to the required length.

Wiring work time approx. 64% shortened

*Values based on our wiring work

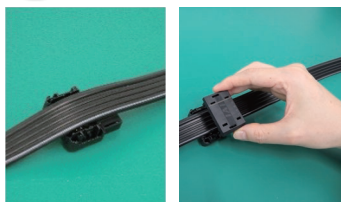
● Connectors can be pressure-welded in 3 steps!

1 Cut



Cut the flat cable to the required length.

2 Set



Mount the pressure-welded connector on the flat cable.

3 Pressure weld



Pressure-weld the connector with pliers.



Complete

Pressure welding video here ► intelligentactuator.com/how-to-ew-cpw



Maintenance

BEFORE

Because cable lengths differ for each actuator, multiple models of maintenance cables must be kept in stock.

AFTER

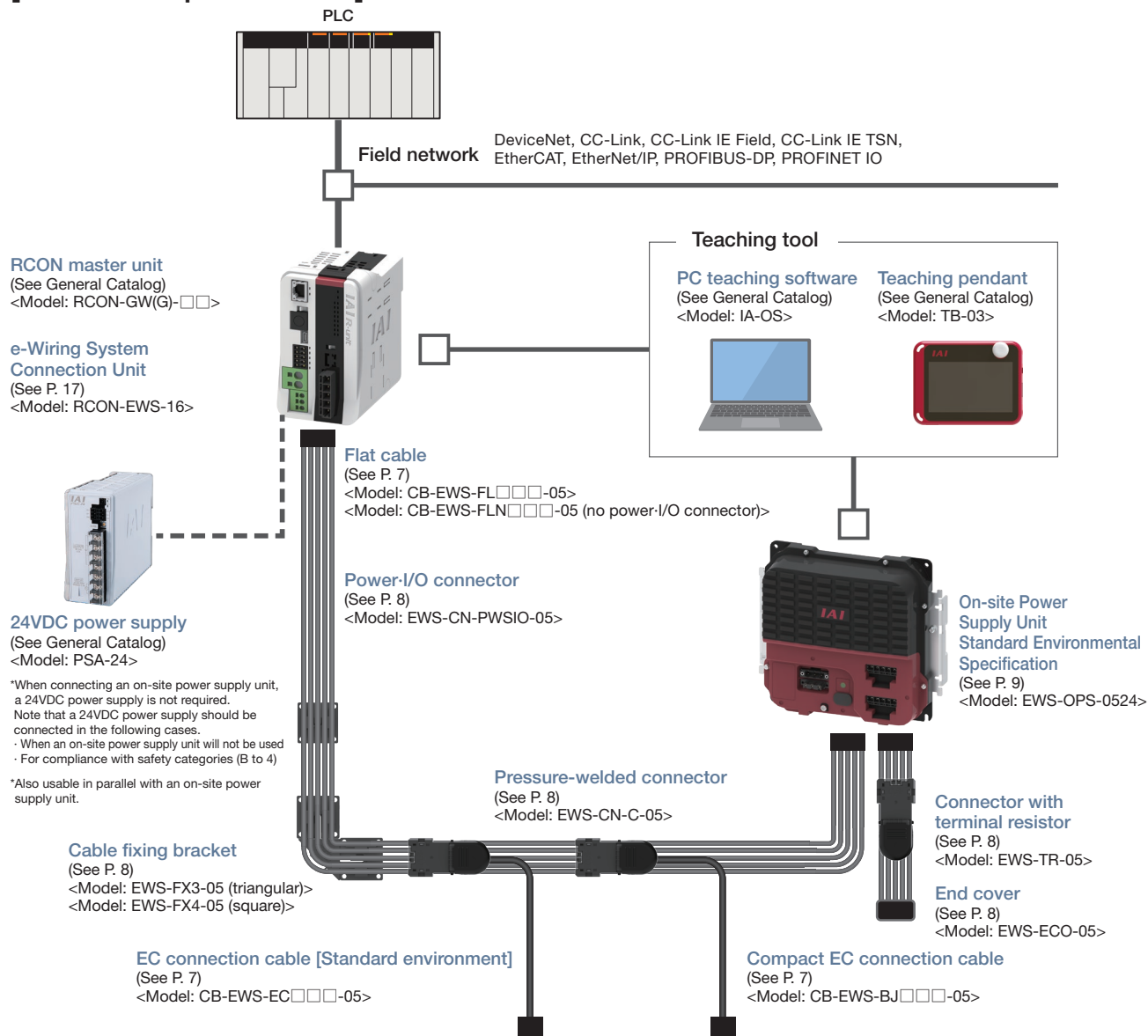
Bus cable is cut for use. Branch cables come in 3 types.

Inventory control is easy!

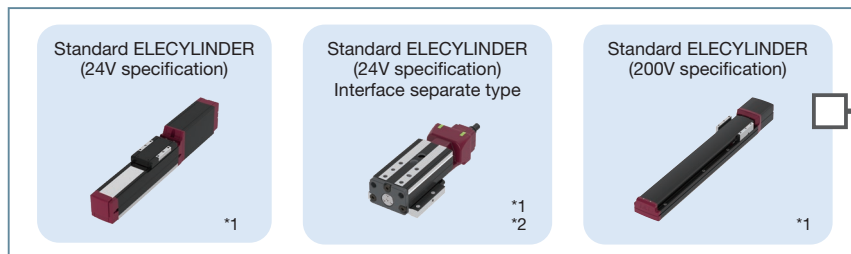


Because wiring can be used efficiently, the end result is **conserved resources and reduced costs.**

[Standard Specification]



Connectable actuators

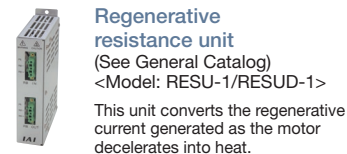
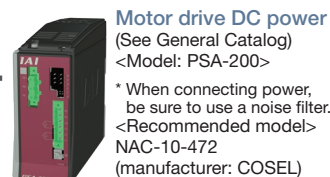


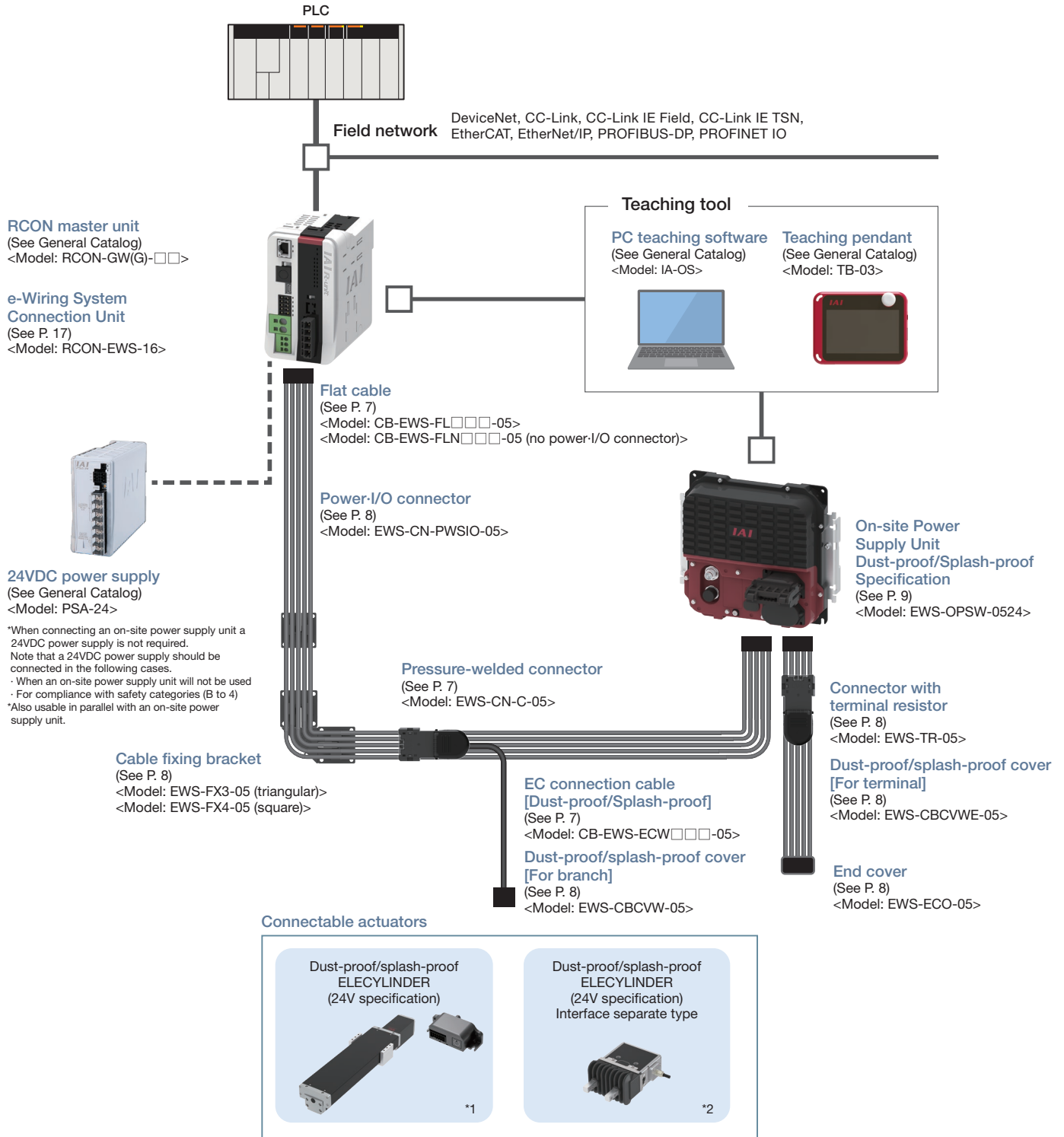
*1 For wiring prepared by the customer, see P. 7.

*2 For wireless connector or wiring prepared by the customer, an interface box 2 is required. See P. 5.

* When extending and connecting a flat cable, purchase the product listed below from the manufacturer.

- **Extension connector**
831-1105/320-000 (manufacturer: WAGO)
831-1205 (manufacturer: WAGO)



[Dust-proof/Splash-proof Specification]

*1 An interface box and conversion cable are required. Refer to P. 5.

*2 For wireless connector, an interface box 2 is required. Refer to P. 5.

* When extending and connecting a flat cable, purchase the product listed below from the manufacturer.

● **Extension connector**

831-1105/320-000 (manufacturer: WAGO)

831-1205 (manufacturer: WAGO)

Connection Restrictions/Precautions

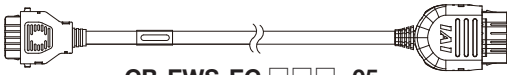
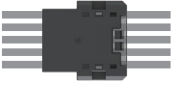
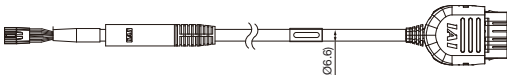
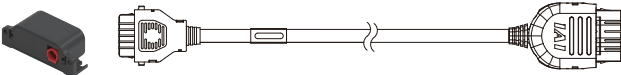
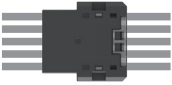
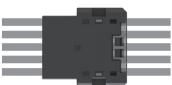
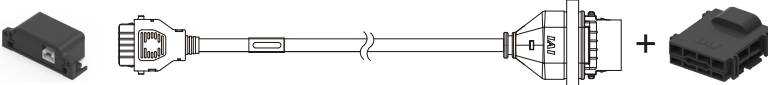
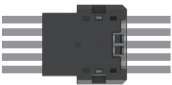
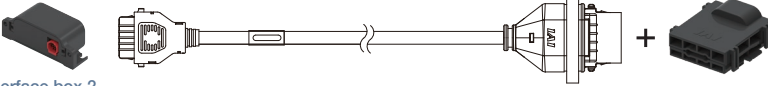
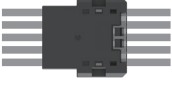
■ Actuators Connectable with the e-Wiring System Connection Unit

Connectable actuators	Connection pattern	Additional information
Standard ELECYLINDER (ACR specification)*1	① or ②	When the branch cable length is not long enough, connect with ②.
Interface separate type ELECYLINDER (ACR specification)	③ or ④ or ⑤	For wireless connection, select ④. When the branch cable length is not long enough, select ⑤.
Dust-proof/splash-proof specification ELECYLINDER (ACR specification)	⑥ or ⑦	When connecting a vertical gripper, select ⑦.

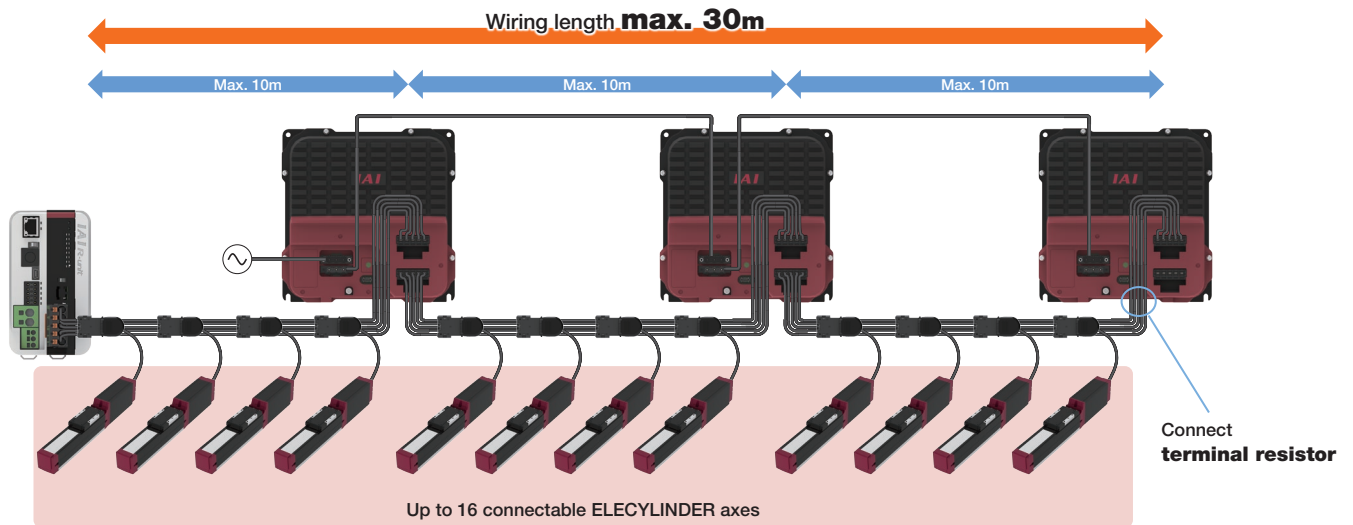
*1 Select 0 for power · I/O cable length.

[Connection pattern between actuator cable and flat cable]

When connecting, prepare all the parts listed.

Connecting actuator	Connection	Flat cable part
① 	 CB-EWS-EC □□□ -05 (cable length options: 0.5m, 1m)	 Pressure-welded connector EWS-CN-C-05
② 	 Power · I/O connector *Included with branch cable side connector Wires provided by customer *For wiring, refer to the CB-EWS-EC□□□-05 wiring diagram on P. 7. Branch cable side connector EWS-CN-S-0524 Branch cable side connector terminal block cover EWS-CNCV-05 *Prepare as needed	 Pressure-welded connector EWS-CN-C-05
③ 	 CB-EWS-BJ □□□ -05 (cable length options: 0.5m, 1m)	 Pressure-welded connector EWS-CN-C-05
④ 	 Interface box 2 EC-CVNWL-CB-ACR CB-EWS-EC □□□ -05 (cable length options: 0.5m, 1m)	 Pressure-welded connector EWS-CN-C-05
⑤ 	 Interface box 2 EC-CVNWL-CB-ACR Power · I/O connector *Included with branch cable side connector Wires provided by customer *For wiring, refer to the CB-EWS-EC□□□-05 wiring diagram on P. 7. Branch cable side connector EWS-CN-S-0524 Branch cable side connector terminal block cover EWS-CNCV-05 *Prepare as needed	 Pressure-welded connector EWS-CN-C-05
⑥ 	 Interface box 2 ECW-CVN(W)L-CB-ACR *Included with actuator CB-EWS-ECW □□□ -05 (cable length options: 1m to 10m, 1m intervals) Dust-proof/splash-proof cover EWS-CBCVW-05	 Pressure-welded connector EWS-CN-C-05
⑦ 	 Interface box 2 EC-CVNWL-CB-ACR CB-EWS-ECW □□□ -05 (cable length options: 1m to 10m, 1m intervals) Dust-proof/splash-proof cover EWS-CBCVW-05	 Pressure-welded connector EWS-CN-C-05

- Up to 16 ELECYLINDER axes can be connected.
- The maximum cable length from the e-Wiring System connected unit (RCON-EWS) to the ELECYLINDER is 30m. Connect an on-site power supply unit (EWS-OPS/OPSW) at a maximum of every 10m.
- For the (compact) EC connection cable branching from the flat cable to the ELECYLINDER, 1m or below is recommended. If the cable length is insufficient due to the use of a cable conveyor for movable applications, etc., use 3m or below as an installation guideline.
- Be sure to use a connector with terminal resistor (EWS-TR-05) after the final connected ELECYLINDER.
Connection position: Connect to the flat cable with a pressure-welded connector



- Calculate the total number of on-site power supply units from the total power capacity of the connected ELECYLINDER units. Confirm the ELECYLINDER power capacity from the table below.
For the number of on-site power supply units, see P. 9.

(24V specification ELECYLINDER)

Item		Series	Actuator/connection unit			Power supply current	
			Type		Motor type	Rated	Max.
Motor power capacity (per 1-axis actuator)	24V specified motor	EC	RR10	Ø86P	-	-	5.7A
			RR8	□60P	-	-	5.7A
			S8/B8S/RTC18	□56SP	-	-	5.7A
			GRST7		-	2.3A	3.9A
			S7/R7/RR7/B7	□56	Power-saving setting disabled	2.3A	3.9A
					Power-saving setting enabled	-	1.9A
			GRST6/GRTR14		-	2.3A	3.9A
			S6/WS12/R6/RR6/B6/GRTR14/ RTC12/SRG15/ST15	□42	Power-saving setting disabled	2.3A	3.9A
					Power-saving setting enabled	-	1.9A
			SRGC9/STC9		-	-	1.9A
			CRP5/CGD5/CTC5	Ø42	-	1.5A	3.3A
			S4/WS10/RR4/SG11/RP5/ GD5/TC5/TW5/ST11	□35	Power-saving setting disabled	2.3A	3.9A
					Power-saving setting enabled	-	1.9A
			CRP3/CGD3/CTC3	Ø30	-	1.1A	2.5A
			S3/RR3		-	-	1.9A
			RP4/GS4/GD4/TC4/TW4/SG9/ RTC9/GRB10/GRB13/ST9	□28	-	-	1.7A
			GRBP10/GRBP13/GRC7/GRST3/RTB4		-	1.2A	1.7A
			GRBB		-	-	0.7A
			Wire controller/S2/RR2/RP3/ GD3/TC3/TW3/GRBP8/GRC6	□20	-	0.65A	0.95A
			SL3/GDS3/GDB3/T3	Ø20	-	0.44A	0.8A

e-Wiring System Product Models

Models

Purchase the parts required for system configuration individually.

[Cables]

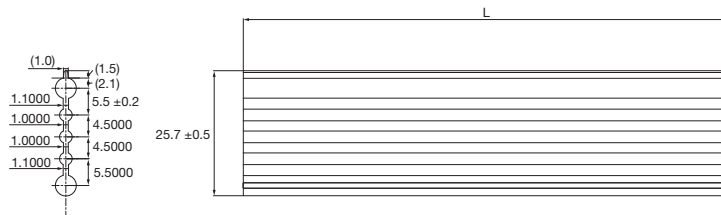
● Flat cable



Model **CB-EWS-FL** **-05/CB-EWS-FLN** **-05**

*Please indicate the cable length (L) in .
Available: 10m / 30m / 50m (e.g., 100 = 10m)

*Power I/O connector not included.



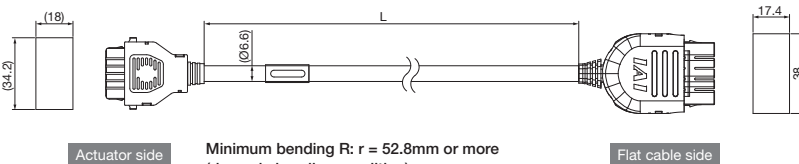
Minimum bending R: $r = 33\text{mm}$ or more
*Robot cable is standard.



● EC connection cable (standard environment)

Model **CB-EWS-EC** **-05**

*Please indicate the cable length (L) in .
Available: 0.5m / 1m (e.g., 010 = 1m)



Actuator side

Minimum bending R: $r = 52.8\text{mm}$ or more
(dynamic bending condition)
*Robot cable is standard.

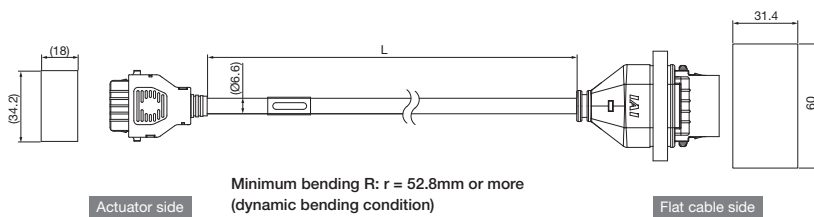
Flat cable side

Color	Signal name	Pin No.	Pin No.	Signal name	Color
Black (AWG18)	0V	A1	5	0V	Black (AWG18)
Red (AWG18)	24V (MP)	B1	1	24V (MP)	Red (AWG18)
Sky blue (AWG22)	24V (CP)	A2	3	24V (CP)	Sky blue (AWG22)
	IN0	B3			
	IN1	B4			
	IN2	B5			
Green/Yellow (AWG26)	SD+	B6	2	SD+	Green/Yellow (AWG26)
Light gray (AWG26)	SD-	A6	4	SD-	Light gray (AWG26)
	OUT0	A3			
	OUT1	A4			
	OUT2	A5			
	BKRLS	B2			

● EC connection cable (dust-proof/splash-proof)

Model **CB-EWS-ECW** **-05**

*Please indicate the cable length (L) in .
Available: Min. 1m, Max. 10m (e.g., 010=1m)



Actuator side

Minimum bending R: $r = 52.8\text{mm}$ or more
(dynamic bending condition)
*Robot cable is standard.

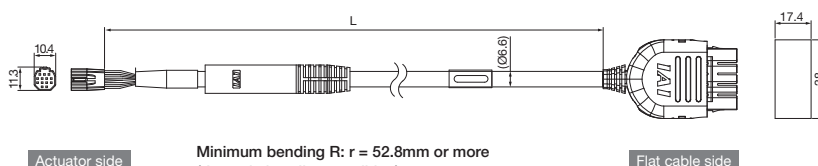
Flat cable side

Color	Signal name	Pin No.	Pin No.	Signal name	Color
Black (AWG18)	0V	A1	5	0V	Black (AWG18)
Red (AWG18)	24V (MP)	B1	1	24V (MP)	Red (AWG18)
Sky blue (AWG22)	24V (CP)	A2	3	24V (CP)	Sky blue (AWG22)
	IN0	B3			
	IN1	B4			
	IN2	B5			
Green/Yellow (AWG26)	SD+	B6	2	SD+	Green/Yellow (AWG26)
Light gray (AWG26)	SD-	A6	4	SD-	Light gray (AWG26)
	OUT0	A3			
	OUT1	A4			
	OUT2	A5			
	BKRLS	B2			

● Compact EC connection cable

Model **CB-EWS-BJ** **-05**

*Please indicate the cable length (L) in .
Available: 0.5m / 1m (e.g., 010 = 1m)



Actuator side

Minimum bending R: $r = 52.8\text{mm}$ or more
(dynamic bending condition)
*Robot cable is standard.

Flat cable side

Color	Signal name	Pin No.	Pin No.	Signal name	Color
Black (AWG18)	0V	2	5	0V	Black (AWG18)
Red (AWG18)	24V (MP)	1	1	24V (MP)	Red (AWG18)
Sky blue (AWG22)	24V (CP)	12	3	24V (CP)	Sky blue (AWG22)
	IN0	3			
	IN1	4			
	SD+	6	2	SD+	Green/Yellow (AWG26)
	SD-	10	4	SD-	Light gray (AWG26)
	OUT0	7			
	OUT1	8			
	OUT2	9			
	BKRLS	11			
	FG	13			

[Connectors]

● Pressure-welded connector



■ Model **EWS-CN-C-05**



● Branch cable side connector

■ Model **EWS-CN-S-0524**

*Power · I/O connector is included



● Power · I/O connector

■ Model **EWS-CN-PWSIO-05**



● Connector with terminal resistor



■ Model **EWS-TR-05**



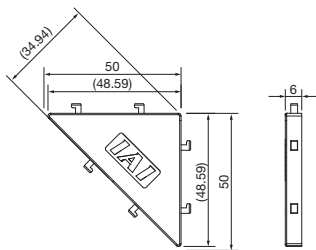
[Utilities]

● Cable fixing bracket



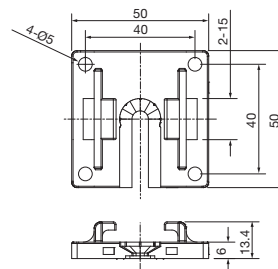
(triangular)

■ Model **EWS-FX3-05**



(square)

■ Model **EWS-FX4-05**



● Dust-proof/splash-proof cover

(for branch)

■ Model **EWS-CBCVW-05**



(for terminal)

■ Model **EWS-CBCVWE-05**



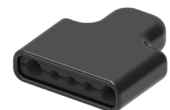
● Cable cutter

■ Model **EWS-CBC-05**



● End cover

■ Model **EWS-ECO-05**



● Branch cable side connector terminal block cover

■ Model **EWS-CNCV-05**



On-site Power Supply Unit

Install a 24V power supply onsite
(to equipment) to help resolve
space issues inside control panels!



Just connect the e-Wiring System to enable
ELECTYLINDER address setting without tools.

USB connection to teaching tool is possible.

Parallel connection prevents power drop.

Models

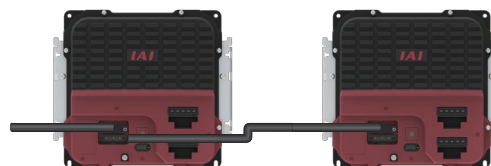
Name		Model
Standard Environmental Specification	Without DIN rail	EWS-OPS-0524
	With DIN rail	EWS-OPS-0524-DN
Dust-proof/Splash-proof Specification	Without DIN rail	EWS-OPSW-0524
	With DIN rail	EWS-OPSW-0524-DN

Allowable Power with Parallel Connection

Multiple power supply units can be connected in parallel.

Confirm the ELECTYLINDER power capacity and select the number of connected power supply units.

No. of connected units	Rated current [A]	Peak current [A]
1	12.5	25.0
2	22.5	45.0
3	30.0	52.5
4	40.0	70.0



Selection example:

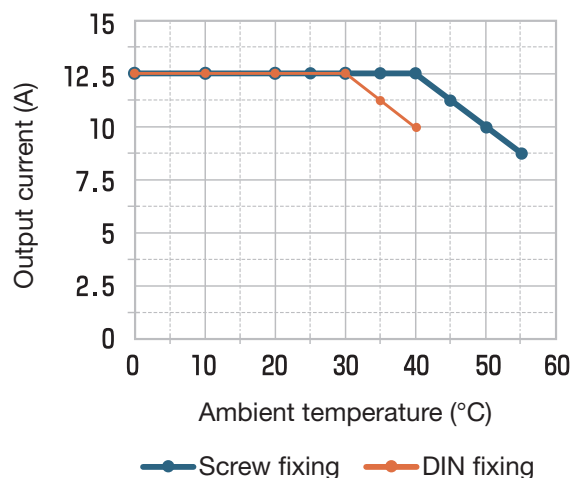
When connecting 4 ELECTYLINDER axes (EC-S6 x 2 axes, EC-RR8 x 2 axes)
 $2.3A + 2.3A + 5.7A + 5.7A = 16A \Rightarrow$ Connect 2 power supply units

Specifications Table

Installation environment

Item		Specification
Ambient operating temperature		0 to +55°C (with derating)
Ambient operating humidity		5 to 85% RH / No condensation or freezing
Ambient storage temperature		-20 to +70°C
Atmosphere		No corrosive gas or excessive dust
Altitude		2000m
Vibration resistance		Acceleration: 2G (20[m/s ²]), Frequency: 5 to 2000[Hz], Sweep cycle: 1[oct/min], Number of sweeps: 2 [returns] Excitation direction: XYZ
Package drop		Drop height: 800mm / 1 corner, 3 edges, 6 faces
Overvoltage category		III
Pollution degree	Standard Environmental Specification	2
	Dust-proof/Splash-proof Specification	2
Installation location		Indoors
Ingress protection	Standard Environmental Specification	IP20
	Dust-proof/Splash-proof Specification	IP54
Generated heat		37W (100VAC 300W continuous rated) 26W (100VAC 300W continuous rated)
Cooling method		Natural air cooling
Mass		1.9kg
Overseas standard compliance	Updated RoHS Directive	✓
	CE Marking	To be acquired
	UL Standard	✓
	TSCA	✓

Reduce the output power in accordance with the following derating curve at high temperatures.



Specifications Table

Input/Output specifications

Item	Specification		Conditions, etc.
Power input voltage range	100 to 230VAC $\pm 10\%$		
Power output voltage range	100 to 230VAC $\pm 10\%$		Depends on input voltage
Power input current	100VAC	3.4A or less	Continuous rated output 300W
	200VAC	1.7A or less	Continuous rated output 300W
Power input current (with 4 units operating in parallel)	100VAC	Max. 10.8A	
	200VAC	Max. 5.4A	
Power output current (with 4 units operating in parallel)	100VAC	Max. 8.1A	AC line output current value between these products with 4 units operating in parallel.
	200VAC	Max. 4.05A	
Power frequency range	50/60Hz		
Inrush current ^{*1}	100VAC	18A (typ)	At cold start (25°C)
	200VAC	35A (typ)	
	100VAC	27A (typ)	At cold start (40°C)
	200VAC	53A (typ)	
Momentary power failure resistance	50Hz	20ms	
	60Hz	16ms	
Electric shock protection mechanism	Class I		
Efficiency	100VAC	89% or more	Continuous rated output 300W
	200VAC	92% or more	
Power factor	100VAC	99% (typ)	Continuous rated output 300W
	200VAC	90% (typ)	

*1 The pulse width of flowing inrush current is less than 5ms. During parallel operation, inrush current increases according to the number of units. Check the characteristics thoroughly before selection to prevent the breaker from tripping due to inrush current.

Output specification

Item	Specification		Conditions, etc.
Rated output voltage	24V		
Output voltage range ^{*1}	24V $\pm 10\%$		
Continuous rated output 300W	12.5A		
Peak output ^{*2}	25A (600W)		
Initial voltage at shipping	25.5V (typ)		No load
Ripple voltage	0 to 55°C	120mV or less	0A to 13.8A
	-10 to 0°C	160mV or less	
Ripple noise voltage	0 to 70°C	150mV or less	0A to 13.8A
	-10 to 0°C	180mV or less	
Startup time	1 sec or less		Rated input/continuous rated output 330W
Output retention time	20ms or more		Rated input/continuous rated output 300W
	12ms or more		Rated input/continuous rated output 330W

*1 In order to enable parallel operation, this power supply unit can vary the output voltage according to the load.

Therefore, the power supply unit is dedicated for IAI controllers. Refer to the instruction manual for the characteristics of output voltage by load.

*2 For the peak current output conditions, refer to the instruction manual.

Insulation specifications

Item	Conditions	Specification
Dielectric withstand voltage	AC input-DC output	3,600VAC 1 min
	AC input-FG	2,250VAC 1 min
	DC output-FG	500VAC 1 min
Insulation resistance	AC input-DC output	-
	AC input-FG	-
	DC output-FG	-
Leakage current ^{*1}	100VAC	0.40mA typ
	200VAC	0.75mA typ

*1 Stipulations for leakage current in individual power supply units.

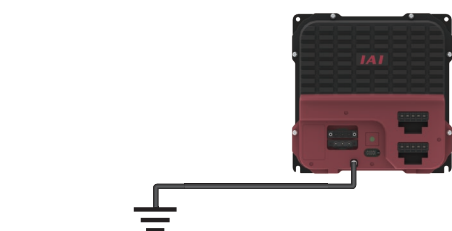
Protection function specifications

Item		Specification
Overcurrent protection	Operation	Cuts off output when current exceeding peak output flows (including short-circuit status)
	Protection method	Drop type intermittent operation
	Recovery	Automatic recovery
Overheat protection	Operation	Cuts off output when overheating is detected via temperature sensor on circuit board
	Protection method	Output stop (latch)
	Recovery	AC power restart
Overload protection	Operation	Cuts off output when continuously operating at or above continuous rated output
	Protection method	Output voltage drop
	Recovery	Automatic recovery
Overload protection Latch stop	Operation	Cuts off output when continuous output current 17A or above, output voltage 20V or below for 20 sec or more
	Protection method	Output stop (latch)
	Recovery	AC power restart
Peak output Exceeded protection	Operation	Output current 25A or above for 15 sec or more continuously
	Protection method	Output stop (latch)
	Recovery	AC power restart
Overvoltage protection	Operation	Cuts off output when output voltage reaches 30V or above
	Protection method	Output stop (latch)
	Recovery	AC power restart
Input low voltage protection	Operation	Cuts off output when input voltage falls below 82VAC
	Protection method	Output stop
	Recovery	Automatic recovery

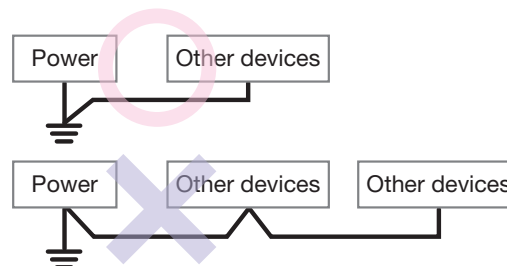
Installation and heat dissipation

Item		
Installation	Installation direction	Vertical, horizontal, ceiling mount
	Installation method	Screw mounting or DIN rail mounting
	Installation conditions	● Design and manufacture for an ambient temperature of 0 to 55°C, with consideration for cooling, etc. ● Mount EWS-OPS/OPSW on a metal surface or DIN rail. If mounted on a highly insulated surface such as wood or plastic, the specifications may not be satisfied.
Grounding		Independent grounding via class D grounding (*1) (risk of electric shock if grounding is incomplete)
Peripheral device configuration		See figures and peripheral device configuration

*1 Perform grounding reliably as in the figure below, in order to prevent electric shock and static electricity, improve noise resistance performance, and suppress unneeded radiance.



Grounding resistance: 100Ω or less
(Class D grounding construction)



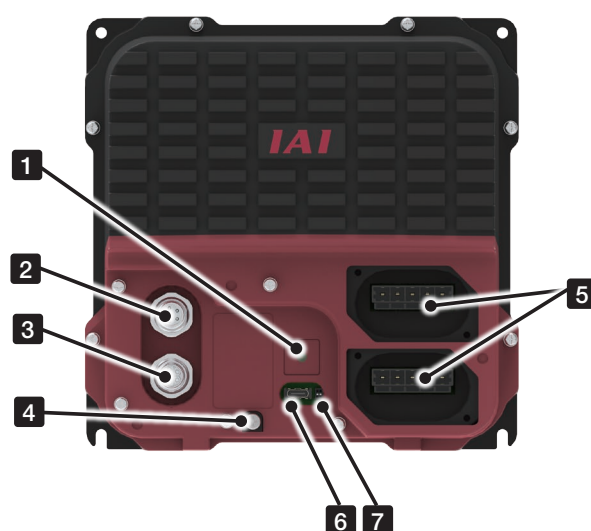
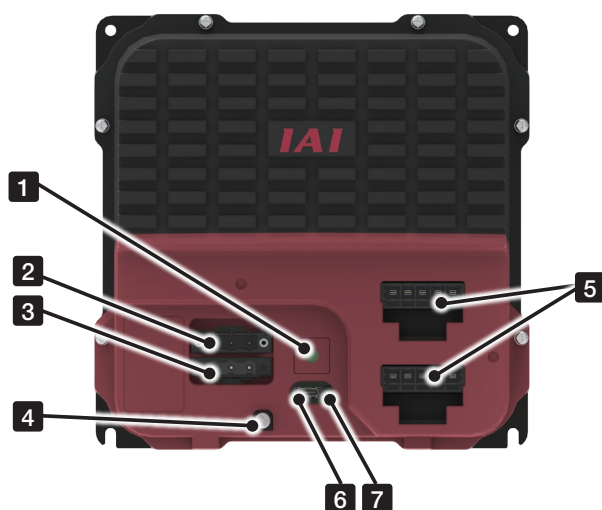
Install ground wires for each power supply, not in common or linked with other devices.

	Standard Environmental Specification	Dust-proof/Splash-proof Specification
Without DIN rail		
With DIN rail		

Part Names

<Standard Environmental Specification>

<Dust-proof/Splash-proof Specification>



1 Status display LED

LED displaying operation status.

LED name	Display color	Description
POWER	Green	Lit when power is turned on and CPU starts up. Blinks to indicate switching abnormalities.
ALARM	Red	Lit in alarm status

2 AC power interface (input)

Connector for AC power supply.

[Standard Environmental Specification]

Pin No.	Signal name	Description
1	L	AC power L-phase
2	N	AC power N-phase
3	PE	Protective grounding wire

Body side connector: GMSTBV 2,5 HC/ 3-GF-7,62 BK (Phoenix Contact)

Cable connector: EWS-CN-PSACI (accessory)

[Dust-proof/Splash-proof Specification]

Pin No.	Signal name	Description
1	L	AC power L-phase
2	L	AC power L-phase
3	N	AC power N-phase
4	N	AC power N-phase
PE	PE	Protective grounding wire

Body side connector:

SACC-CI-M12MSK-4PE-L180 THR T (Phoenix Contact)

Cable connector:

Prepare the separately sold options below as needed. See P. 16 for details.

· Dust/splash-proof specification AC power cable: CB-EWS-PSWAC□□□

· Dust/splash-proof specification AC power connector: EWS-CN-PSWAC

3 AC power interface (output)

Connector for AC power supply to 2nd power supply and beyond.

[Standard Environmental Specification]

Pin No.	Signal name	Description
1	PE	Protective grounding wire
2	N	AC power N-phase
3	L	AC power L-phase

Body side connector: GICV 2,5 HC/ 3-GF-7,62 BK (Phoenix Contact)

Matching side connector: EWS-CN-PSACO (option sold separately)

[Dust-proof/Splash-proof Specification]

Pin No.	Signal name	Description
1	L	AC power L-phase
2	L	AC power L-phase
3	N	AC power N-phase
4	N	AC power N-phase
PE	PE	Protective grounding wire

Body side connector:

SACC-CI-M12MSK-4PE-L180 THR T (Phoenix Contact)

Cable connector:

Prepare the separately sold options below as needed. See P. 16 for details.

· Dust/splash-proof specification AC power cable: CB-EWS-PSWAC□□□

· Dust/splash-proof specification AC power connector: EWS-CN-PSWAC
(when not using a connector)

· AC power cap: EWS-CAP-ACP

4 Ground terminal

Terminal for connection of the ground wire preventing electric shock and noise.

Be sure to perform grounding.

5 Power I/O interface (input/output)

Connector for ELECYLINDER.

Top is input and bottom is output.

Signals are common for input and output.

Pin No.	Signal name	Description
1	0V	GND
2	SD-	Sending/receiving differential -
3	CP (24V)	Control power
4	SD+	Sending/receiving differential +
5	MP (24V)	Motor power

Body side connector:

PCV 4/ 5-G-6,35 P26 THR (Phoenix Contact)

Cable connector:

[Standard environmental specification]

Input: EWS-CN-PWSIO-05 (accessory)

Output: EWS-CN-PWSIO-05 (option sold separately)

[Dust-proof/splash-proof specification]

Input: EWS-CN-PWSIO-05 (accessory)

EWS-PSCVW-05 (accessory)

Output: EWS-CAP-PWSIOW (accessory)

*When wiring the output side as well, prepare the same parts as the input accessories separately.

6 USB connector

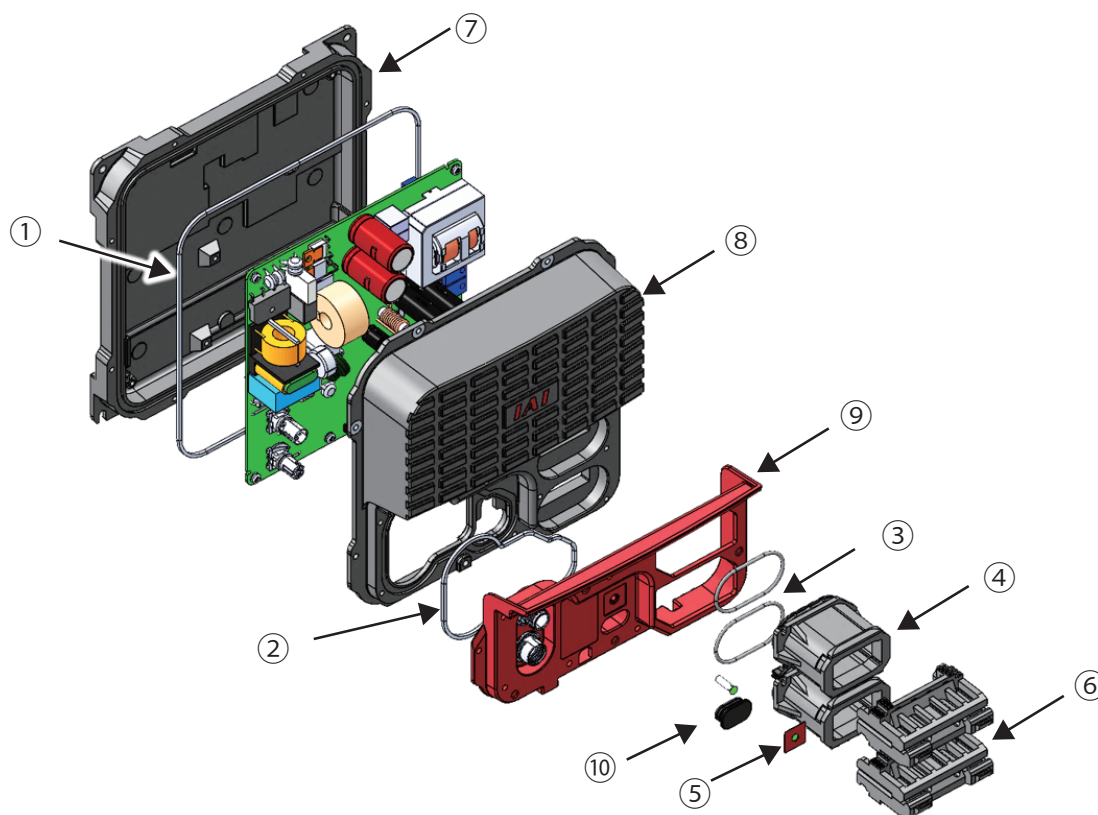
Connector for PC teaching software cable.

7 Address switch

Setting switch for communication addresses.

When connecting multiple units, set so that addresses do not overlap.

Switch setting		Address
1bit	0bit	
OFF	OFF	0
OFF	ON	1
ON	OFF	2
ON	ON	3

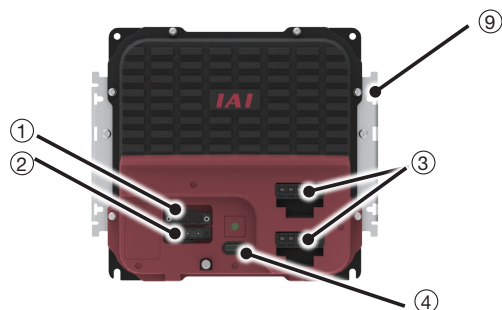


Item	Material
① Gasket 1	NBR (nitrile rubber)
② Gasket 2	NBR (nitrile rubber)
③ O-ring	Silicone
④ Power · I/O connector splash-proof cover	PBT (polybutylene terephthalate)
⑤ Waterproof sheet	PET (polyester)
⑥ Power · I/O connector splash-proof cover	PBT (polybutylene terephthalate)
⑦ Bottom case	Aluminum
⑧ Top case	Aluminum
⑨ Front cover	PBT (polybutylene terephthalate)
⑩ USB interface rubber cap	NBR (nitrile rubber)

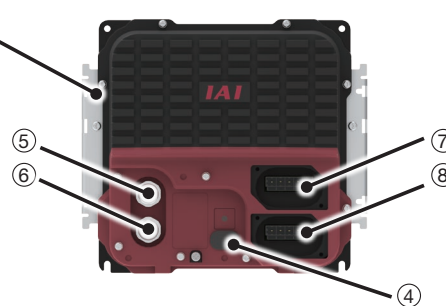
Options and Maintenance Parts

For parts which must be procured separately or accessories which have been lost, purchase as individual items.
The numbers below indicate the connection locations.

<Standard Environmental Specification>



<Dust-proof/Splash-proof Specification>



① AC power connector (input)

■ Model **EWS-CN-PSACI**

⑤⑥ Dust-proof/splash-proof specification
AC power connector (for linked wiring)

■ Model **EWS-CN-PSWAC**

*UL certification for this part is pending.
(as of November 2025)

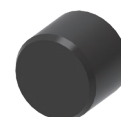


② AC power connector (output)

■ Model **EWS-CN-PSACO**

⑥ AC power cap
(dust-proof/splash-proof specification)

■ Model **EWS-CAP-ACP**



③⑦⑧ Power-I/O connector

■ Model **EWS-CN-PWSIO-05**

⑦⑧ Power-I/O connector
splash-proof cover

■ Model **EWS-PSCVW-05**



④ USB interface rubber cap

■ Model **EWS-CAP-USB**

⑧ Power · I/O cap
(dust-proof/splash-proof specification)

■ Model **EWS-CAP-PWSIOW**

⑤⑥ Dust-proof/splash-proof specification
AC power cable

■ Model **CB-EWS-PSWAC**

*Please indicate the cable length in .
Available: 3m / 5m / 10m (e.g., 030 = 3m)



⑨ DIN rail mounting bracket

■ Model **EWS-OPS-AT-D**



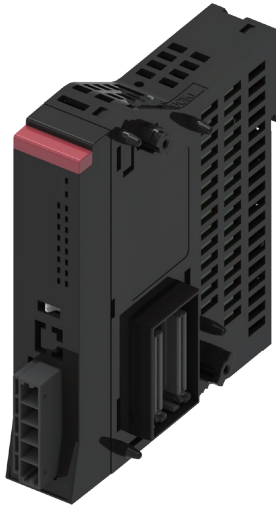
(accessory: screws)

e-Wiring System Connection Unit

When connecting the ELECYLINDER in a configuration using the e-Wiring System, this unit connects to the R-unit.

It allows up to 16 ELECYLINDER axes to be connected to each unit/R-unit.

For the R-unit (RCON) specifications, refer to the General Catalog.



Model
RCON-EWS-16

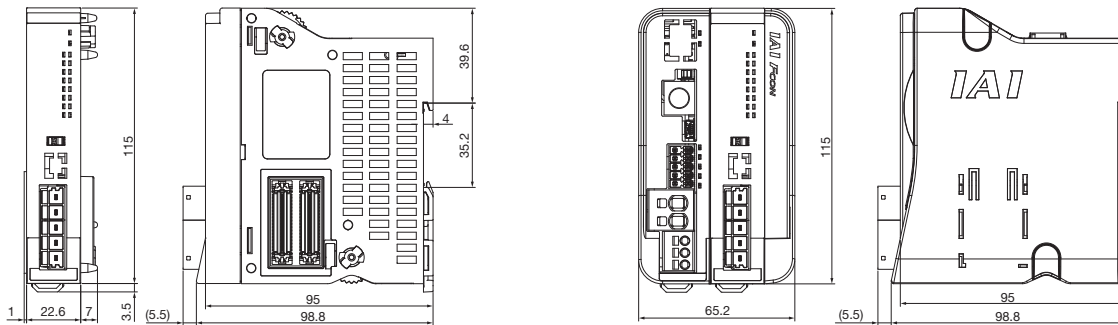
Specifications

Power	24VDC $\pm 10\%$
Control power	0.1A
Ambient operating temperature & humidity	0 to 55°C, 85%RH or less (no condensation or freezing)
Operating atmosphere	No corrosive gas or excessive dust
Ingress protection	IP20
Mass	120g
External dimensions	W22.6mm x H115mm x D95mm
Overseas standard compliance	Updated RoHS Directive, CE marking, UL Standard, TSCA
Accessories	Power-I/O connector (EWS-CN-PWSIO-05)

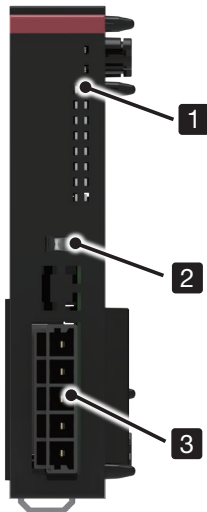
External Dimensions



(Example of combination with RCON)



Part Names



1 Status display LED

LED displaying operation status.

Refer to the instruction manual for status details.

2 Axis address setting switch

Switch for setting ELECYLINDER axis addresses.

Refer to the instruction manual for the usage method.

3 Power I/O interface

Connector for the e-Wiring System.

Pin No.	Signal name	Description
1	0V	GND
2	SD-	Sending/receiving differential -
3	CP (24V)	Control power
4	SD+	Sending/receiving differential +
5	MP (24V)	Motor power

Body side connector:
PC 4/ 5-G-6,35 P26 THR (Phoenix Contact)

Cable connector:
EWS-CN-PWSIO-05 (accessory)

IAI America, Inc.

USA Headquarters & Western Region:

2690 W. 237th Street, Torrance, CA 90505, USA TEL: +1-310-891-6015

Midwest Branch Office:

110 East State Parkway, Schaumburg, IL 60173, USA TEL: +1-847-908-1400

Southeast Branch Office:

1220 Kennestone Circle, Suite 108, Marietta, GA 30066, USA TEL: +1-678-354-9470

www.intelligentactuator.com

IAI Industrieroboter GmbH

Ober der Röth 4, D-65824 Schwalbach am Taunus, Germany

IAI Robot (Thailand) Co., Ltd.

825 Phairojkijja Tower 7th Floor, Debaratana Rd.,
Bangna Nuea, Bangna, Bangkok 10260, Thailand

IAI (Shanghai) Co., Ltd.

SHANGHAI JIAHUA BUSINESS CENTER A8-303,
808 Hongqiao Rd. Shanghai 200030, China

IAI Group Headquarters and Main Factory:

1210 Iharacho, Shimizu-ku, Shizuoka-shi, Shizuoka, 424-0114, JAPAN