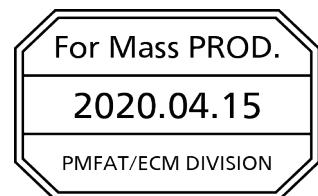


Product No. and Name (This document is applied to the following products.)

Product No	Product Name
WEGN5512	INITIO SERIES Switch "C"3-way, 1-Device, Quick Connect Terminal, 16 AX 250 V ~
WEGN5522	INITIO SERIES Switch "C"3-way, 2-Device, Quick Connect Terminal, 16 AX 250 V ~
WEGN5532	INITIO SERIES Switch "C"3-way, 3-Device, Quick Connect Terminal, 16 AX 250 V ~
WEGN5512B	INITIO SERIES Switch "C"3-way, 1-Device, Quick Connect Terminal, 16 AX 250 V ~ (Black)
WEGN5522B	INITIO SERIES Switch "C"3-way, 2-Device, Quick Connect Terminal, 16 AX 250 V ~ (Black)
WEGN5532B	INITIO SERIES Switch "C"3-way, 3-Device, Quick Connect Terminal, 16 AX 250 V ~ (Black)
WEGN5512H	INITIO SERIES Switch "C"3-way, 1-Device, Quick Connect Terminal, 16 AX 250 V ~ (Gray)
WEGN5522H	INITIO SERIES Switch "C"3-way, 2-Device, Quick Connect Terminal, 16 AX 250 V ~ (Gray)
WEGN5532H	INITIO SERIES Switch "C"3-way, 3-Device, Quick Connect Terminal, 16 AX 250 V ~ (Gray)



Product No.	Product Name	Rev.
WEGN5512 9 model numbers in total	INITIO SERIES Switch "C", 3 - way, 1-Device, Quick Connect Terminal, 16 AX 250 V ~	

Title	Product Specification	Page. 2 / 6
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## 2. TYPE

- 2-1 Rating : 16 AX 250 V ~
- 2-2 Contact method : Silver alloy – Silver alloy contact
- 2-3 Circuit : 3-way(Switch "C" / Pattern No.6 on IEC60669-1)
- 2-4 Terminal : Screwless terminal (Quick Connect terminal)

## 3. GUARANTEED QUALITY

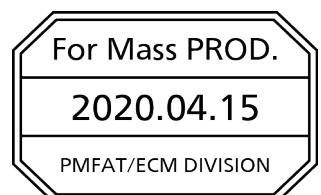
3-1 Shape and dimension : As per attached specification drawing

### 3-2 Performance

• Testing methods are based on IEC60669-1ed.4 (2017)  
 (INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC60669-1)  
 Switches for household and similar fixed-electrical installations–

• Following are tested at normal temperature  $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ .

Resistance to ageing	Temperature : $70^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 168 hours (7 days)
Resistance to humidity	Temperature : $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Humidity : 91 % to 95% for 48 hours (2 days)
Insulation resistance (Insulation tester, 500V DC)	<ul style="list-style-type: none"> <li>• Between all poles connected together and the body, with the switch in the "On" position. :Not less than <math>5\text{ M}\Omega</math></li> <li>• Between each pole in turn and metal foil in contacted to the body, with the switch in the "On" position. :Not less than <math>5\text{ M}\Omega</math></li> <li>• Between the terminals which are electrically connected together when the switch is in the "On" position, the switch being in the "Off" position. :Not less than <math>2\text{ M}\Omega</math></li> </ul>
Electric strength	<ul style="list-style-type: none"> <li>• Between all poles connected together and the body, with the switch in the "On" position. :2000 V for 1 minute</li> <li>• Between each pole in turn and metal foil in contacted to the body, with the switch in the "On" position. :2000 V for 1 minute</li> <li>• Between the terminals which are electrically connected together when the switch is in the "On" position, the switch being in the "Off" position. :2000 V for 1 minute</li> </ul>
Temperature rise	Test current : 20 A (2.5 mm <sup>2</sup> ) Not more than 45 K (terminals)



Product No. WEGN5512 9 model numbers in total	Product Name INITIO SERIES Switch "C", 3 – way, 1-Device, Quick Connect Terminal, 16 AX 250 V ~	Rev.
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Making and breaking capacity	<table border="1"> <thead> <tr> <th>Voltage(V)</th><th>Current(A)</th><th>Power Factor</th><th>Number of operations</th><th>Operation Rate (times/min.)</th></tr> </thead> <tbody> <tr> <td>275 V</td><td>20 A</td><td>0.3 ± 0.05</td><td>200</td><td>15</td></tr> <tr> <td>※ 250 V</td><td>19.2 A</td><td>—</td><td>200</td><td>15</td></tr> </tbody> </table> <p>※ tungsten filament lamp</p>	Voltage(V)	Current(A)	Power Factor	Number of operations	Operation Rate (times/min.)	275 V	20 A	0.3 ± 0.05	200	15	※ 250 V	19.2 A	—	200	15																
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SBL	170	9	200	40,000	15																											
Mechanical strength (impact-test)	Height of falls : 80 mm striking element : 250 g 9 hit points																															
Resistance to heat	Temperature : 100 °C ± 2 °C for 1 hour																															
Ball-pressure test	<ul style="list-style-type: none"> <li>The parts which is necessary to retain current-carrying parts. Temperature : 125 °C ± 2 °C Force : 20 N for 1 hour</li> <li>The parts which is not necessary to retain current-carrying parts. Temperature : 70 °C ± 2 °C or 40 °C ± 2 °C plus the highest teperature rise Force : 20 N for 1 hour</li> </ul>																															
Glow-wire test	<ul style="list-style-type: none"> <li>The parts which is necessary to retain current-carrying parts. Temperature : 850 °C for 30 seconds</li> <li>The parts which is not necessary to retain current-carrying parts. Temperature : 650 °C for 30 seconds</li> </ul>																															
Resistance of rusting	10 % solution of ammonium chloride in water for 10 minutes																															
Performance of screwless terminal	Wire pull test		30 N for 1 minute																													
	Wire circular-motion test		(10 ± 2) rev./min. for 15 minutes																													
	The voltage drop		Not more than 15 mV																													
	Terminal heat cycle		The difference between the voltage drop at 24 cycle and that at 192 cycle shall not exceed 22.5mV or two times the value measured after the24 cycle, whichever is the smaller.																													
	Bending strength		1.5 mm <sup>2</sup> : 0.5 N 2.5 mm <sup>2</sup> : 1 N The voltage drop : Not more than 25 mV																													

Note : In this specification, units are the International System of Units (SI) based on International Electrotechnical Commission(IEC).

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#### 4. ENVIRONMENTAL CONDITIONS

4-1 Ambient Temperature :  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$

##### 4-2 Installation

(1) This switch is allowed to use only in indoor office and the like.

(2) This switch is not allowed to use in workshop which is subject to get severe handling and in damp place open air and under the eaves.

#### 5. CONDITIONS FOR USE

##### 5-1 Connection System

###### (1) Applicable Wire

1.5 mm<sup>2</sup> — 4 mm<sup>2</sup>  
15 AWG — 12 AWG

Only Rigid (Solid or Stranded) Copper Conductor Type

Note: The 1 mm<sup>2</sup> solid wire can be used at only less than 6A.

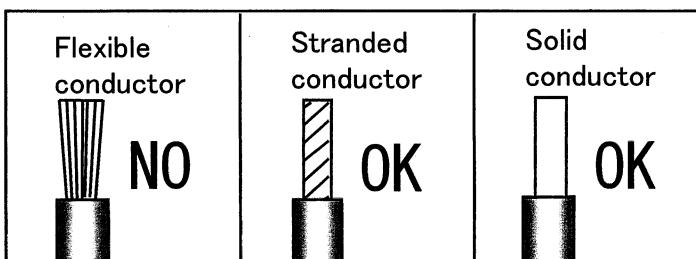
Do not connect 1 mm<sup>2</sup> solid wire to the terminal which has been connected with wire thicker than 1 mm<sup>2</sup> wire.

Only use the applicable wire (Thickness & Rated current).

Please make it sure before connecting to the terminal.

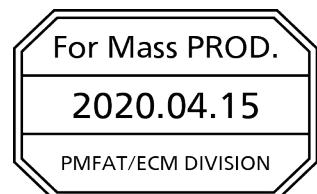
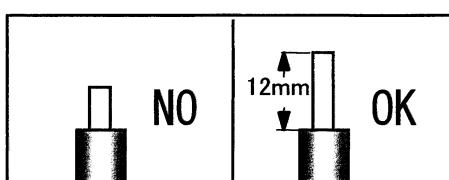
Warning: Never use other types of conductors than those specified above.

Or, it may result in heating or faulty contact in the wiring.



###### (2) Connection method

(i) Strip off the covering of the conductor by 12 mm by matching with the strip-off gauge provided on the rear side of the switch.



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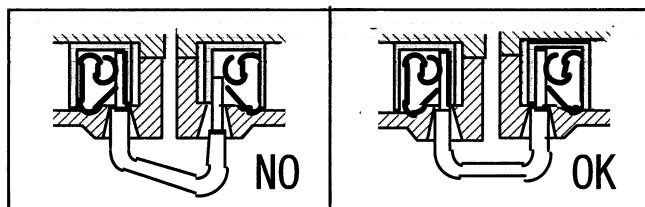
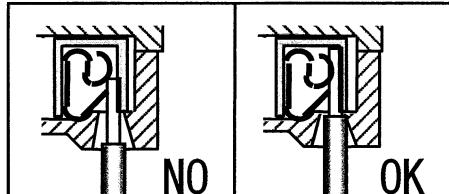
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(ii) Insert each of the conductor as far as it goes in the hole receiving it.



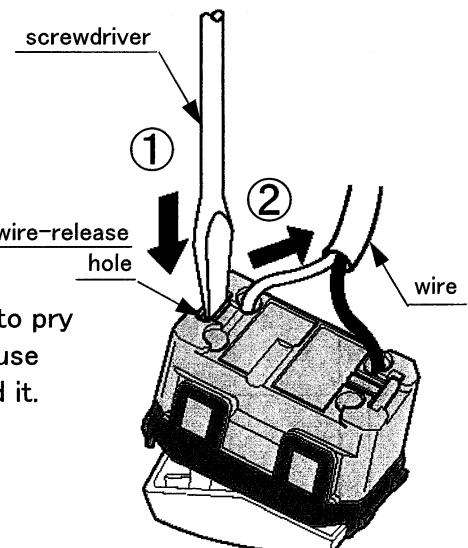
**Warning:** Be careful not to pull or twist the connected conductor with an excessive force to avoid damaging the conductor.

## 5-2 Disconnection method

(1) Insert an electrician's screwdriver (medium or small size) straight into the wire-release hole until it lands on the bottom of the hole.

(2) Extract the wire and pull out the screwdriver.

**Warning:** When disconnecting the wire, be careful not to pry it out with the screwdriver, which may cause chipping off the molded parts used around it.



For Mass PROD.

2020.04.15

PMFAT/ECM DIVISION

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## 6. CAUTIONS FOR SAFE USE

We are not liable for any problems caused by noncompliance with the following items.

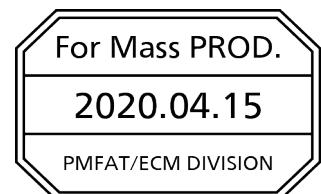
### 6-1 Cautions during use

#### (1) Improper connection

- When connecting this product, follow the details in the specification  
(See "4 : CONDITIONS FOR USE").  
An improper connection may cause electric shock, abnormal heating or ignition in the terminals.

#### (2) Improper use

- When using this product, follow the details in the specification  
(See "3 : ENVIRONMENTAL CONDITIONS").  
If you use the product in an unsuitable place, such as outdoors, an insulation fault in the appliance may cause electric shock or short circuit.
- DO NOT use the electric wire if it has a damaged cover.  
Faulty insulation may cause electric shock or short circuit.
- DO NOT pull or twist the connected wire with excessive force.  
The core of the wire may be damaged, causing abnormal heating or ignition in the terminals.
- DO NOT use soldered flexible or stranded wire.  
It may cause abnormal heating or ignition in the terminal.



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