

1. A LIST OF NAME

MASTER PMFAT
PANASONIC MANUFACTURING
ASIA CO., LTD.

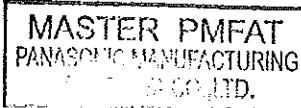
Product No.	Product Name
WTEGP51552S-1	ALUFILA Series Illuminated Switch "C",3-Way,1-Device with Plate, Quick Connect Terminal (Vertical Type) (Silver) 16AX 250V ~
WTEGP52562S-1	ALUFILA Series Illuminated Switch "C",3-Way,2-Device with Plate, Quick Connect Terminal (Vertical Type) (Silver) 16AX 250V ~
WTEGP53572S-1	ALUFILA Series Illuminated Switch "C",3-Way,3-Device with Plate, Quick Connect Terminal (Vertical Type) (Silver) 16AX 250V ~
WTEGP54562S-1	ALUFILA Series Illuminated Switch "C",3-Way,2+2-Device with Plate, Quick Connect Terminal (Vertical Type) (Silver) 16AX 250V ~
WTEGP55582S-1	ALUFILA Series Illuminated Switch "C",3-Way,2+3-Device with Plate, Quick Connect Terminal (Vertical Type) (Silver) 16AX 250V ~
WTEGP56572S-1	ALUFILA Series Illuminated Switch "C",3-Way,3+3-Device with Plate, Quick Connect Terminal (Vertical Type) (Silver) 16AX 250V ~

2. TYPE

2-1 Rating : 16AX 250V ~ (Neon lamp 220V ~)
 2-2 Contact method : Silver alloy - Silver alloy contact
 2-3 Circuit : 3-WAY (Switch "C"/Pattern No.6 on IEC606691-1)
 2-4 Terminal : Screwless terminal (Quick connect terminal)

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02 JUL 2012
ISSUED TO : PDD-PES

Catalog No. WTEGP51552S-1	Name ALUFILA Series Illuminated Switch "C",3-Way,1-Device with Plate, Quick Connect Terminal (Vertical Type) (Silver) 16AX 250V ~	Date: 2012.06.11
Panasonic Corporation	Designed by <i>Rikava A</i> Checked by <i>Rikava A</i>	Evaluated by <i>Chikuni</i> Approved by <i>Nobue</i>



3.GUARANTEED QUALITY

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

3-2 Performance

· Testing methods are based on IEC 60669-1(2000)

(INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC60669-1)

Switches for household and similar fixed-electrical installations-

· Following are tested at normal temperature (15 °C to 35 °C)

Resistance to ageing	Temperature : 70 °C ±2 °C for 168 hours(7 days)
Resistance to humidity	Temperature : 20 °C to 30 °C Humidity : 91% to 95% for 48 hours(2 days)
Insulation resistance (Insulation tester 500V DC)	<ul style="list-style-type: none"> Between all poles connected together and the body, with the switch in the "On" position. : Not less than 5MΩ Between each pole in turn and all other poles connected to the body, with the switch in the "On" position. : Not less than 2MΩ Between live parts which are separated when the contacts are open. : Not less than 2MΩ <p>Not : Neon glow lamp and resistor disconnected.</p>
Electric strength	<ul style="list-style-type: none"> Between all poles connected together and the body, with the switch in the "On" position. : 2000 V for 1 minute Between each pole in turn and all other pole connected to the body, with the switch in the "On" position : 2000 V for 1 minute Between live parts which are separated when the contacts are open. : 2000 V for 1 minute <p>Note : Neon glow lamp and resistor disconnected.</p>
Temperature rise	Test current : 20A(2.5 mm ²) Not more than 45 K (terminal)

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Catalog No. WTEGP51552S-1	Name ALUFILA Series Illuminated Switch "G",3-Way, 1-Device with Plate, Quick Connect Terminal (Vertical Type) (Silver) 16AX 250V ~	Date: 2012.06.11
Panasonic Corporation	Designed by <i>John Doe</i>	Evaluated by <i>John Doe</i>
	Checked by <i>John Doe</i>	Approved by <i>John Doe</i>

Title

SPECIFICATION

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Making and breaking capacity	<table border="1"> <tr> <th>Voltage(V)</th><th>Current(A)</th><th>Power Factor</th><th>Number of operation</th><th>Operation Rate (times/min)</th></tr> <tr> <td>275 V</td><td>20 A</td><td>0.3 ± 0.05</td><td>200</td><td>15</td></tr> <tr> <td>※ 250V</td><td>19.2 A</td><td>-</td><td>200</td><td>15</td></tr> </table>					Voltage(V)	Current(A)	Power Factor	Number of operation	Operation Rate (times/min)	275 V	20 A	0.3 ± 0.05	200	15	※ 250V	19.2 A	-	200	15	※ tungsten filament lamp					
Voltage(V)	Current(A)	Power Factor	Number of operation	Operation Rate (times/min)																						
275 V	20 A	0.3 ± 0.05	200	15																						
※ 250V	19.2 A	-	200	15																						
(1)	<table border="1"> <tr> <th>Voltage(V)</th><th>Current(A)</th><th>Power Factor</th><th>Number of operation</th><th>Operation Rate (times/min)</th></tr> <tr> <td>250 V</td><td>16 A</td><td>0.6 ± 0.05</td><td>40000</td><td>15</td></tr> </table>					Voltage(V)	Current(A)	Power Factor	Number of operation	Operation Rate (times/min)	250 V	16 A	0.6 ± 0.05	40000	15	Temperature rise : Not more than 45 K (terminal) Electric strength : 1500 V for 1 minute										
Voltage(V)	Current(A)	Power Factor	Number of operation	Operation Rate (times/min)																						
250 V	16 A	0.6 ± 0.05	40000	15																						
<table border="1"> <tr> <th>Load A</th><th>Voltage(V)</th><th>Current(A)</th><th>Power Factor</th><th>Number of operation</th><th>Operation Rate (times/min)</th><th>Capacitor</th></tr> <tr> <td>Load A</td><td>250 V</td><td>16 A</td><td>0.9 ± 0.05</td><td>5000</td><td>15</td><td>140μF±10%</td></tr> <tr> <td>Load B</td><td>250 V</td><td>-</td><td>-</td><td>100</td><td>15</td><td>7.3μF±10%</td></tr> </table>					Load A	Voltage(V)	Current(A)	Power Factor	Number of operation	Operation Rate (times/min)	Capacitor	Load A	250 V	16 A	0.9 ± 0.05	5000	15	140μF±10%	Load B	250 V	-	-	100	15	7.3μF±10%	Temperature rise : Not more than 45 K (terminal) Electric strength : 1500 V for 1 minute
Load A	Voltage(V)	Current(A)	Power Factor	Number of operation	Operation Rate (times/min)	Capacitor																				
Load A	250 V	16 A	0.9 ± 0.05	5000	15	140μF±10%																				
Load B	250 V	-	-	100	15	7.3μF±10%																				
Mechanical strength (impact-test)	height of fall : 100 mm striking element : 150 g ± 1 g 9 blows																									
Resistance to heat	Temperature : 100 °C ± 2 °C for 1 hour																									
Ball-pressure test	<ul style="list-style-type: none"> The parts which is necessary to retain current-carrying parts. 																									
	<ul style="list-style-type: none"> Temperature : 125 °C ± 2 °C Force : 20 N for 1 hour 																									
Resistance of rusting	<ul style="list-style-type: none"> The parts which is not necessary to retain current-carrying parts. 																									
	<ul style="list-style-type: none"> Temperature : 70 °C ± 2 °C or 40 °C ± 2 °C plus the highest. 																									
		Temperature rise			Force : 20 N for 1 hour																					
Performance of screwless terminal		10% solution of ammonium chloride in water			for 10 minutes																					
Catalog No.	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 22.5 mV or two times the value measured after the 24 cycle, whichever is the smaller.																						
	Wire deflect test			1.5 mm ² : 0.5 N 2.5 mm ² : 1 N The voltage drop : Not more than 25 mV																						

Not : In this specification, units are the International System of Units (SI) based on International Electrotechnical Commission (IEC).

Catalog No. WTEGP51552S-1	Name ALUFILA Series Illuminated Switch "C",3-Way, 1-Device with Plate, Quick Connect Terminal (Vertical Type) (Silver) 16AX 250V ~	Date: 2012.06.11
Panasonic Corporation	Designed by <i>Rulava D</i>	Evaluated by <i>Ch. Narin</i>
	Checked by <i>Rulava D</i>	Approved by _____

3-3 The other performance

- Life of neon glow lamp

Not less than 80,000 hours (220 V)

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Note : The life of the neon glow lamp may be short by the frequent operation.

4. ENVIRONMENTAL CONDITIONS

4-1 Ambient Temperature : -10°C to +40°C

4-2 Installation

- (1) This switch is allowed to be used only in indoor office and the like.
- (2) This switch is not allowed to be used in workshop which is subject to get severe handing and in damp place open air and under the eaves.

5. CONDITIONS FOR USE

5-1 Connection System

(1) Applicable Wire

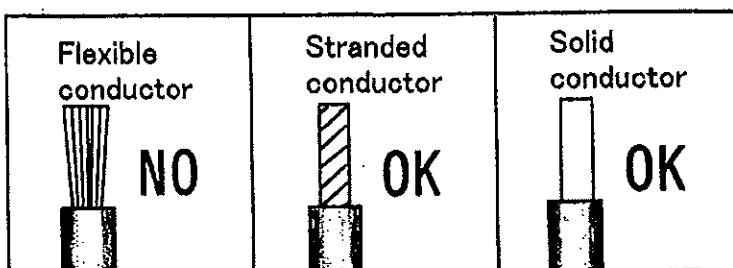
1.5 mm² - 2.5mm² Only Rigid (Solid or Stranded) Copper Conductor Type

Not : 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.

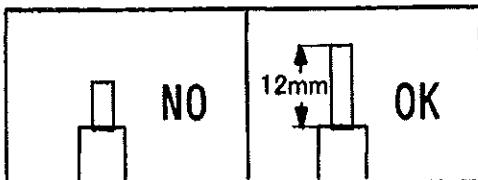
Or, it may result in abnormal heating or faulty contact in the wiring.



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Panasonic Corporation	Designed by <i>Sukhna D</i>	Evaluated by <i>A.Nawri</i>
	Checked by <i>Sukhna D</i>	Approved by _____

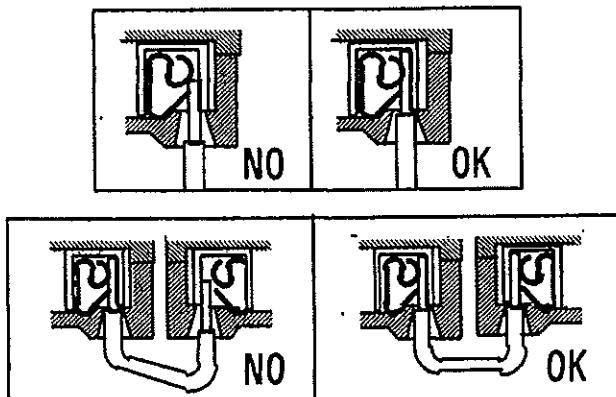
(2) Connection method

(i) Strip off the covering of the conductor by $12 \frac{+2}{-3}$ mm by matching with the strip-off gauge provided on the rear side of the switch.



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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 a screwdriver straight into the wire-release until it lands on the bottom of the hole.

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

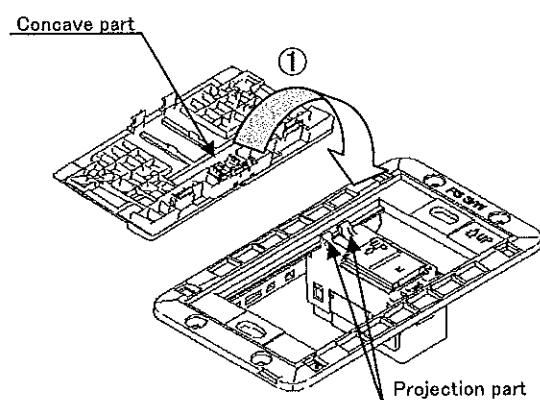
Warning : When disconnecting the wire, be careful not to pry it out with the screwdriver, which may cause chipping off the molded parts used around it.



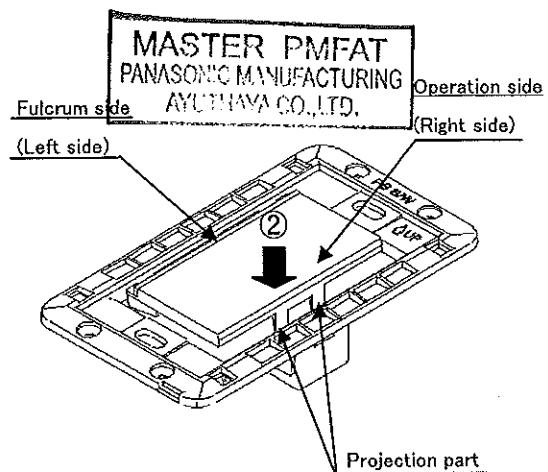
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Panasonic Corporation	Designed by <i>Rukava</i>	Evaluated by <i>AN</i>
	Checked by <i>Rukava</i>	Approved by <i>—</i>

5-3 How to install handle

① Push the concave part of the handle into the projection part of the switch body, and rotate in the arrowing direction



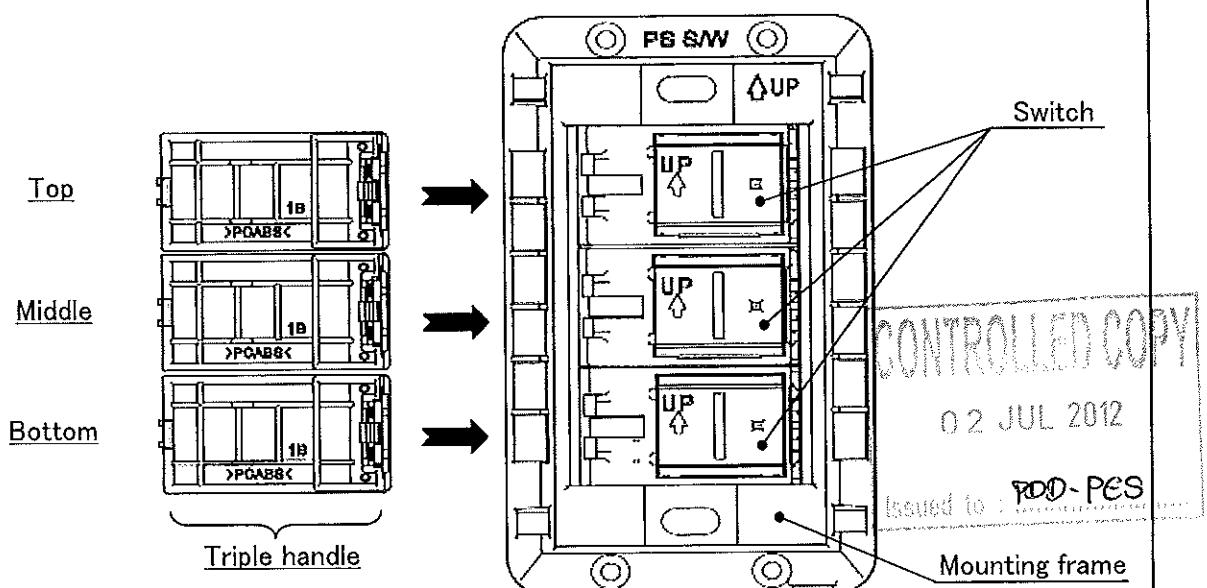
② The projection part of the handle (right side) is pushed into the ditch part of the switch body



(Note 1) When the operation side of the handle (right side) is pushed first, the handle might be damaged.

(Note 2) As for a triple handle, the installation position is different. Please install after confirming the installation position .

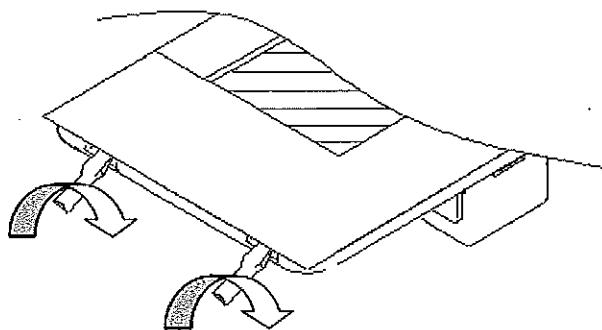
(Refer to the figure below)



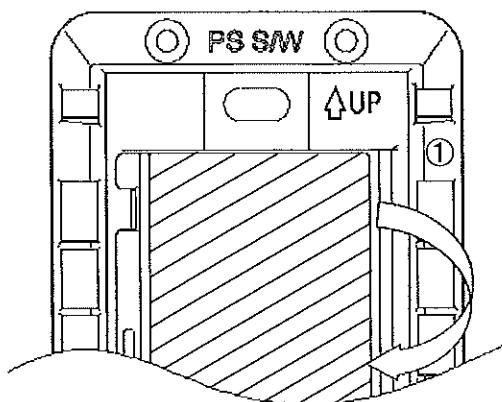
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WTEGP51552S-1			2012.06.11
Panasonic Corporation	Designed by	<i>Shinoda</i>	Evaluated by <i>W. Name</i>
	Checked by	<i>Kishiba</i>	Approved by _____

5-3 How to remove handle

① Please hang a minus driver (6mm or less in the width of the blade) on the plate removing ditch, and remove the cover-plate



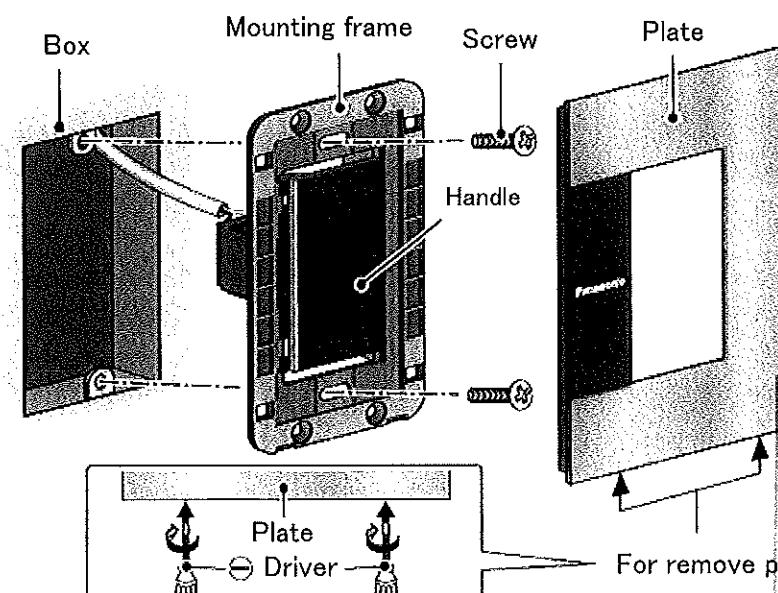
② Please hang the finger on a right side of the handle and remove.



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(Note) Please do not remove the handle from the fulcrum side (left side)

③ How to install



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Date:

2012.06.11

Panasonic Corporation

Designed by *Sakura D*

Evaluated by *Ch. Nani*

Checked by *Sakura D*

Approved by *—*

6. CAUTIONS FOR SAFE USE

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

6-1 Cautions during use**(1) Improper during use**

- When connecting this product, follow the details in the specification

(See "5 : 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 detail in the specification

(See "4 : 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 use or twist the connected wire with excessive force.

The core of the wire may be damaged, causing abnormal heating or ignition in the terminal.

- DO NOT use soldered flexible or stranded wire.

It may cause abnormal heating or ignition in the terminal.

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Panasonic Corporation	Designed by <i>Rishabh</i>	Evaluated by <i>Al Naeem</i>
	Checked by <i>Rishabh</i>	Approved by _____