























FULL-COLOR WIDE SERIES Rofina A-TYPE

FULL-COLOR WIDE SERIES
A-TYPE

A R M O N Y BS-TYPE







#### DIMENSIONS of Applicable Box



Plate: 86 × 86 mm Box: 72 × 72 mm Fixting Center: 60.3 mm















#### **Socket Outlets**











S





SS































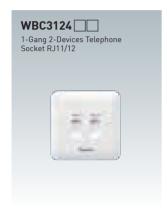
#### **Accessories**

























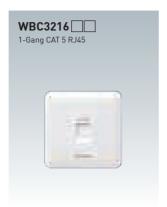






FULL-COLOR SERIES
A-TYPE













# **Dimmer Switches**











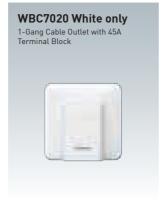






#### **Others**























TECHNICAL DETAILS

HARMONY BS-TYPE

# Harmony

# **Switches 10AX**

BS-TYPE 1Way Switch







WBC5011

WBC5021

WBC5031

WBC5061

WBC5042

2Way Switch

# **Technical Specifications**

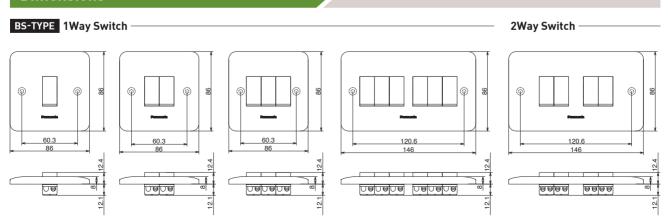
- ➤ Standards Comply with BSEN60669-1
- Rating 10AX 250V~
- ► Ambient Temperature
  - -5°C +40°C
- ► Representative Performance
  - ·Electric strength : 2,000V 1 min ·Operation test : 40,000 Operations
  - Temperature rise : Test current 13.5A (2.5 mm²)
    - Not more than 45K (Terminals)

- ▶ Terminal
  - Pillar Terminal
- ► Applicable Wire
- 1 mm<sup>2</sup> 4 mm<sup>2</sup>
- ► Terminal Capacity
  - $1.5 \text{ mm}^2 \times 3$
  - $2.5 \text{ mm}^2 \times 2$
  - $4 \text{ mm}^2 \times 1$

### **Features**

- O Compact tumbler switch delivers a distinct click feel.
- O Made with flame-retardant and heat-resistant urea resins.
- Oconstruction integrated with plate maintains overall compact dimensions.
- Accepts wires: 1 mm² 4 mm² solid wire and stranded wire.

### **Dimensions**

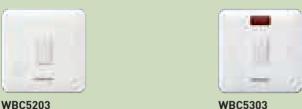


\*BS-TYPE: M3.5 mounting screws included.

# Harmony

# **Switches 20A**

BS-TYPE DP Switch



(Water Heater)

WBC5313

# **Technical Specifications**

- ➤ Standards
  Comply with BSEN60669-1
- Rating 20A 250V~
- Ambient Temperature
- -5°C − +40°C

  Representative Performance

·Electric strength : 2,000V 1 min ·Operation test : 10,000 Operations ·Temperature rise : Test current 25A (4 mm²)

Not more than 45K (Terminals)

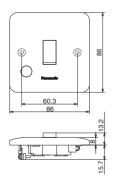
- ▶ Terminal
- Pillar Terminal
- ► Applicable Wire 2.5 mm<sup>2</sup> 6 mm<sup>2</sup>
- ► Terminal Capacity
  - $1.5 \text{ mm}^2 \times 3$
  - $2.5 \text{ mm}^2 \times 3$
  - $4 \text{ mm}^2 \times 2$
  - $6 \text{ mm}^2 \times 1$

### **Features**

- O High-capacity silver contact for longer life.
- $\bigcirc$  Made with flame-retardant and heat-resistant urea resins.
- Oconstruction integrated with plate maintains overall compact dimensions.
- O Built-in lighted indicator shows On/Off status. (WBC 5303, 5313)

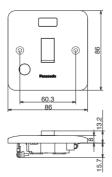
### **Dimensions**

BS-TYPE DP Switch

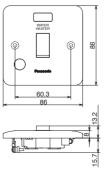


DP Switch with Indicator

DP Switch with Indicator



(Water Heater)



BS-TYPE DP Switch with Indicator



WBC5403



WBC5413

# **Technical Specifications**

- ► Standards
  - Comply with BSEN60669-1
- ► Rating
  - 45A 250V~ (for a resistive circuit) 25A 250V~ (for a motor-load circuit)
- ► Ambient Temperature
  - $-5^{\circ}C +40^{\circ}C$
- ► Representative Performance
  - ·Electric strength : 1,500V 1 min : 10,000 Operations ·Operation test
  - ·Temperature rise : Test current 51A (16 mm<sup>2</sup>)
    - Not more than 45K (Terminals)

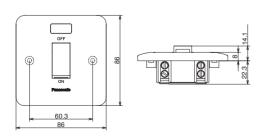
- ▶ Terminal
  - Pillar Terminal
- ► Applicable Wire
  - 4 mm<sup>2</sup> 16 mm<sup>2</sup> Stranded wire
  - 4 mm<sup>2</sup> 6 mm<sup>2</sup> Solid wire
- ► Terminal Capacity
  - $4 \text{ mm}^2 \times 3$
  - $6 \text{ mm}^2 \times 2$
  - $10 \text{ mm}^2 \times 1$
  - $16 \text{ mm}^2 \times 1$

# **Features**

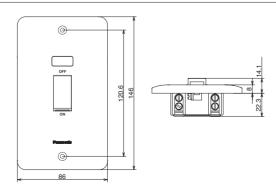
- O High-capacity silver contact for longer life.
- Ocover uses flame-retardant and heat-resistant urea resin. (body made from PBT)
- O Construction integrated with plate maintains overall compact dimensions.
- Accepts wires: 4 mm² 16 mm² solid wire and stranded wire.
- O Built-in lighted indicator shows On/Off status.
- O Normal gap double-pole switch (minimum contact gap: 3 mm) construction ensures safe load shut-off.

#### **Dimensions**

BS-TYPE DP Switch with Indicator



\*BS-TYPE: M3.5 mounting screws included.



TECHNICAL DETAILS

# Harmony

# **Dimmer Switches**

BS-TYPE 500W



400W × 2 -

WBC4221

W 100

350W × 3 -



WBC4231



WBC4241

# **Technical Specifications**

Rating

WBC4211

- 220V-240V~ 50/60Hz
- ► Ambient Temperature -5°C - +40°C

- ▶ Terminal
  - Pillar Terminal
- ► Applicable Wire 1 mm<sup>2</sup> 4 mm<sup>2</sup>

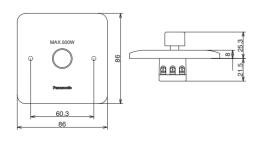
# **Features**

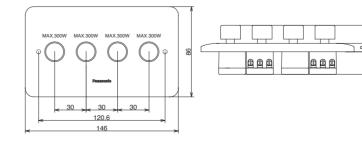
- $\bigcirc$  Product range extensive enough to include a 4-gang switch with 1,200W rating.
- O Built-in Push On/Off function.
- $\bigcirc$  Construction integrated with plate maintains overall compact dimensions.
- Fan controller available. (WBC4530)

### **Dimensions**

BS-TYPE 500W

300W × 4 -





\*BS-TYPE: M3.5 mounting screws included.

# **Socket Outlets**

BS-TYPE DP Switched Socket



WBC1212



WBC1222

DP Switched Socket with Indicator



WBC1214



WBC1224

# **Technical Specifications**

- ▶ Standards
  - Comply with BS1363-2
- Rating 13A 250V~
- ► Ambient Temperature
  - -5°C +40°C
- ► Representative Performance
  - ·Electric strength : 2,000V 1 min
  - Operation test : 15,000 times (30,000 movements)
  - ·Temperature rise : Test current 20A (2.5 mm²)
    - Not more than 52K (Terminals)

- ▶ Terminal
  - Pillar Terminal
- ► Applicable Wire
  - 1.5 mm<sup>2</sup> 4 mm<sup>2</sup>
  - 15 AWG 12 AWG
- ► Terminal Capacity
  - $1.5 \text{ mm}^2 \times 3$
  - $2.5 \text{ mm}^2 \times 3$
  - $4 \text{ mm}^2 \times 2$

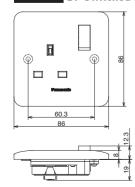
### **Features**

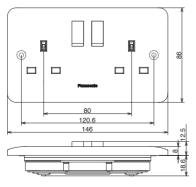
- $\bigcirc$  Socket Outlet with a double-pole switch completely isolates load from power supply.
- O Socket Outlet housing uses flame-retardant and heat-resistant Nylon with high anti-tracking properties.
- Accepts wires: 1.5 mm² 4 mm² solid wire and stranded wire.
- $\bigcirc$  Both socket and switch components have adequate operation capability.
- O Included safety shutter prevents kids from tampering with socket.

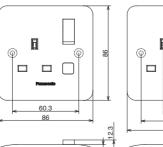
Models equipped with pilot lamps are also available. (single switch - 1 lamp, double switch - 2 lamps)

# **Dimensions**

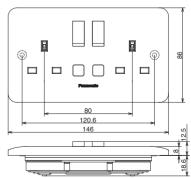
BS-TYPE DP Switched Socket







**DP Switched Socket with Indicator** 



\*BS-TYPE: M3.5 mounting screws included.

SENSOR





WBC3010

F Type



WBC3011

DIN Type -



WBC3020

DIN Type + F Type



WBC3820

# **Technical Specifications**

► Connector Type (Outlet) : DIN Type WBC3010, WBC3020 (TV, FM), WBC3820 (TV) Connector Type (Outlet): F Type WBC3011 (SAT), WBC3820 (SAT)

▶ Terminal

► Impedance

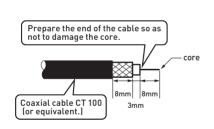
Screw Terminal Input, Outlet:  $75\Omega$ ► Applicable Cable Coaxial cable

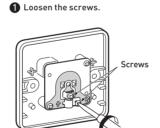
> Characteristic Impedance  $75\Omega$  type : CT-100 (or equivalent)

### **Features**

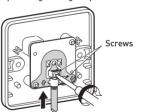
# "Easy Connection"

Connection just needs a coaxial cable to be inserted, then both core and braid sections are tightened with screws.

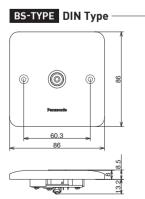




2 Insert the cable and tighten the screws. (Appropriate tightening torque 0.33N.m - 0.40N.m)

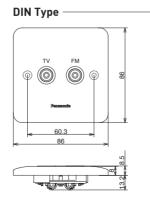


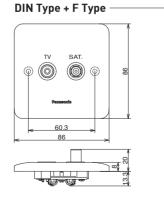
# **Dimensions**



86

F Type





\*BS-TYPE: M3.5 mounting screws included.

TECHNICAL DETAILS

HARMONY BS-TYPE

# Harmony

# **Accessories-Telephone**



**UK-Secondary** 

**WBC3113** 

**RJ11/12** 

WBC3114



**WBC3118** 



WBC3124



WBC3128

# **Technical Specifications**

# **UK** Type

WBC3112

- Connector Type Miniature Modular Jack, 6P6C (Mechanically complies with BS 6312: 1994, miniature 6 position jack with 6 contacts)
- ▶ Terminal Screw Terminal
- ► Applicable Wire Core wire to be 0.5 mm in diameter (solid copper only) 2 Pairs Cable (CW1308)

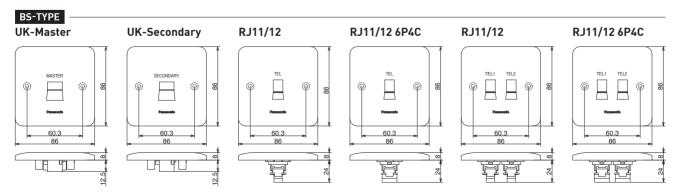
### **RJ11/12 Type**

- Connector Type Miniature Modular Jack, (6P2C) 6 position with 2-contacts, (6P4C) 6 position with 4-contacts, specified in TIA-1096-A (Previously in FCC part 68)
- ▶ Terminal Screw Terminal
- ► Applicable Wire Core wire to be 0.5 mm in diameter (solid copper only)

# **Features**

- Ousing terminal blocks enhance wiring ease.
- Two types available-the RJ type and the UL type.

### **Dimensions**



\*BS-TYPE: M3.5 mounting screws included.

# **Accessories - LAN**

# BS-TYPE RJ45 Category 5e







RJ45 Category 6



WBC3216 WBC3226

# **Technical Specifications**

- Connector Type
  - "8-way unshielded fixed connector (miniature 8-position modular jack)" specified in IEC 60603-7
- ▶ Terminal
  - IDC connection
- ► Applicable Cable

WBC3216/3226 : 4-pair UTP cable, Category 5e

Conductor: solid copper wire, 22 AWG - 24 AWG (diameter: 0.5 mm - 0.65 mm)

: or stranded copper wire, 24 AWG

WBC3217/3227: 4-pair UTP cable, Category 6

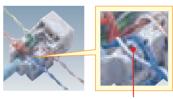
Conductor: solid copper wire, 22 AWG - 24 AWG (diameter: 0.5 mm - 0.65 mm)

# **Features**

Toolless

# 1 It's not necessary to use special wiring tool. 2-way connection

#### 2 No need to untwist the wires.





No need to untwist the wires to setting on the slots. Minimum untwisting retains uniform installation

# Pin/Pair assignment

T568A	T568B (Optionnal)	
Pair 2 Pair 3 Pair 1 Pair 4 1 2 3 4 5 6 7 8	Pair 3 Pair 1 Pair 4 1 2 3 4 5 6 7 8	
	Dia Na	

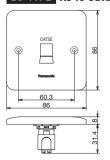
	Pair	Color	Pin No.	
	rall		T568A	T568B
	1	W/BL	5	5
		BL	4	4
	2	W/0	3	1
		0	6	2
	3	W/G	1	3
		G	2	6
4	, \	W/BR	7	7
	4	BR	8	8

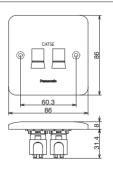
#### Cut the excess wires with nippers after connection

#### Excess wires can be cut with the blade edge of the tool

### **Dimensions**

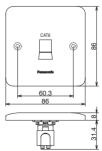
# BS-TYPE RJ45 Category 5e

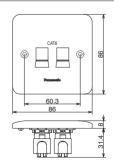




# RJ45 Category 6

quality and transmission performance





\*BS-TYPE: M3.5 mounting screws included.

TECHNICAL DETAILS

HARMONY BS-TYPE

# Harmony

# **Others**

### **Push Button**



WBC5511

# Technical Specifications

- ► Standards
- Comply with BSEN60669-1
- ► Rating
- 10A 250V~
- ► Ambient Temperature -5°C - +40°C
- ► Representative Performance
  - ·Electric strength
  - : 2,000V 1 min
  - ·Operation test
  - :40,000 Operations
  - ·Temperature rise
    - : Test current 13.5A (2.5 mm²) Not more than 45K (Terminals)

- ► Terminal
- Pillar Terminal
- ► Applicable Wire
- 1 mm<sup>2</sup> 4 mm<sup>2</sup>
- ► Terminal Capacity
- $1.5 \text{ mm}^2 \times 3$
- $2.5 \text{ mm}^2 \times 2$
- $4 \text{ mm}^2 \times 1$

# Intermediate Switch

### Technical Specifications



WBC5014

- ► Standards Comply with BSEN60669-1
- ► Rating 10AX 250V~
- ► Ambient Temperature -5°C - +40°C
- ► Representative Performance ·Electric strength
  - : 2,000V 1 min
  - ·Operation test
    - :40,000 Operations
  - ·Temperature rise
    - : Test current 13.5A (2.5 mm²) Not more than 45K (Terminals)

- ► Terminal Pillar Terminal
- ► Applicable Wire 1 mm<sup>2</sup> - 4 mm<sup>2</sup>
- ► Terminal Capacity
  - $1.5 \text{ mm}^2 \times 3$
- $2.5 \text{ mm}^2 \times 2$
- $4 \text{ mm}^2 \times 1$

### 15A Socket



WBC1313

#### **Technical Specifications**

- ► Standards Comply with BS546
- ► Rating 15A 250V~
- ► Ambient Temperature -5°C - +40°C
- ► Representative Performance
  - ·Electric strength
    - : 1,500V 1 min
- ·Operation test
  - : 15,000 times (30,000 movements)
- ·Temperature rise
  - : Test current 15A (2.5 mm²) Not more than 35K (Terminals)

- ► Terminal
- Pillar Terminal
- ► Applicable Wire 2.5 mm<sup>2</sup> - 6 mm<sup>2</sup>
- ► Terminal Capacity
- $2.5 \text{ mm}^2 \times 3$
- $4 \text{ mm}^2 \times 2$
- $6 \text{ mm}^2 \times 1$

# 16A Universal Socket



**WBC1510** 

# Technical Specifications

- ► Standards
- Comply with IEC60884-1
- ► Rating
  - 16A 250V~
- ► Ambient Temperature
  - -5°C +40°C
- ► Representative Performance
  - ·Electric strength
    - : 2,000V 1 min
  - Operation test
    - : 5,000 times (10,000 movements)
- ·Temperature rise
  - : Test current 22A (2.5 mm²) Not more than 45K (Terminals)

- ► Terminal
- Pillar Terminal
- ► Applicable Wire
- 2.5 mm<sup>2</sup> 6 mm<sup>2</sup> ► Terminal Capacity
  - $2.5 \text{ mm}^2 \times 2$
  - $4 \text{ mm}^2 \times 1$
  - $6 \text{ mm}^2 \times 1$

# German Socket



WBC1610

### **Technical Specifications**

- ► Standards
  - Comply with IEC60884-1
- ► Rating
  - 16A 250V~
- ► Ambient Temperature
  - -5°C +40°C
- ▶ Representative Performance
- ·Electric strength
- : 2,000V 1 min
- Operation test
  - : 5,000 times (10,000 movements)
- ·Temperature rise
  - : Test current 22A (2.5 mm²) Not more than 45K (Terminals)

- ► Terminal
- Pillar Terminal ► Applicable Wire
- 2.5 mm<sup>2</sup> 6 mm<sup>2</sup>
- ► Terminal Capacity
- $2.5 \text{ mm}^2 \times 3$
- $4 \text{ mm}^2 \times 2$
- $6 \text{ mm}^2 \times 1$

# Cable Outlet



**WBC7010** 



WBC7020

#### **Technical Specifications**

- ► Standards and Approvals Comply with BS5733
- ► Ambient Temperature -5°C - +40°C
- ▶ Representative Performance ·Electric strength

  - : 2,000V 1min ·Temperature rise :
  - WBC7010 : Test current 22A (4 mm²) WBC7020
  - : Test current 49.5A (6 mm²) Not more than 47K (Terminals)
- ▶ Terminal Pillar Terminal

- ► Applicable Wire WBC7010
  - Input: 2.5 mm<sup>2</sup> 6 mm<sup>2</sup> (Rigid Copper Wire) Output: 1.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup> (Flexible Electrical Wire) WBC7020:
  - Input: 4 mm<sup>2</sup> 16 mm<sup>2</sup> (Rigid Copper Wire) Output: 4 mm<sup>2</sup> - 16 mm<sup>2</sup> (Flexible Electrical Wire)
- ► Terminal Capacity WBC7010
  - : Input 2.5 mm<sup>2</sup>, 4 mm<sup>2</sup>,  $6 \text{ mm}^2 \times 1$ Output 1.5 mm<sup>2</sup>,  $2.5 \text{ mm}^2$ ,  $\times 1$

# WBC7020

: Input 4 mm<sup>2</sup>, 6 mm<sup>2</sup>, 10 mm<sup>2</sup>,  $16 \text{ mm}^2 \times 1$ Output 4 mm<sup>2</sup>, 6 mm<sup>2</sup>, 10 mm<sup>2</sup>.  $16 \text{ mm}^2 \times 1$ 

### **Fuse Unit**





**WBC7100** 

**WBC7101** 

# Technical Specifications

- ► Standards
- Comply with BS1363-4
- ► Rating
- 13A 250V~
- ► Ambient Temperature -5°C - +40°C
- ► Representative Performance ·Electric strength
  - : 2,000V 1 min
- ·Temperature rise
  - : Test current 20A (2.5 mm²) Not more than 52K (Terminals)

- ► Terminal
- Pillar Terminal
- ► Applicable Wire 2.5 mm<sup>2</sup> - 6 mm<sup>2</sup>
- ► Terminal Capacity
  - $2.5 \text{ mm}^2 \times 3$
  - $4 \text{ mm}^2 \times 2$
  - $6 \text{ mm}^2 \times 1$

#### **Shaver Socket Technical Specifications**



WBC9120

- ► Standards Comply with BSEN61558-2-5
- ► Rating 20VA 250V~
- ► Ambient Temperature -5°C - +40°C
- ► Representative Performance ·Electric strength
  - : 2,000V 1 min
  - ·Operation test
    - : 5,000 times (10,000 movements)
  - ·Temperature rise
    - : Test current 20VA (4 mm²) Not more than 45K (Terminals)

- ► Terminal Pillar Terminal
- ► Applicable Wire 2.5 mm<sup>2</sup> - 4 mm<sup>2</sup>
- ► Terminal Capacity
- $2.5 \text{ mm}^2 \times 1$
- $4 \text{ mm}^2 \times 1$

# **Switched Multiple** Socket Outlet (10A)



WBC1711

#### **Technical Specifications**

- ► Standards Comply with IEC60884-1
- ► Rating 10A 250V~
- ► Ambient Temperature -5°C - +40°C
- ► Representative Performance:
- ·Electric strength
  - : 2,000V 1 min
- ·Operation test
- : 5,000 times
- ·Temperature rise
  - : Test current 16A (2.5 mm²) Not more than 45K (Terminals)

- ► Terminal
- Pillar Terminal ► Applicable Wire
- 2.5 mm<sup>2</sup> 6.0 mm<sup>2</sup> /
- 14 AWG 12 AWG
- ► Terminal Capacity
- $2.5 \text{ mm}^2 \times 3$
- $4 \text{ mm}^2 \times 2$
- $6 \text{ mm}^2 \times 1$

TECHNICAL DETAILS