

JIS

JAPANESE INDUSTRIAL STANDARD

**Unplasticized Polyvinyl Chloride
(UPVC) Boxes and Box Covers**

Ⓢ JIS C 8435—1988

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Unplasticized Polyvinyl Chloride (UPVC)
Boxes and Box Covers

C 8435-1988

1. Scope

This Japanese Industrial Standard specifies Unplasticized Polyvinyl Chloride (UPVC) boxes, hereinafter referred to as the "boxes", and the covers to be used with the unplasticized polyvinyl chloride conduits specified in JIS C 8430 or pliable plastic conduits specified in JIS C 8411. Items not specified in this Standard shall comply with JIS C 8431.

2. Classes and Symbols

The classes and symbols of boxes shall be as given in Table 1 and classes of covers shall be as given in Table 2.

Table 1. Classes and Symbols of Boxes

Class			Symbol
Surface type	Switch box	For one switch	SW 140 SW 150
		For two switches	SW 250
	Circular box		R 36 R 44 R 54
	Square box	Shallow type	4 B 50
		Deep type	4 B 60

Applicable Standards:

JIS C 8411-Pliable Plastics Conduits

JIS C 8430-Unplasticized Polyvinyl Chloride (UPVC) Conduits

JIS C 8431-General Rules for Fittings of Unplasticized Polyvinyl Chloride (UPVC) Conduit

JIS K 6745-Rigid Polyvinyl Chloride Plates



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Table 1 (Continued)

Class			Symbol
Flush type	Switch box for "shinkabe" *		SM 36 SM 30 M SM 30 L
	Switch box	For one switch	CSW 1 CSW 1 S
		For two switches	CSW 2
		For three switches	CSW 3
		For four switches	CSW 4
		For five switches	CSW 5
	Square concrete box	Medium size shallow type	4 CB 44
		Medium size deep type	4 CB 54 4 CB 75
		Large size shallow type	4 CBL 44
		Large size deep type	4 CBL 54 4 CBL 75
	Octagonal concrete box	Shallow type	8 CB 44
		Deep type	8 CB 54 8 CB 75
	Square outlet box	Medium size shallow type	4 OB 44
		Medium size deep type	4 OB 54
		Large size shallow type	4 OBL 44
		Large size deep type	4 OBL 54

Note (*): "shinkabe" means a wall of Japanese style.

Table 2. Classes of Covers

Class	
Blank cover	
Circular hole cover	With depth of coating
	Flat
Switch cover	With depth of coating
	Flat
Cover for fluorescent lamp	With depth of coating
	Flat

3. Construction

The construction of the boxes and covers shall comply with the following items:

- (1) The boxes and covers may provide a hub or a knockout at the parts marked with two-dot chain line in Attached Tables or Attached Figures.
- (2) The tube axis of the hub, if employed, shall be perpendicular to the wall of the box.
- (3) The knockout, if employed, shall be so arranged as not to disturb mounting of a connector.
- (4) Brass or stainless steel female screw of M 4 shall be solidly embedded, in the boss part of the box and cover and the box shall be accompanied with brass or stainless steel male screws of M 4.
- (5) The box to which a partition is attachable shall be such that the partition when attached, and the box form a solid structure.

4. Shape and Dimensions

4.1 The shapes and dimensions of the boxes and surface type circular box covers as well as surface type square box covers shall be as given in Attached Figs. 1 to 8. The shape shows one example.

4.2 The combination of the covers other than surface type circular box cover and surface type square box cover, and flush type boxes shall be as given in Table 3 and the shapes and dimensions of the covers shall be as given in Attached Figures. The shape shows one example.

Table 3. Combination of Cover and Flush Type Box

Box		Cover	Switch box CSW	Square concrete box 4 CB Square outlet box 4 OB	Square concrete box 4 CBL Square outlet box 4 OBL	Octagonal concrete box 8 CB
Blank cover			—	①	②	③
Circular hole cover	With depth of coating		—	④	⑤	⑥
	Flat		—	⑦	⑧	⑨
Switch cover	For one switch	With depth of coating	⑩	⑪	⑫	—
		Flat	⑬	⑭	⑮	—
	For 2 to 5 switches	With depth of coating	⑯	⑰	⑱	—
		Flat	⑲	⑳	㉑	—
Cover for fluorescent lamp	With depth of coating		—	㉒	㉓	㉔
	Flat		—	㉕	㉖	㉗

Remark: Numeral enclosed with a circle indicates No. of Attached Figure.

5. Manufacturing Methods

Boxes shall be manufactured by injection moulding. Covers and back plates shall be manufactured by processing Class 1 rigid polyvinyl chloride plates specified in JIS K 6745 or by injection moulding.

6. Number and Position of Hubs

For the boxes equipped with hubs, the number and position of hubs shall be as given in Table 4.

Table 4. Number and Position of Hub

Symbol	Number of hubs	Position of hub (For reference)
CSW SW	1, 2, 3	   
R	1, 2, 3, 4	    
SM	1, 2, 3, 4	       

7. Designation

Designation of products shall be made by the class or its symbol.

Example 1: Flush type square outlet box, medium size shallow type

Example 2: 4 OB 44

8. Marking

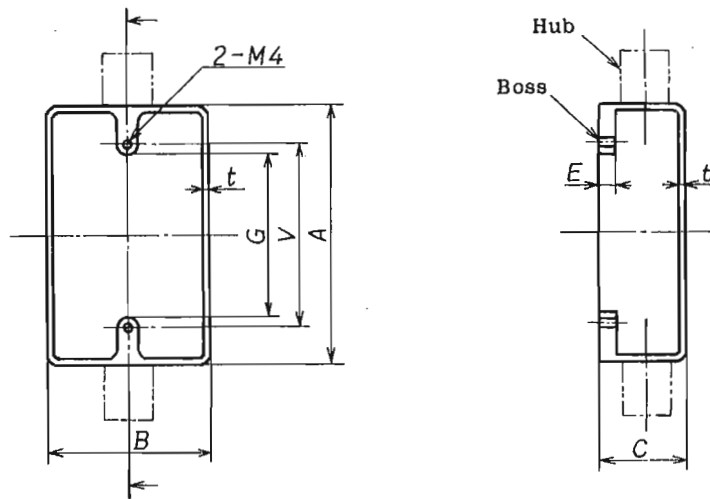
8.1 The box shall be marked indelibly on a ready visible part of its surface with the following information:

- (1) Class of box or its symbol
- (2) Nominal size of adaptable conduit tube, if the box employs hubs
- (3) Manufacturer's name or abbreviation

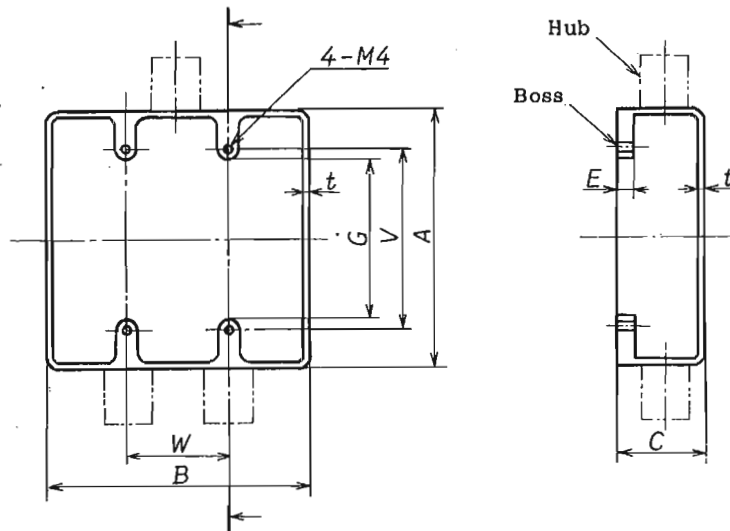
8.2 The cover shall be marked indelibly on a ready visible part of its surface with manufacturer's name or abbreviation.

Attached Table 1. Surface Type Switch Boxes (SW)

(1) SW 1



(2) SW 2



Unit: mm

Symbol	Length	Width	Height	Thickness		Screw spacing				Lug spacing	Thickness of boss	Max. nominal size of adaptable conduit tube					
	A	B	C	t	Toler- ance	V	Toler- ance	W	Toler- ance	G (min.)	E (min.)						
SW 1 40	119	74	40	3	± 0.3	83.5	±0.4	—	—	73	8	16					
SW 1 50			50									28					
SW 2 50		120	46					± 0.4									