

# Delivery specification

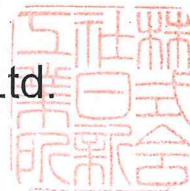
## Insulating bushing No.2

( Iupilon bushing )

Conformed JIS C 8330 based on JIS Q 1000



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# lupilon bushing

## 1. Scope of application

This standard stipulates the accessories (insulating bushing No. 2 of the accessory for JIS C 8330 metallic conduit pipe) used for steel conduit specified in JIS C 8305.

## 2. Type

The type of insulating bushing No.2 is as shown in Table 1.

Table 1 Type and Size

Type		Size	Remarks
Name	Applicable conduit		
Insulating bushing No.2	Thick steel conduit	G16、G22、G28、G36、G42、G54、G70、G82、G92、G104	No.2 is for main body only insulator.
	Thin steel conduit	C19、C25、C31、C39、C51、C63、C75	

## 3. Performance

Performance shall comply with the following items.

### 3.1 Installation test

No cracks, cracks or other damage shall be caused when performing the installation test.

### 3.2 Withstand voltage test

When withstanding voltage test is carried out, it must withstand 2000V/15minutes.

### 3.3 Flame resistance test

When flammability test is carried out, it will burn for 1minute and disappear spontaneously when the flame is removed.

### 3.4 Heat resistance test

When heat resistance test is carried out, change rate of outside diameter shall be within  $\pm 1\%$ .

### 3.5 Insulation resistance test

When insulation resistance test is conducted, the insulation resistance value must be 100meg·ohms or more.

### 3.6 Impact strength test

There shall be no cracks, cracks or other abnormalities when conducting the impact strength test.

### 3.7 Compressive Strength Test

Cracks, cracks, and other abnormalities should not occur when performing the compressive strength test.

### 3.8 Cap pull-out test

When carrying out the cap pull-out test, it should be removed with a load of 14.7N or more and 49.0N or less.

## 4. Construction

### 4.1 Structure General

The structure must conform to the following.

- Insulation bushing No.2 shall be rounded at the wire drawing end so as not to damage the wire, and the end of the threaded portion shall be chamfered.
- Ribs that can be tightened shall be attached to the outer periphery of the insulation bushing No.2.

- c) Insulation bushing No.2 is made of synthetic resin and simultaneously screws are molded.  
Female thread for insulation bushing No.2 for thick steel conduit of JIS C 8330 and for thin steel conduit of JIS C 8330,

#### 4.2 Connection

The connection must conform to the following.

- a) Insulation bushing No.2 shall be able to connect with conduit conforming respectively.
- b) The connection shall be mechanically and electrically easy and durable.
- c) The connecting end shall be perpendicular to the axis and shall be chamfered.

#### 5. Shape, size and dimensional tolerance

Shapes, dimensions and dimensional tolerances depend on Figure 1 Insulation bushing No.2.  
However, the figure shows an example of the shape.

#### 6. material

Insulating bushing No.2 shall be made of synthetic resin (polycarbonate), molded or made of materials equivalent to or better than mechanical strength, withstand voltage and heat resistance.

#### 7. Test method

General precautions concerning the test shall be as follows.

- a) The test specified in this standard shall be a formal test.
- b) Unless otherwise specified, the test shall be conducted at the ambient temperature in the room (in air above 5°C and below 30°C).
- c) Unless otherwise specified, the test shall be conducted on 5 new samples.
- d) The test shall be deemed to be compliant with this standard if all the tests are conducted and passed on 5 samples.  
(Refer to Appendix 2 of the test method of JIS C 8330 and "Ministerial Ordinance that establishes technical standards for electrical goods.")

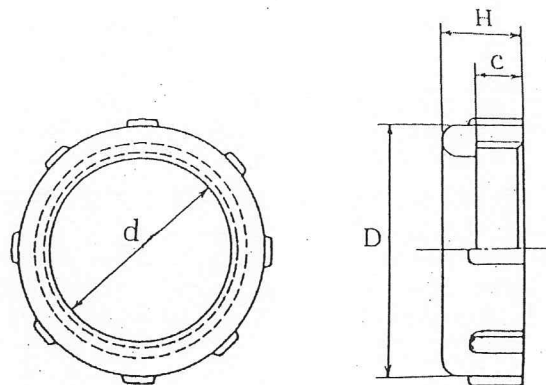
#### 8. Product designation

The designation of the product depends on the name and size of Insulation bushing No.2.

#### 9. Display

For each Insulation bushing No.2, it must be displayed in a manner that does not disappear easily (embossing). The indication shall indicate the abbreviation of the manufacturer's name and the symbol other than the specific electric appliances.

Figure 1 Insulating bushing No. 2



For thin steel conduit

Unit mm

Size	Dimensions of each part						
	D		d		c	H	
					minimum value		
C19	23	±1.0	16	±1.0	6.5	9	±0.45
C25	30		22		7.0	10	±0.5
C31	36		29		8.5	12	
C39	43	±1.5	35	±1.5	9.0	13	
C51	57		48		10.5	15	
C63	70		60		12.0	17	
C75	83		72		14.0	20	

For thick steel conduit

Unit mm

Size	Dimensions of each part						
	D		d		c minimum value	H	
G16	24	±1.0	16	±1.5	6.5	9	±0.45
G22	30		22		7.0	10	±0.5
G28	37		28		9.0	12	
G36	46	36			13		
G42	52	42	10.5		15		
G54	65	53	11.0		16		
G70	81	68	12.0		18		
G82	95	81	13.0		20	±1.0	
G92	110	93	14.0		22		
G104	125	±2.5	105		15.0		24