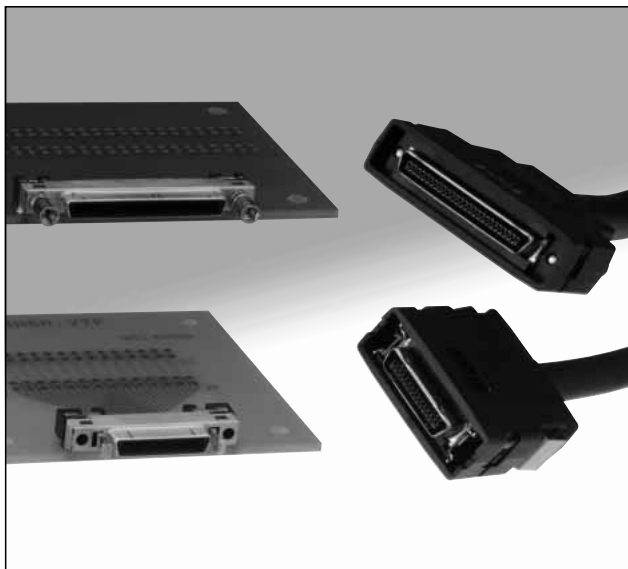


# High speed transmission, 1mm pitch Small Interface Connector

## DH Series



### Overview

DH Series is an impedance controlled interface connector for high speed transmission.

1mm contact mating pitch together with a 0.5mm mounting pitch yields a more compact, lower profile, higher density alternate to conventional half pitch interface connectors. 4 different lock styles are available to meet various applications.

Screw Lock Type  
(Locked with screwdriver)



Screw Lock Type  
(Hand-screw)



One Touch Lock Type  
(Metal Button)



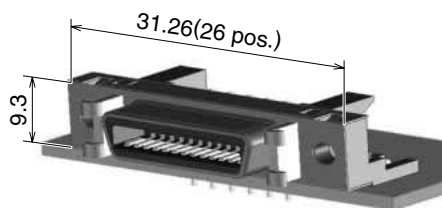
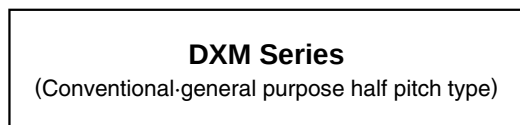
One Touch Lock Type  
(Plastic Button)



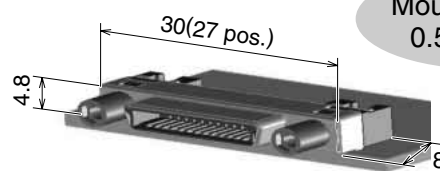
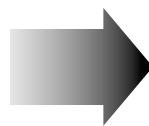
### Features

#### 1. Small Design

Mating face area  
Approx 50% reduced

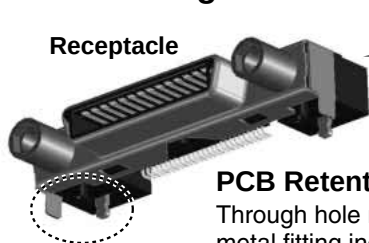


Mating pitch: 1.27mm



Mating pitch: 1.0mm

#### 2. Robust design



##### PCB Retention Force

Through hole mounting for shell and metal fitting increases PCB retention force.

Robust design resists  
wrenching D-shaped opening.



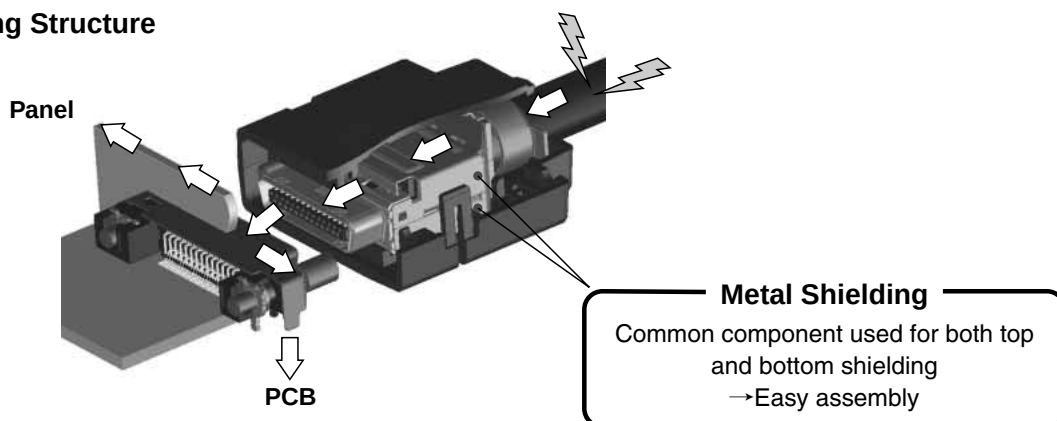
M2 screw



**Robust & Secure Screw Lock**  
Tightening torque: 0.06 to 0.07 N·m max

### 3. Excellent Shielding for EMI Privention

#### ◆Grounding Structure



### 4. Wide variation

There are various variations corresponding to the usage.

#### ●Lock variation

| Lock type      | Cover case                                                      | receptacle |                                |                   |            |
|----------------|-----------------------------------------------------------------|------------|--------------------------------|-------------------|------------|
| Item           | Specification /Part number                                      | Item       | Part number                    |                   |            |
| Screw lock     | Screwdriver type<br>DH-**-CV1B<br>Hand-screw type<br>DH-**-CV2B | Connector  | DH60-**-P / DH80-**-P          |                   |            |
|                |                                                                 | Panel lock | Applicable panel thickness(mm) | Number of washers | Part No.   |
|                |                                                                 |            | 1.4 to 1.6                     | 0                 | DH-LNA     |
|                |                                                                 |            | 0.9 to 1.2                     | 1(t=0.4)          | DH-LNA-W4  |
|                |                                                                 |            | 0.5 to 0.8mm                   | 1(t=0.6)          | DH-LNA-W8  |
|                |                                                                 |            | No panel                       | 1(t=0.8)          | DH-LNA-W16 |
| One touch lock | Metal button<br>DH-**-CT1B<br>Plastic button<br>DH-**-CT2B      | Connector  | DH60A-**-P / DH80A-**-P        |                   |            |

\*Screw lock type and One touch lock type does not mate together.

#### ●Common part

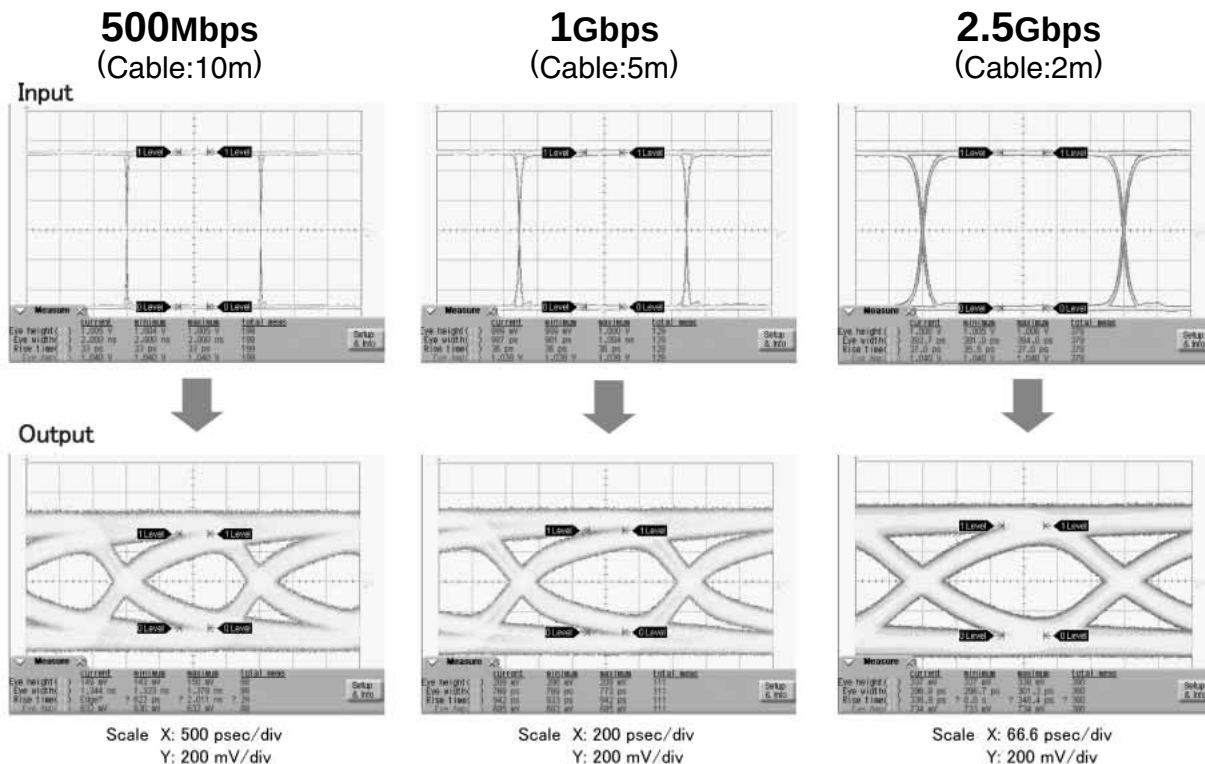
| Lock type      | Plug                                                           |              |              |            | No. of pos. | Clamp metal                      |
|----------------|----------------------------------------------------------------|--------------|--------------|------------|-------------|----------------------------------|
|                | Connector                                                      |              |              |            |             |                                  |
| Item           | Specification / Part number                                    |              |              |            |             | Part No.                         |
| Screw lock     | IDC type                                                       |              |              |            | 17          | DH-17-CMB(6.3)                   |
|                | Cable spec.                                                    | Outer dia.   | Construction | Part No.   | 27          | DH-27-CMB(6.9)<br>DH-27-CMB(7.3) |
|                | Twinax cable                                                   | 0.88 to 0.92 | 7/0.127      | DH30B-***S |             |                                  |
|                | Twisted pair cable                                             | 0.64 to 0.68 | (AWG#28)     | DH32B-***S |             |                                  |
|                | solder type                                                    |              |              |            | 37          | DH-37-CMB(8.8)                   |
| DH40-***S      |                                                                |              |              |            |             |                                  |
| One touch lock | (Developing Pin-variation of the above item is under planning. |              |              |            | 51          | DH-51-CMB(9.6)                   |
|                | Please consult HRS sales.)                                     |              |              |            |             |                                  |

\*The figure in ( ) clamp part number is equal to the cable's outer diameter.

## 5. High Speed Data Transmission

This data is for reference only. The data can differ due to cable or PCB used in evaluation.

### Eye Diagram [CH1-CH2]



### Measurement Condition

#### ◆ Pin Assignment



Pair B  
G - S - S - G

Pair A  
G - S - S - G

G:ground  
S:Signal

Pair A

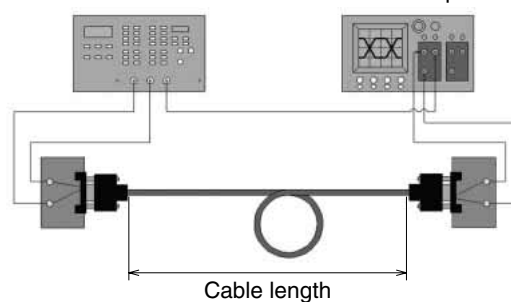
Pair B

#### ◆ Measurement Condition

- Measurement Pair:Deferential Pair A
- Cable:Twinax cable
- Input signal voltage:500mV

Pulse Pattern Generator

Oscilloscope



## ■Specifications

| Ratings                            | Current rating                                                                              |           | 0.5A     |           |           | Operating temperature range       |                                                                                                  | -25℃ to +85℃ |
|------------------------------------|---------------------------------------------------------------------------------------------|-----------|----------|-----------|-----------|-----------------------------------|--------------------------------------------------------------------------------------------------|--------------|
|                                    | Voltage rating                                                                              |           | 125 V AC |           |           | Storage temperature range         |                                                                                                  | -25℃ to +60℃ |
| Item                               | Specification                                                                               |           |          |           |           |                                   | Conditions                                                                                       |              |
| 1.Contact resistance               | ① 50mΩ max.(signal)                                                                         |           |          |           |           |                                   | 100mA(DC or 1,000Hz)                                                                             |              |
| 2.Insulation resistance            | 1000MΩ min.                                                                                 |           |          |           |           |                                   | 100 V DC                                                                                         |              |
| 3.Withstanding voltage             | No flashover or insulation breakdown                                                        |           |          |           |           |                                   | 250 V AC/1minute                                                                                 |              |
| 4.Insertion and with drawal forces |                                                                                             | 17pos.    | 27pos.   | 37pos.    | 51pos.    | Measured by applicable connector. |                                                                                                  |              |
|                                    | Insertion f.                                                                                | 25N max.  | 30N max. | 36N max.  | 43N max.  |                                   |                                                                                                  |              |
|                                    | with drawal f.                                                                              | 2.6N min. | 3N min.  | 3.3N min. | 3.8N min. |                                   |                                                                                                  |              |
| 5.Durability                       | ① ①Contact resistance:70mΩ max.<br>②No damage, cracks or parts dislocation.                 |           |          |           |           |                                   | 1000 cycles                                                                                      |              |
| 6.Vibration                        | ①No electrical discontinuity of 10μs or longer.<br>②No damage, cracks or parts dislocation. |           |          |           |           |                                   | Frequency:10 to 50Hz, single amplitude of 0.75mm, 5min/cycle, total 10 cycles.                   |              |
| 7.Shock                            |                                                                                             |           |          |           |           |                                   | Acceleration of 490m/s², 11ms duration, sine half-wave waveform, 3 cycles in each of the 3 axis. |              |
| 8.Temperature cycle                | ① ①Contact resistance:70mΩ max.<br>②No damage, cracks or parts dislocation.                 |           |          |           |           |                                   | Temperature: -55℃→+5℃ to +35℃→+85℃→5℃ to+35℃<br>Time:30→5→30→5(Minutes) 5cycles                  |              |
| 9.Humidity (Steady state)          | ①Insulation resistance:100MΩmin.<br>②No damage, cracks or parts dislocation.                |           |          |           |           |                                   | 96 hours at 40℃ And RH 90% to 95%.                                                               |              |
| 10.Salt spray test                 | ①Contact resistance:100mΩ max.                                                              |           |          |           |           |                                   | 5% salt water solution for 48 hours.                                                             |              |

① Excludes wire conductor resistance. \*Unless otherwise specified, refer to JIS C 5402

2 Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

## ■Materials

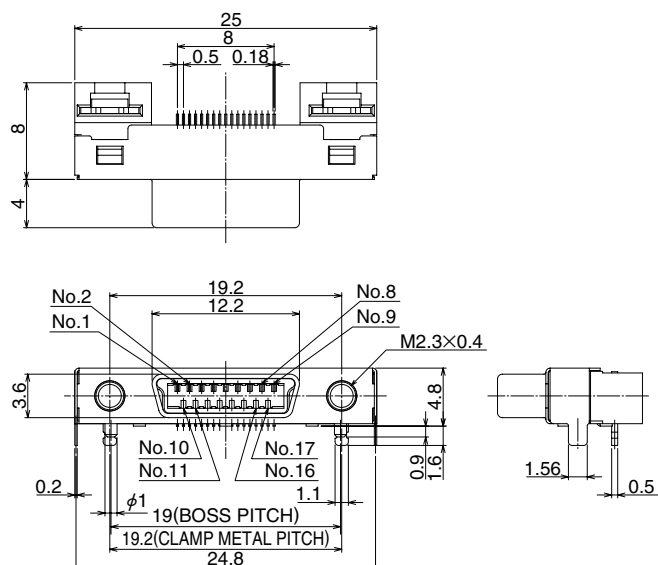
| Products                                                              | Components           | Material            | Finish                | Remarks |
|-----------------------------------------------------------------------|----------------------|---------------------|-----------------------|---------|
| Screw lock type receptacle connector<br>(DH60-***P / DH80-***P)       | Insulator            | Polyamide resin     | Black                 | UL94V-0 |
|                                                                       | Contacts             | Copper alloy        | Selective gold plated | —       |
|                                                                       | Shell                | Stainless steel     | Tin plated            | —       |
|                                                                       | Metal fitting        | Stainless steel     | Selective Tin plated  | —       |
| One Touch Lock Type Receptacle connector<br>(DH60A-***P / DH80A-***P) | Insulator            | Polyamide resin     | Black                 | UL94V-0 |
|                                                                       | Contacts             | Copper alloy        | selective gold plated | —       |
|                                                                       | Shell                | Stainless steel     | Tin plated            | —       |
|                                                                       | Metal fitting        | Brass               | Tin plated            | —       |
|                                                                       | Metal grounding post | Steel               | Nickel plated         | —       |
| Plug connector<br>(DH3*B-***S)                                        | Insulator            | Polyamide resin     | Black                 | UL94V-0 |
|                                                                       | Contacts             | Copper alloy        | Selective gold plated | —       |
|                                                                       | Rear insert          | PBT resin           | Black,Natural         | UL94V-0 |
|                                                                       | Shell                | Stainless steel     | Nickel plated         | —       |
| Screw lock type cover case<br>(DH-**-CV1B)                            | Cover                | Polycarbonate resin | Black                 | UL94V-0 |
|                                                                       | Shield               | Stainless steel     | Nickel plated         | —       |
|                                                                       | Screw lock           | Steel               | Nickel plated         | —       |
|                                                                       | Tapping screw        | Steel               | Black chromate(Cr+3)  | —       |
| Lock type cover case<br>(DH-**-CV2B)                                  | Cover                | Polycarbonate resin | Black                 | UL94V-0 |
|                                                                       | Shield               | Stainless steel     | Nickel plated         | —       |
|                                                                       | Screw lock           | Steel               | Nickel plated         | —       |
|                                                                       | Screw insulator      | Polyamide resin     | Black                 | UL94V-0 |
|                                                                       | Tapping screw        | Steel               | Black chromate(Cr+3)  | —       |
| One Touch Lock Type metal button cover case<br>(DH-**-CT1B)           | Cover                | Polycarbonate resin | Black                 | UL94V-0 |
|                                                                       | Shield               | Stainless steel     | Nickel plated         | —       |
|                                                                       | Lock spring          | Stainless steel     | —                     | —       |
|                                                                       | Tapping screw        | Steel               | Black chromate(Cr+3)  | —       |
| One Touch Lock Type plastic button cover case<br>(DH-**-CT2B)         | Cover                | Polycarbonate resin | Black                 | UL94V-0 |
|                                                                       | Shield               | Stainless steel     | Nickel plated         | —       |
|                                                                       | Lock spring          | Stainless steel     | —                     | —       |
|                                                                       | Button               | Polycarbonate resin | Black                 | UL94V-0 |
|                                                                       | Tapping screw        | Steel               | Black chromate(Cr+3)  | —       |
| Lock screw<br>(DH-LNA***)                                             | Screw lock           | Steel               | Nickel plated         | —       |
|                                                                       | Waher                | Steel               | Nickel plated         | —       |
|                                                                       | Spring washer        | Steel               | Nickel plated         | —       |
| Metal clamp(DH-CMB(**))                                               | Metal clamp          | Brass               | —                     | —       |

## Screw lock type

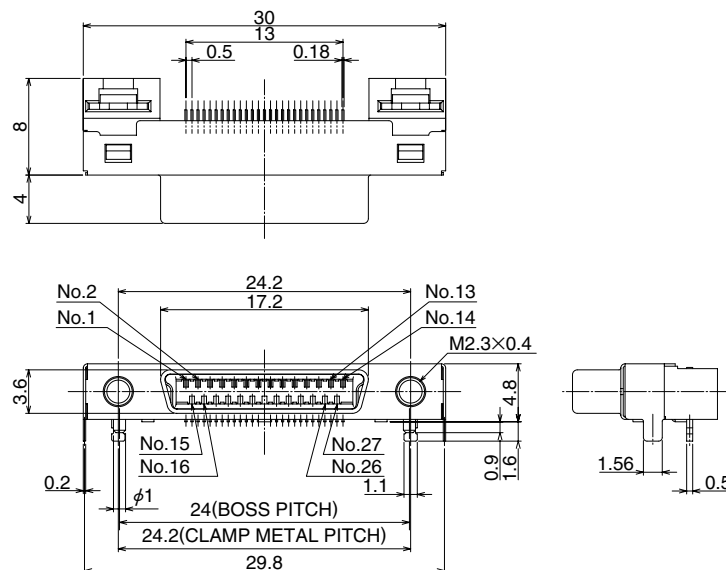
## ■ Receptacle connector

## ● Right angle type

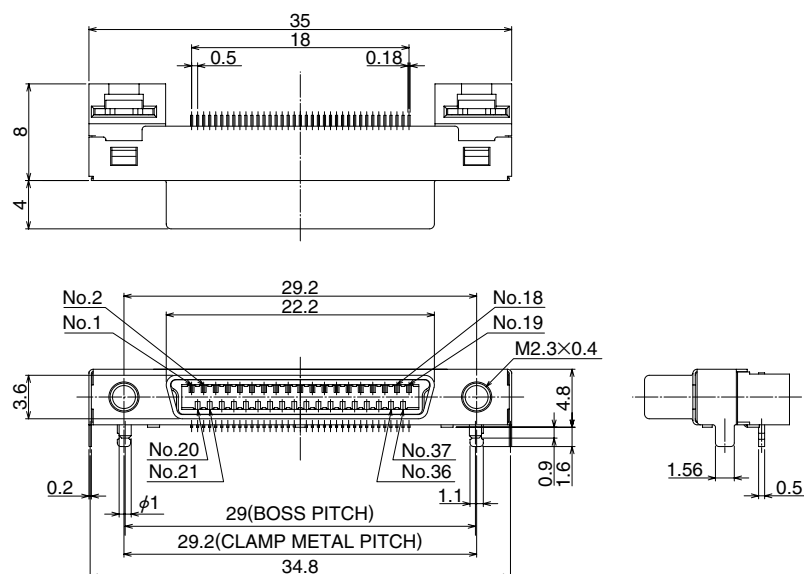
[17pos. DH60-17P]



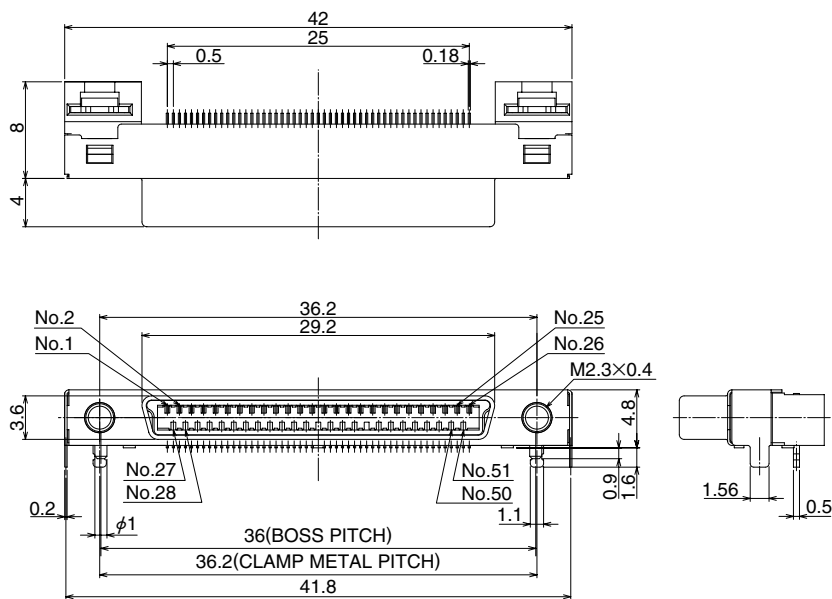
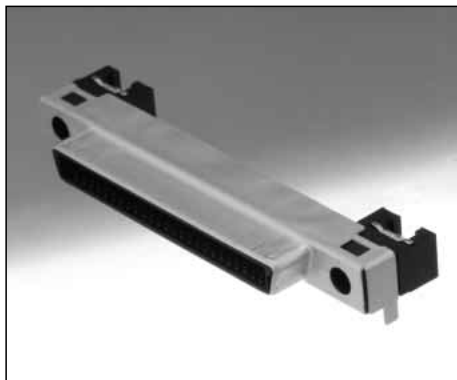
[27pos. DH60-27P]



[37pos. DH60-37P]

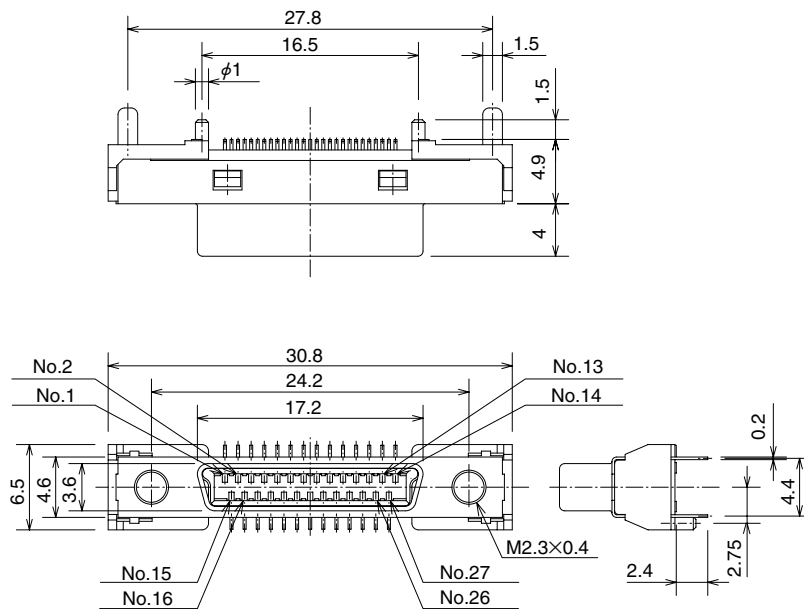
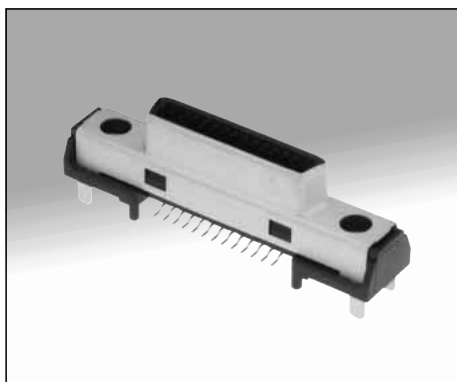


[51pos. DH60-51P]



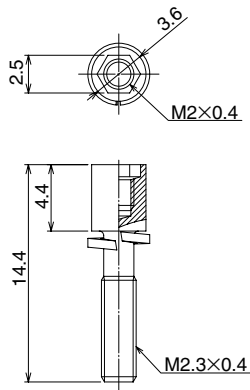
● Straight type

[27pos. DH80-27P]

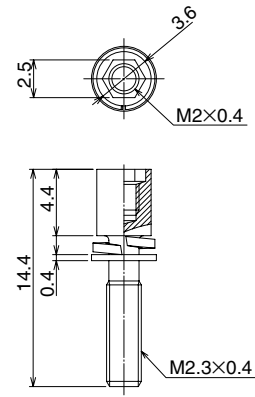


## ■ Lock screw

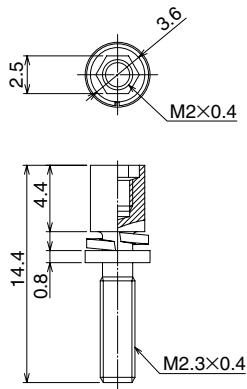
[Applicable panel thickness 1.4 to 1.6mm:DH-LNA]



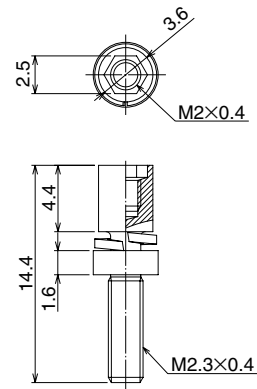
[Applicable panel thickness 0.9 to 1.2mm:DH-LNA-W4]



[Applicable panel thickness 0.5 to 0.8mm:DH-LNA-W8]



[No panel:DH-LNA-W16]



## ■ Cover case

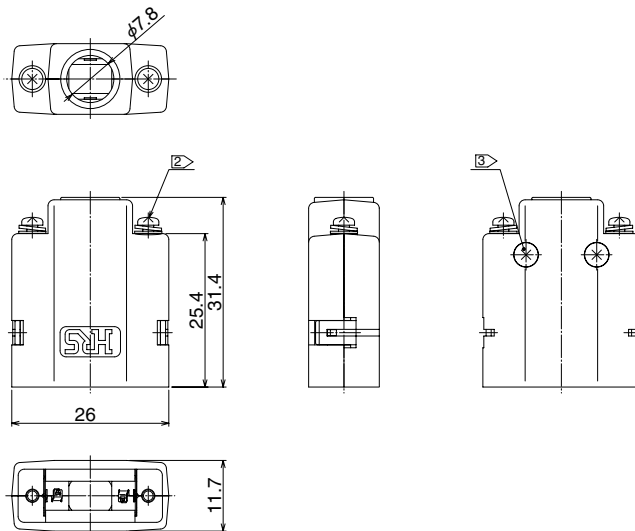
### ● Screw lock

[17pos. DH-17-CV1B]

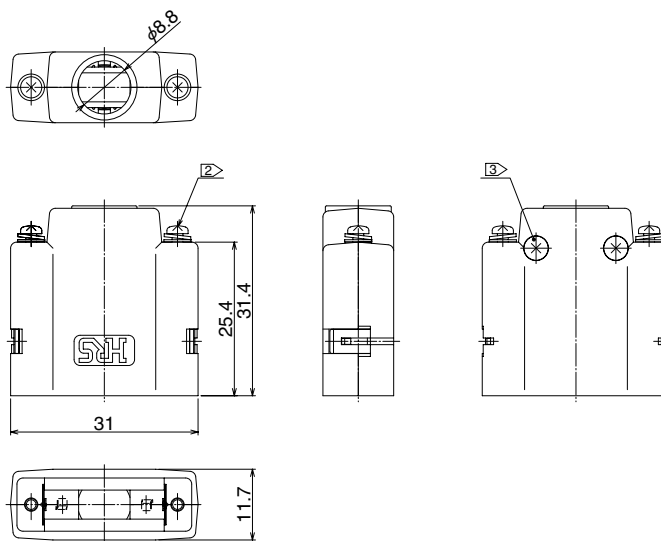


Note 1. This product is delivered separately.

- ② A recommended screw tightening torque to lock screw(DH-LNA\*\*\*) should be from 0.06 to 0.07N·m.
- ③ A recommended screw tightening torque for covers to be from 0.1 to 0.15N·m.

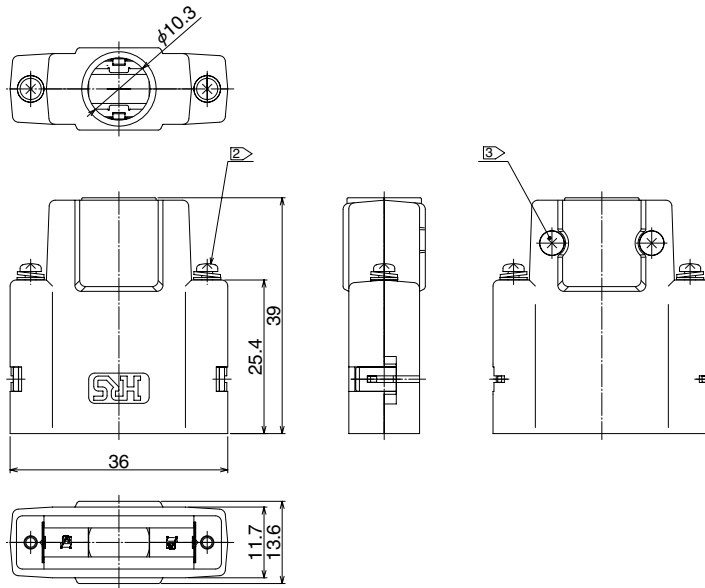


[27pos. DH-27-CV1B]

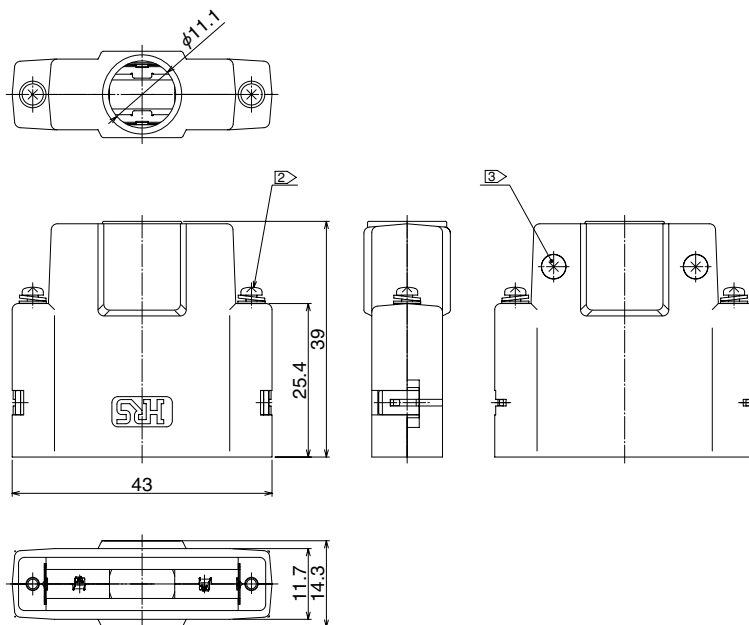




[37pos. DH-37-CV1B]



[51pos. DH-51-CV2B]



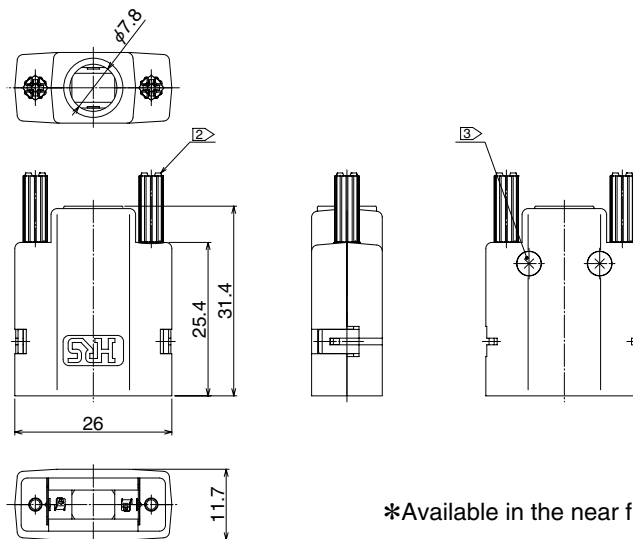
## ● Hand screw

### [17pos. DH-17-CV2B]



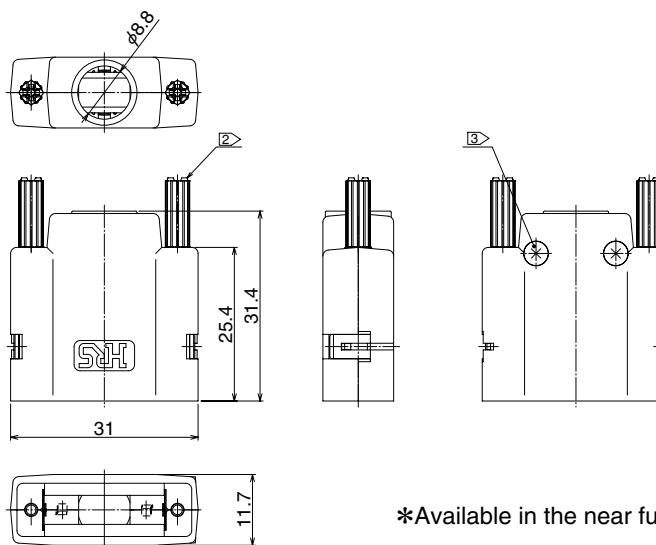
Note 1. This product is delivered separately.

- ② A recommended screw tightening torque to the lock screws to be from 0.06 to 0.07N·m.
- ③ A recommended screw tightening torque for covers to be from 0.1 to 0.15N·m.



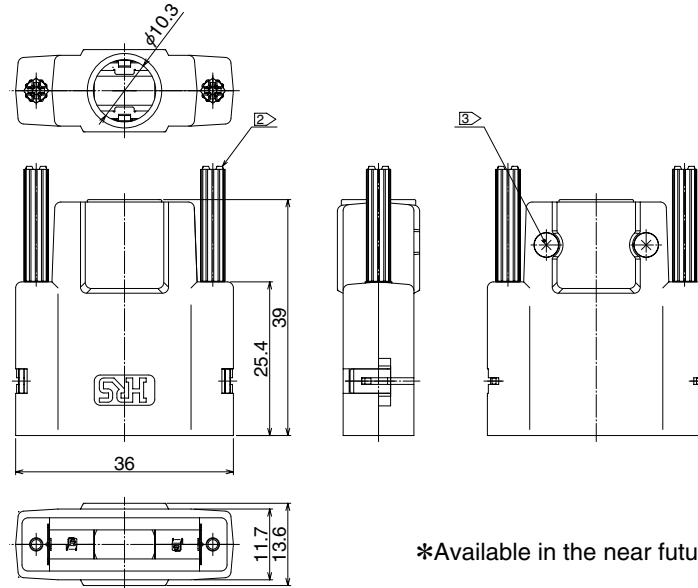
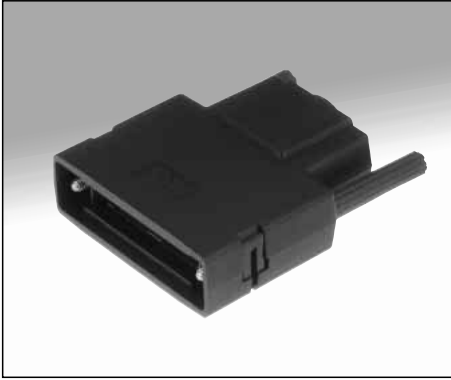
\*Available in the near future

### [27pos. DH-27-CV2B]



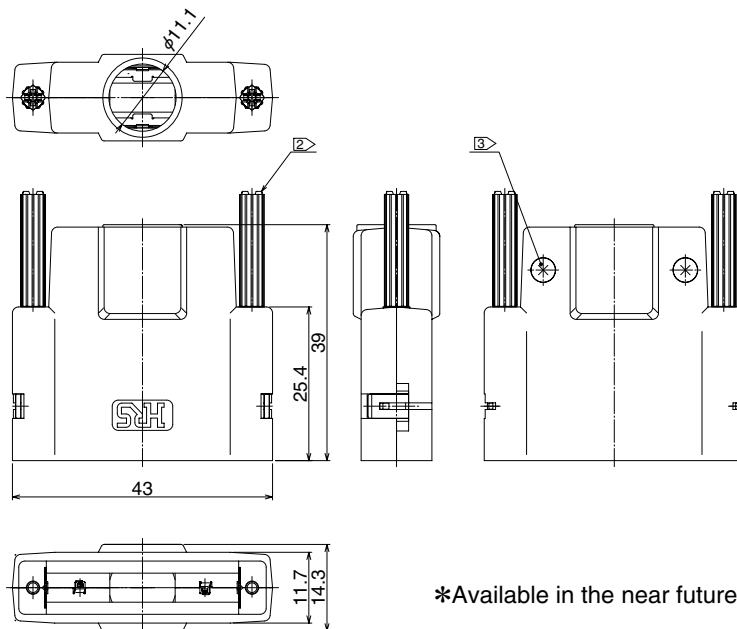
\*Available in the near future

[37pos. DH-37-CV2B]



\*Available in the near future

[51pos. DH-51-CV2B]



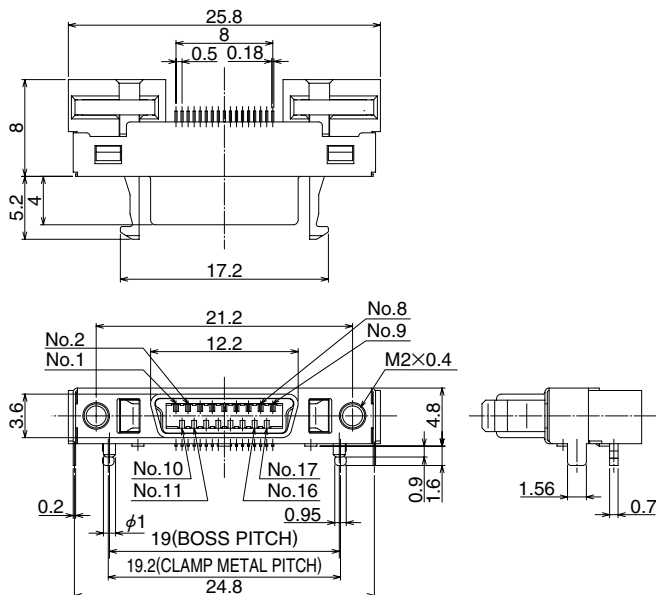
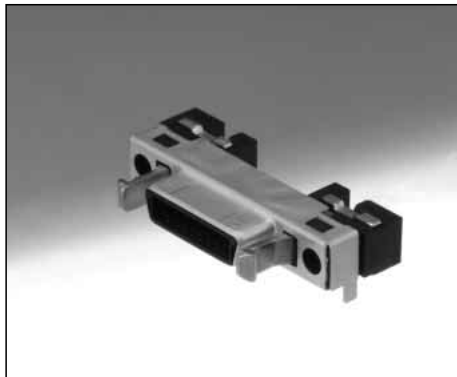
\*Available in the near future

## One Touch Lock Type

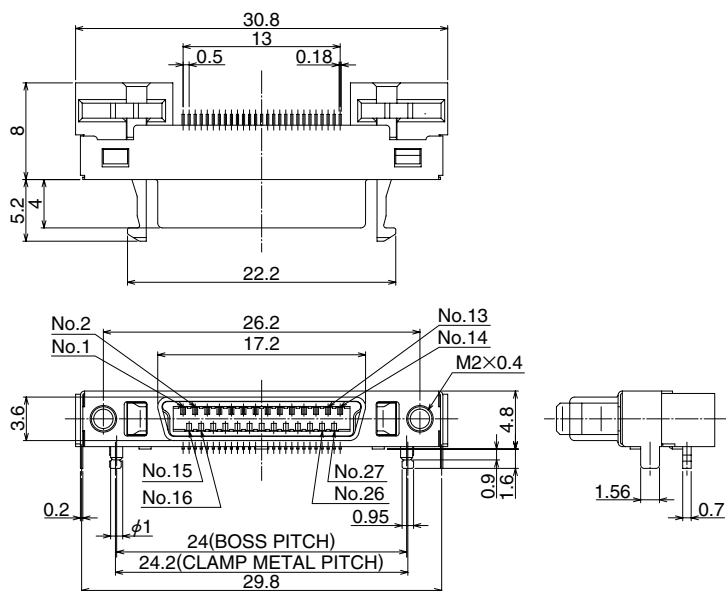
### ■ Receptacle connector

#### ● Right angle type

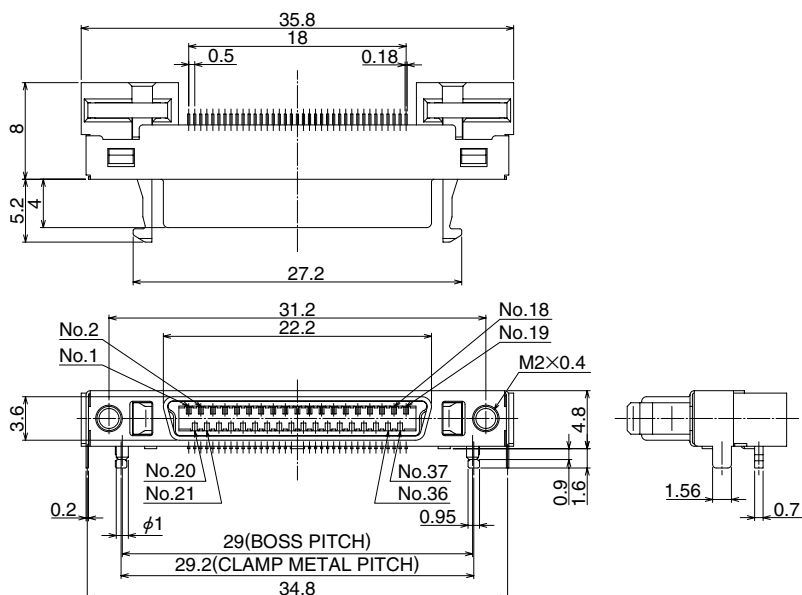
[17pos. DH60A-17P]



[27pos. DH60A-27P]



[37pos. DH60A-37P]





## ■ Cover case

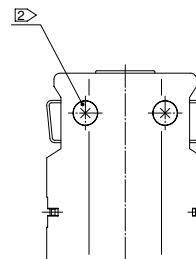
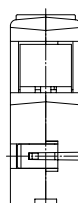
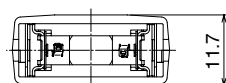
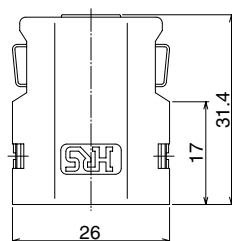
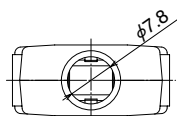
### ● Metal button type

[17pos. DH-17-CT1B]

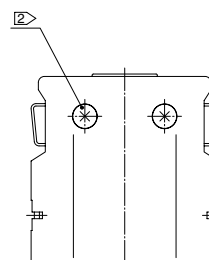
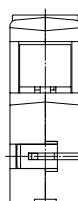
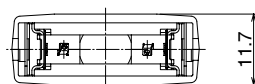
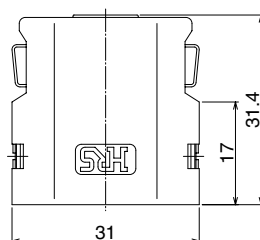
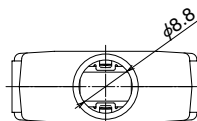


Note 1. This product is delivered separately.

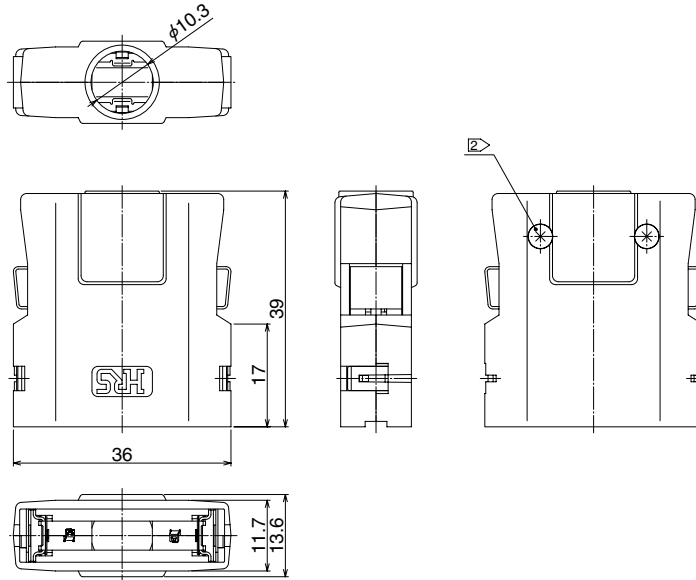
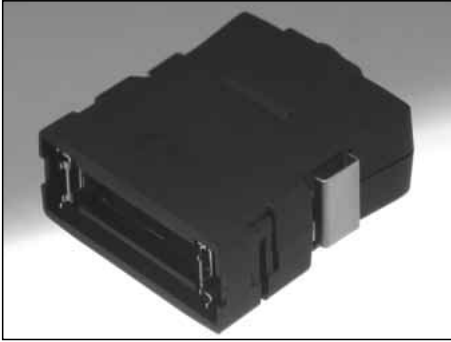
② A recommended screw tightening torque for covers to be from 0.1 to 0.15N·m.



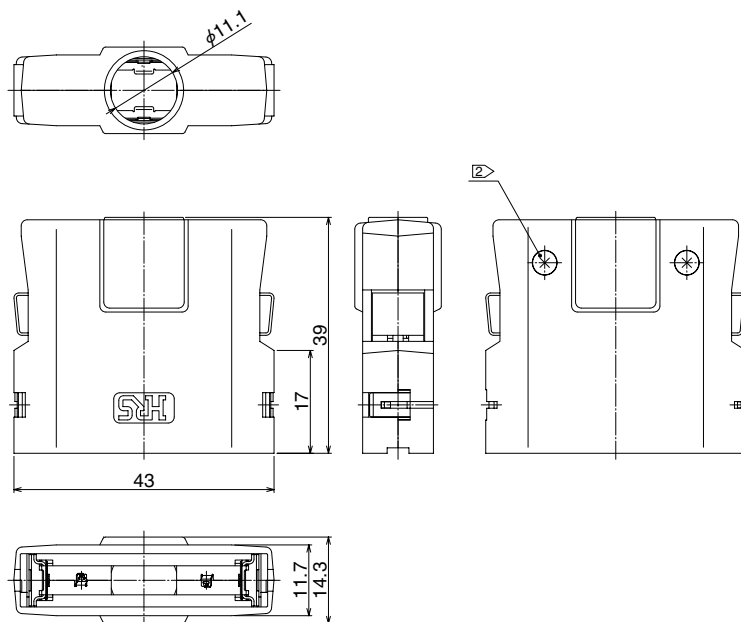
[27pos. DH-27-CT1B]



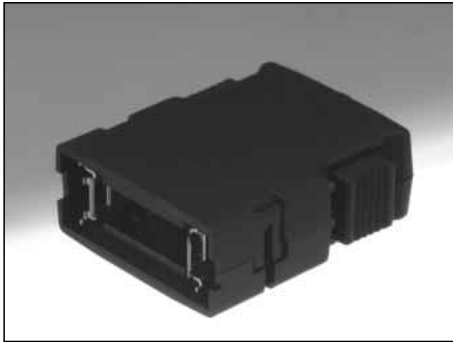
[37pos. DH-37-CT1B]



[51pos. DH-51-CT1B]

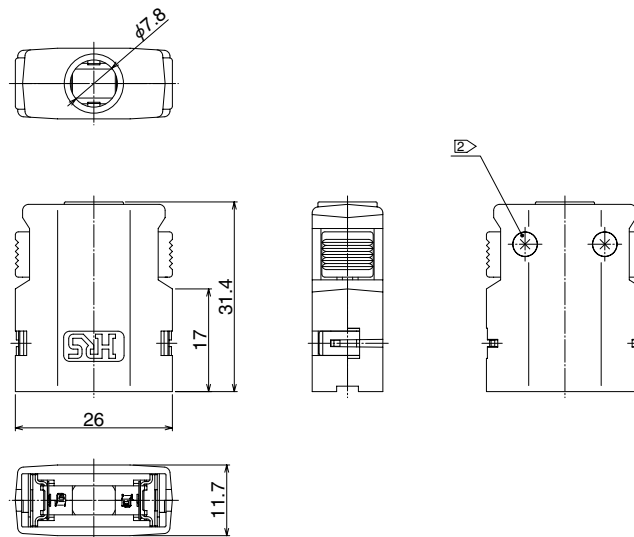


● Plastic button type  
[17pos. DH-17-CT2B]

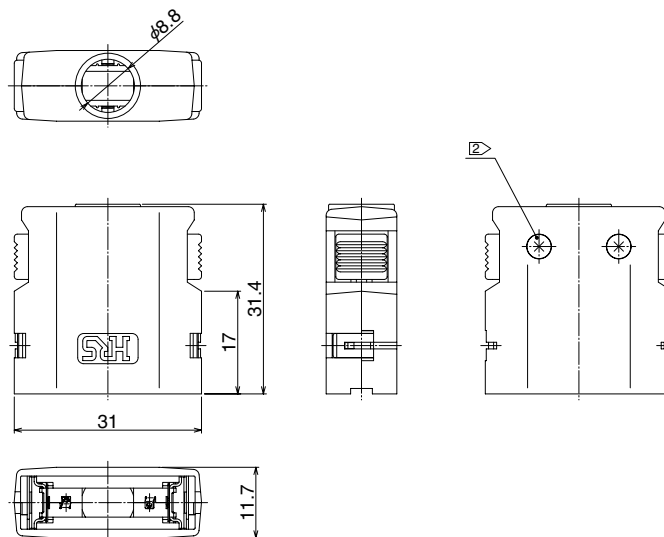
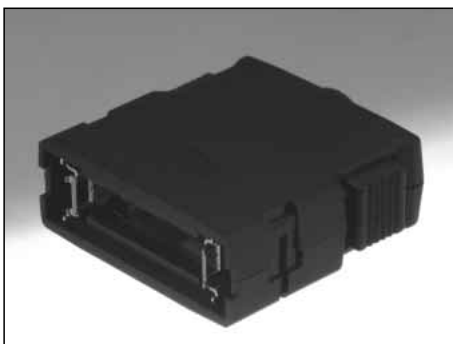


Note 1. This product is delivered separately.

② A recommended screw tightening torque for covers to be from 0.1 to 0.15N·m.

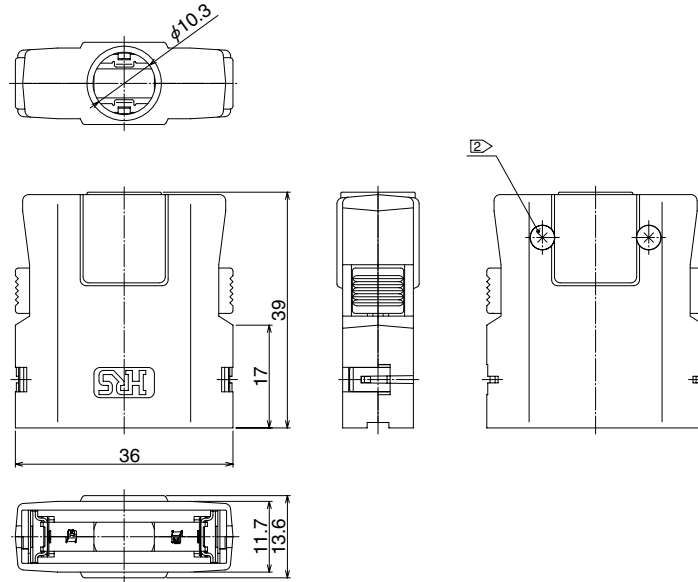


[27pos. DH-27-CT2B]

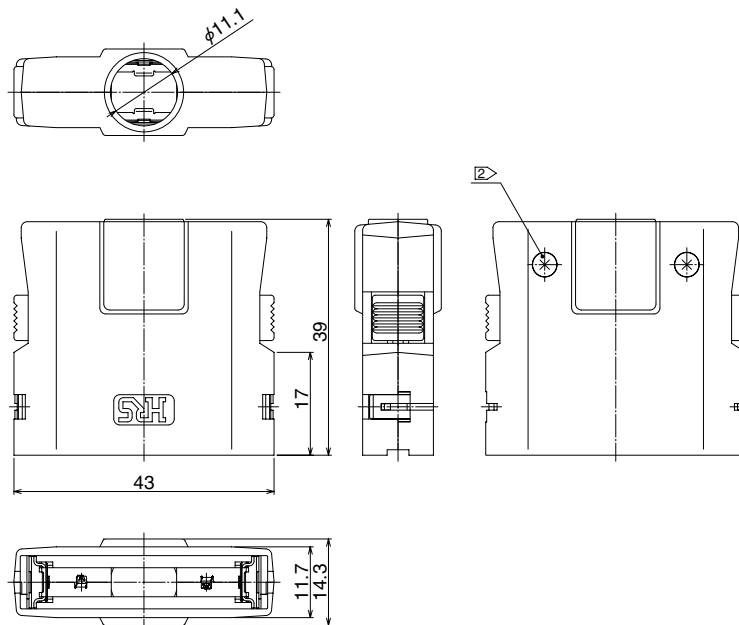




[37pos. DH-37-CT2B]



[51pos. DH-51-CT2B]



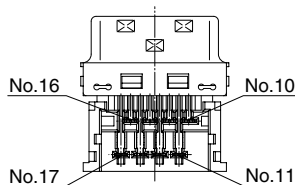
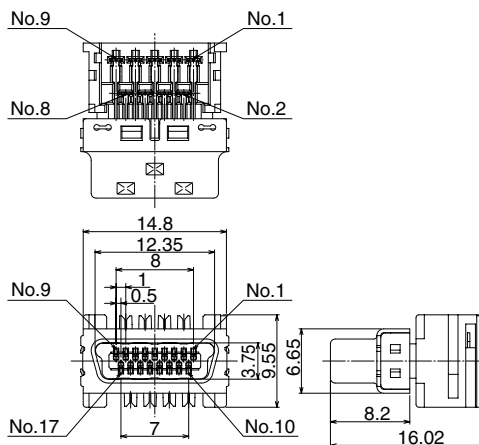
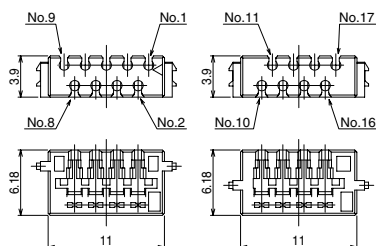
## ■ Plug unit

### ● IDC type

[17pos. DH30B-17S]



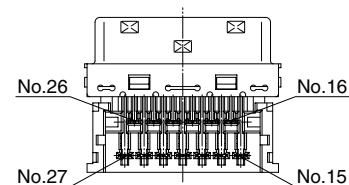
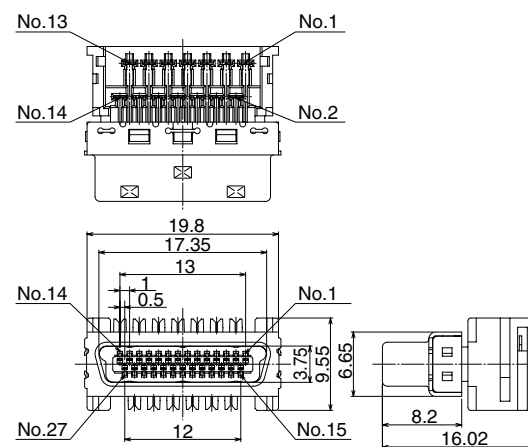
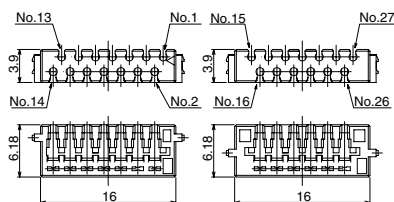
#### Bundled parts



[27pos. DH30B-27S, DH30B-27S]



#### Bundled parts

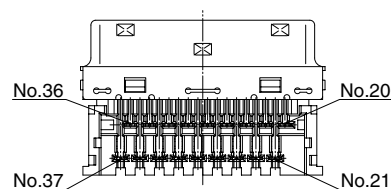
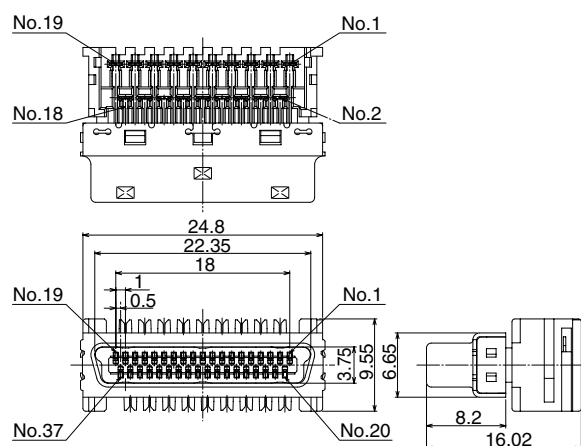
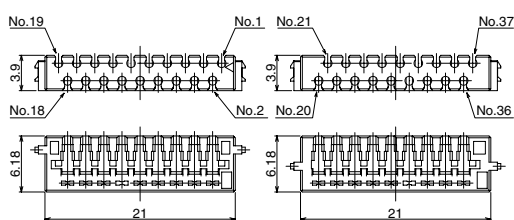


\*DH30B-27S and DH32B-27S are different holes in the attached parts.

# [37pos. DH30B-37S]



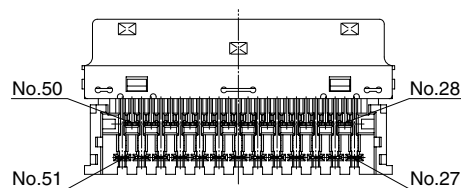
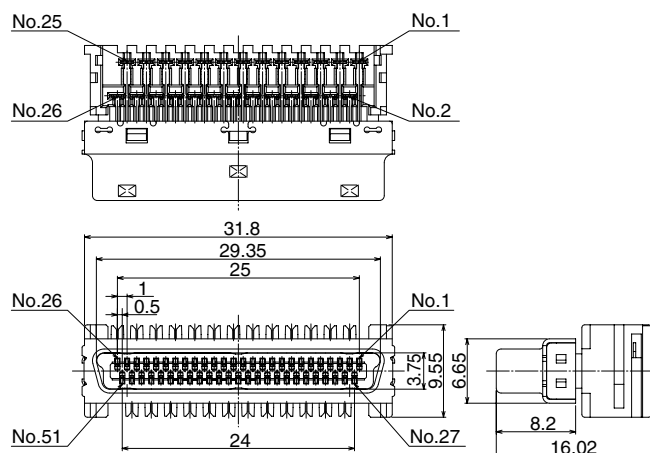
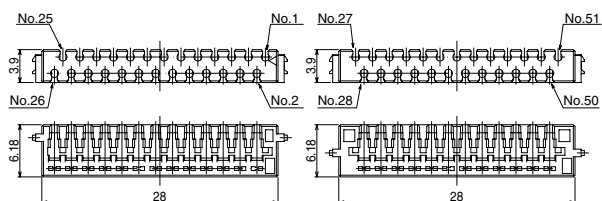
## Bundled parts



# [51pos. DH30B-51S]

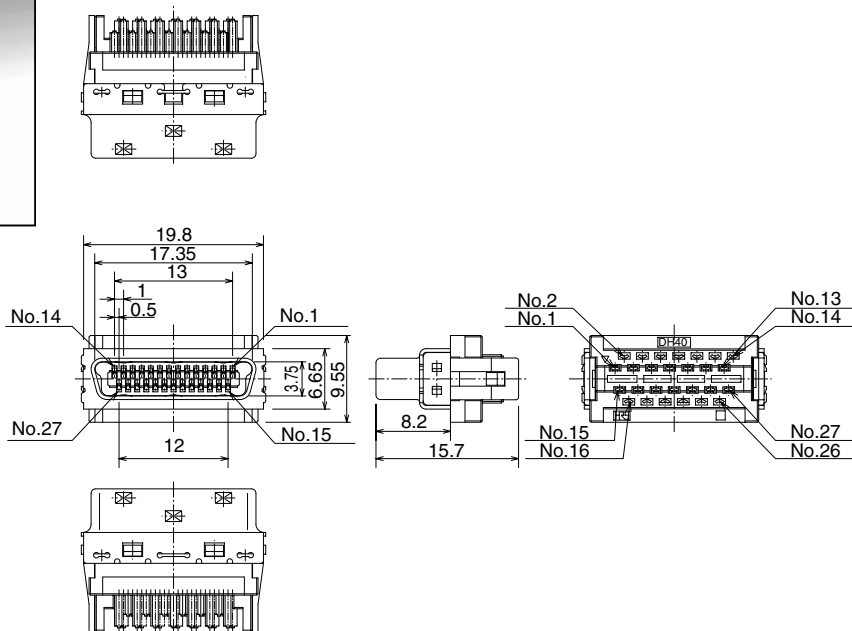


## Bundled parts

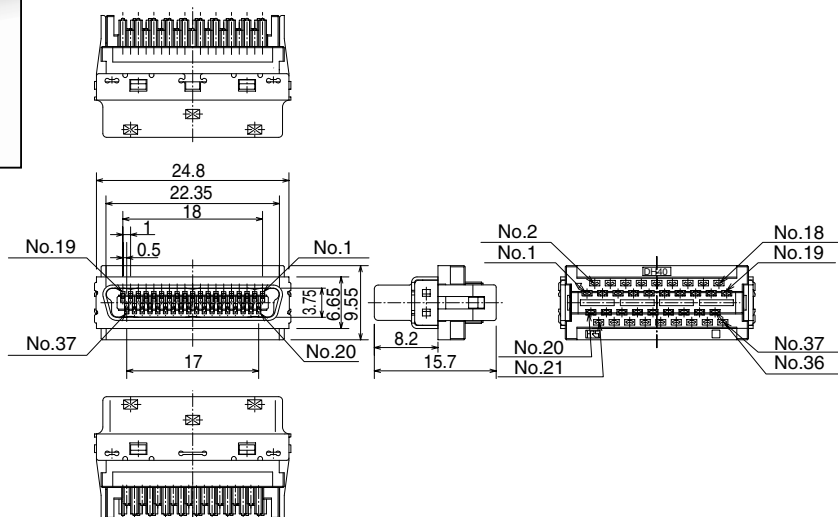


## ● Solder contact type

[27pos. DH40-27S]

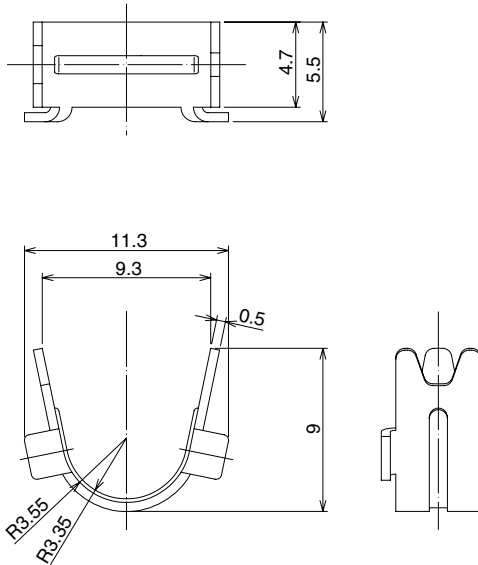


[37pos. DH40-37S]

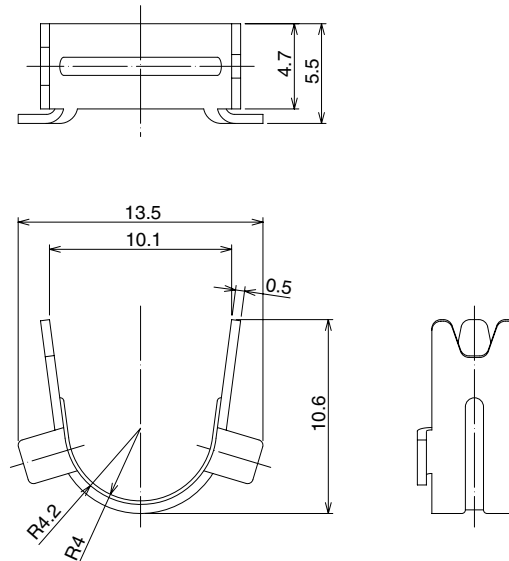


## ■Metal clamp

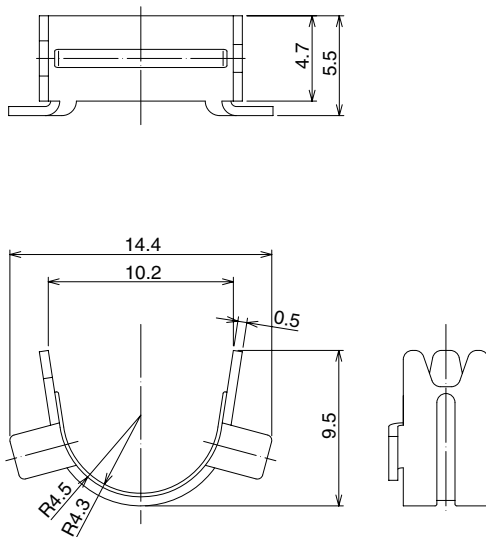
[17pos. DH-17-CMB(6.3)]  
(Cable outer diameter 6.3mm)



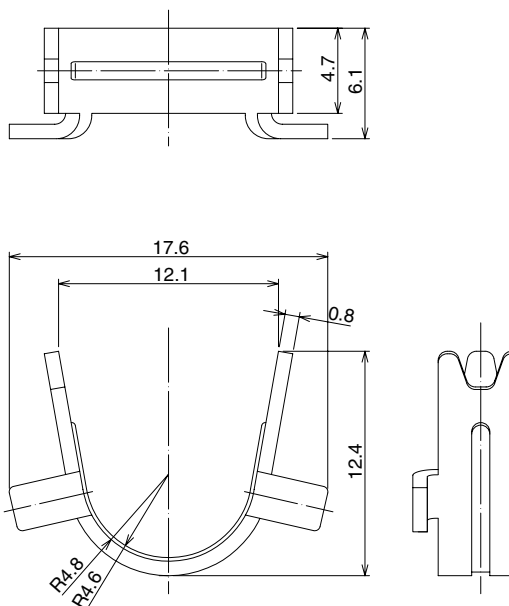
[27pos. DH-27-CMB(6.9)]  
(Cable outer diameter 6.9mm)



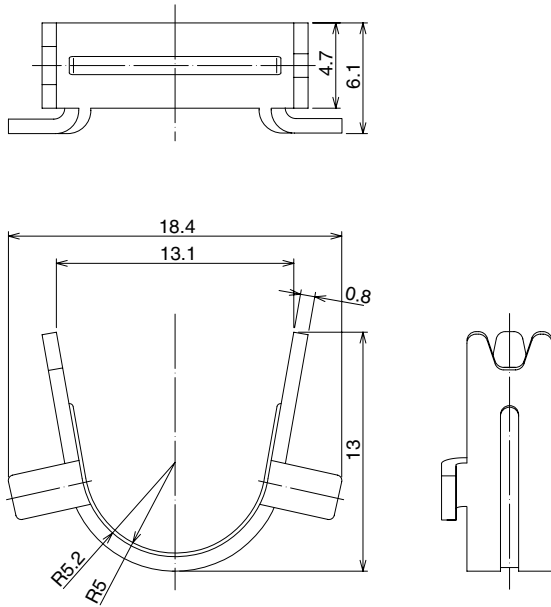
[27pos. DH-27-CMB(7.3)]  
(Cable outer diameter 7.3mm)



[37pos. DH-37-CMB(8.8)]  
(Cable outer diameter 8.8mm)



**[51pos. DH-51-CMB(9.6)]**  
**(Cable outer diameter 9.6mm)**





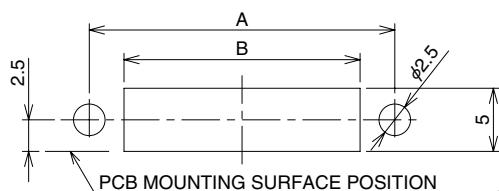
## ■Panel cutout

### ●Screw lock type

#### Panel cutout for reference (Right angle type, Straight type)

(The dimension is specified based on the center of the connector interface)

DH-LNA(CL244-0045-0-00)

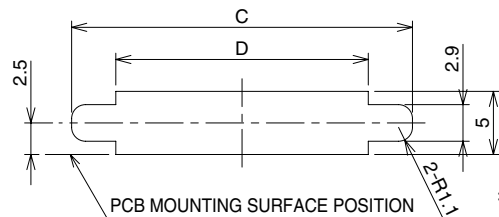


\*Please set piercing R as less than R1.

DH-LNA-W4(CL244-0046-2-00)

DH-LNA-W8(CL244-0004-2-00)

DH-LNA-W16(CL244-0005-5-00)



\*Please set piercing R as less than R1.

#### A·B·C·D dimension table

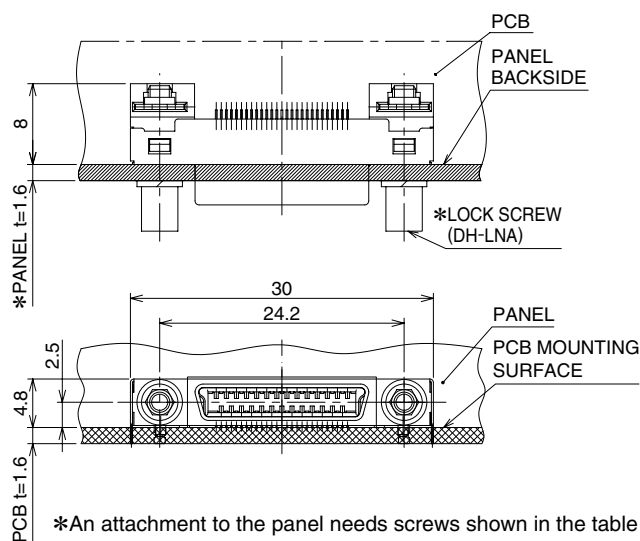
Unit:mm

| Number of contacts | A    | B    | C  | D  |
|--------------------|------|------|----|----|
| 17                 | 19.2 | 13.7 | 22 | 15 |
| 27                 | 24.2 | 18.7 | 27 | 20 |
| 37                 | 29.2 | 23.7 | 32 | 25 |
| 51                 | 36.2 | 30.7 | 39 | 32 |

#### Connector mounted on PCB

(For example, panel thickness is 1.6mm)

\*The drawing is shown sample of DH60-27P.

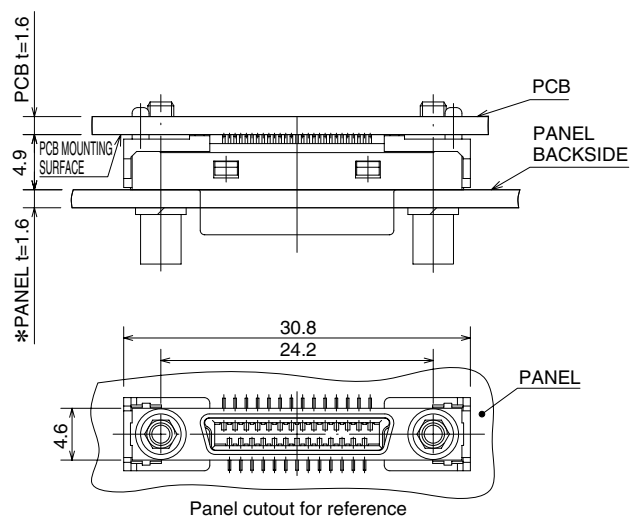


\*An attachment to the panel needs screws shown in the table below.

| Applicable panel thickness(mm) | Part No.   | Code No.      |
|--------------------------------|------------|---------------|
| 1.4 to 1.6                     | DH-LNA     | 244-0045-0-00 |
| 0.9 to 1.2                     | DH-LNA-W4  | 244-0046-2-00 |
| 0.5 to 0.8                     | DH-LNA-W8  | 244-0004-2-00 |
| No panel                       | DH-LNA-W16 | 244-0005-5-00 |

\*The recommended screw tightening torque to be from 0.12 to 0.3 N·m

\*DH80-27P

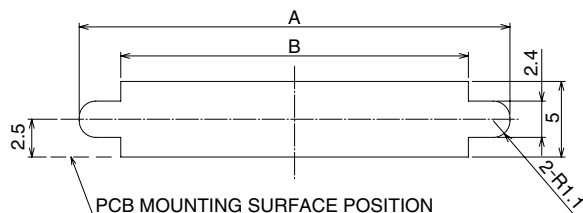




## ●One Touch Lock Type

### Panel cutout for reference (Right angle type, Straight type)

(The dimension is specified based on the center of the connector interface)



\*Please set piercing R as less than R1.

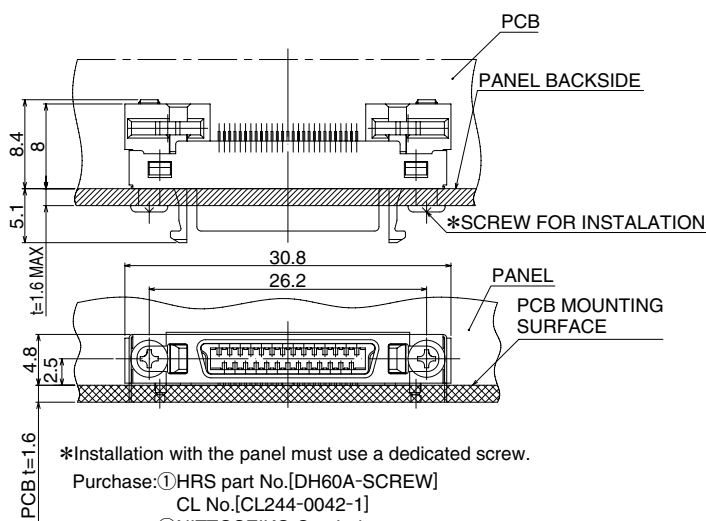
**A·B dimension table**

Unit:mm

| Number of contacts | A    | B  |
|--------------------|------|----|
| 17                 | 23.5 | 18 |
| 27                 | 28.5 | 23 |
| 37                 | 33.5 | 28 |
| 51                 | 40.5 | 35 |

### Connector mounted on PCB

\*DH60A-27P is representative examples.



\*Installation with the panel must use a dedicated screw.

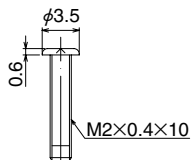
Purchase:①HRS part No.[DH60A-SCREW]

CL No.[CL244-0042-1]

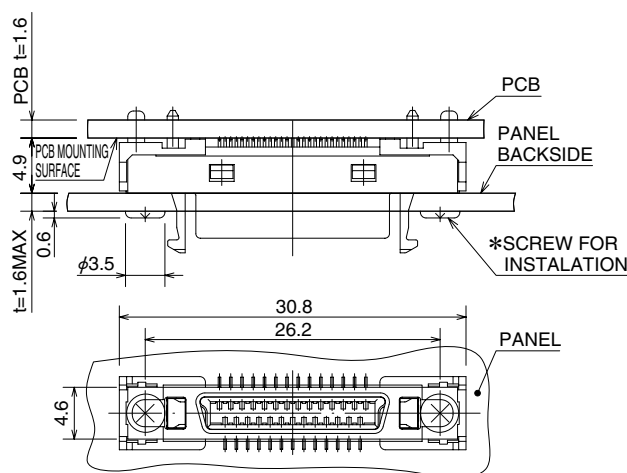
②NITTOSEIKO Co., Ltd.

[FINE PAN HEAD MACHINE SCREW 2 TYPES]

\*SCREW FOR INSTALLATION



\*DH80A-27P



\*Installation with the panel must use a dedicated screw.

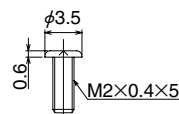
Purchase:①HRS part No.[DH80A-SCREW]

CL No.[CL244-0059-4]

②NITTOSEIKO Co., Ltd.

[FINE PAN HEAD MACHINE SCREW 2 TYPES]

\*SCREW FOR INSTALLATION



## ■Applicable tools

|   | Process                    | Part No.                                                                                 | CL No.       |
|---|----------------------------|------------------------------------------------------------------------------------------|--------------|
| 1 | Cable end processing       | manual work                                                                              |              |
| 2 | Upper level wire arranging | wire arranging tool : DH/CA-MO                                                           | CL902-2183-0 |
| 3 | Upper level press fitting  |                                                                                          |              |
| 4 | Lower level wire arranging |                                                                                          |              |
| 5 | Lower level press fitting  |                                                                                          |              |
| 6 | Cable cutting              | manual work(nipper etc.)                                                                 |              |
| 7 | IDC                        | ① IDC-clamping tool:DH/IDCK-MP                                                           | CL902-2185-5 |
|   |                            | ② attachment for 17pos:DH-17UNIT                                                         | CL902-2186-8 |
|   |                            | attachment for 27pos:DH-27UNIT                                                           | CL902-2187-0 |
|   |                            | attachment for 37pos:DH-37UNIT                                                           | CL902-2188-3 |
|   |                            | attachment for 51pos:DH-51UNIT                                                           | CL902-2189-6 |
|   |                            | ③ HI-FLEX termination press<br>(Select appropriate attachment of each pin count from ②.) | CL550-0082-2 |
|   |                            |                                                                                          |              |
| 8 | Cable clamping             | ① IDC-clamping tool:DH/IDCK-MP                                                           | CL902-2185-5 |
|   |                            | ② attachment for DH-17-CMB(6.3):DH-17-CMB(6.3)UNIT                                       | CL902-2190-5 |
|   |                            | attachment for DH-27-CMB(6.9):DH-27-CMB(6.9)UNIT                                         | CL902-2194-6 |
|   |                            | attachment for DH-27-CMB(7.3):DH-27-CMB(7.3)UNIT                                         | CL902-2191-8 |
|   |                            | attachment for DH-37-CMB(8.8):DH-37-CMB(8.8)UNIT                                         | CL902-2192-0 |
|   |                            | attachment for DH-51-CMB(9.6):DH-51-CMB(9.6)UNIT                                         | CL902-2193-3 |
|   |                            | ③ HI-FLEX termination press<br>(Select appropriate attachment of each pin count from ②.) | CL550-0082-2 |
| 9 | Cover attaching            | manual work(torque driver etc.)                                                          |              |

\*Customers already having HI-FLEX termination press can apply it to this product assembly.

\*Each ① and ③ of 7. IDC and 8. Clamping are the same tools. All the parts ①, ② and ③ are required for each 7. IDC and 8.

Clamping processes for mass-production.



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<http://www.hirose.de>

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Phone : 44-1908-369060  
Fax : 44-1908-369078  
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<http://www.hirose-china.com.cn>

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1501-02, Cross Tower Building, 318 Fuzhou Road, Huang Pu District, Shanghai 200001  
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<http://www.hirose-china.com.cn>

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Fax : 86-755-8207-0873  
<http://www.hirose-china.com.cn>

**HONG KONG:**

**HIROSE ELECTRIC HONGKONG TRADING CO., LTD.**

Unit 1102 A&B, Energy Plaza, 92 Granville Road, Tsim Sha Tsui East, Kowloon  
Phone : 852-2803-5338  
Fax : 852-2591-6560  
<http://www.hirose-hongkong.com.hk>

**TAIWAN:**

**HIROSE ELECTRIC TAIWAN CO., LTD.**

103 8F, No.87, Zhengzhou Rd., Taipei  
Phone : 886-2-2555-7377  
Fax : 886-2-2555-7350  
<http://www.hirose-taiwan.com.tw>

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Phone : 65-6324-6113  
Fax : 65-6324-6123  
<http://www.hirose-singapore.com.sg>

**KOREA:**

**HIROSE KOREA CO., LTD.**

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<http://www.hirose.com>  
<http://www.hirose-connectors.com>

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# DH シリーズ ハーネス治具設置メーカー 一覧

2012/04/1 現在  
as of Apr. 1, 2012

## List of Cable Assembly House for DH Series

| 地域<br>Region | 対応メーカー / 代理店<br>Assy House/Distributor          | 住所<br>Address                                                                                                                | 連絡先<br>Contact                          | ホームページアドレス<br>HP                                                                                                      |
|--------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 日本<br>Japan  | 日立電線ファインテック株式会社<br>Hitachi Cable Fine-Tech,Ltd. | 〒319-1411<br>茨城県日立市川尻町4-10-1<br><br>4-10-1,Kawajiricho,<br>Hitachi-Shi, Ibaraki,<br>319-1411, Japan                          | TEL:0294-42-5480<br>FAX:0294-43-6169    | <a href="http://www.fine.hitachi-cable.co.jp/">http://www.fine.hitachi-cable.co.jp/</a>                               |
|              | 株式会社 マルニックス<br>Marunix Co.,Ltd.                 | 〒343-0011<br>埼玉県越谷市増林6794-2<br><br>6794-2, Masubayashi,<br>Koshigaya-Shi, Saitama,<br>343-0011, Japan                        | TEL:048-965-0200<br>FAX:048-965-2327    | <a href="http://www.marunix.co.jp">http://www.marunix.co.jp</a>                                                       |
|              | 平河ヒューテック株式会社<br>HIRAKAWA-HEWTECH CORP.          | 〒140-8551<br>東京都品川区南大井3-28-10<br>JK大森ビル<br><br>JK OomoriBldg, 3-28-10,<br>Minami-oi, Shinagawa-Ku,<br>Tokyo, 140-8511, Japan | TEL:03-5493-1721<br>FAX:03-5493-1702    | <a href="http://www.hewtech.co.jp/index.html">http://www.hewtech.co.jp/index.html</a>                                 |
|              | インターワイヤード株式会社<br>INTERWAIRERD.CO.,LTD.          | 〒140-8547<br>東京都品川区南大井5-19-8<br><br>5-19-8,Minami-oi,<br>Shinagawa-Ku, Tokyo,<br>140-8547, Japan                             | TEL:03-3761-6787(代)<br>FAX:03-3765-7873 | <a href="http://www.interwired.co.jp/electricwire/index.html">http://www.interwired.co.jp/electricwire/index.html</a> |
|              | 日星電気株式会社<br>NISSEI ELECTRIC CO.,LTD.            | 〒432-8006<br>静岡県浜松市西区大久保町<br>1509番地<br><br>1509, Ookubo-Cho,<br>Nishi-Ku, Hamamatsu-Shi,<br>Shizuoka, 432-8006, Japan        | TEL:053-485-4705(代)<br>FAX:053-485-5444 | <a href="http://www.nissei-el.co.jp/">http://www.nissei-el.co.jp/</a>                                                 |
|              | ダイトデンソー株式会社<br>DAITO DENSO CO.,LTD.             | 〒520-3044<br>滋賀県栗東市伊勢落宇野神<br>689番地1<br><br>1-689, Azanogami, Iseochi,<br>Ritto-Shi, Shiga,<br>520-3044, Japan                | TEL:077-553-7600(代)<br>FAX:077-553-7877 | <a href="http://www.daitodenso.co.jp/">http://www.daitodenso.co.jp/</a>                                               |