

# Shielded IDC Flat Cable Connector

## 57FE Series

**Fujikura**

10 Type  
(Plug for Rack and Panel)



20 Type  
(Receptacle for Rack and Panel)



30 Type  
(Cable Plug)



40 Type  
(Panel Receptacle)



### FEATURE

- The 57FE series is a shielded IDC connector for flat cable. The interface is covered with metal plates for EMC.

### SPECIFICATIONS

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Rated Voltage                   | 250V AC (r.m.s.)                                                                     |
| Rated Current                   | 1 A / Contact                                                                        |
| Dielectric Withstanding Voltage | 500V AC (r.m.s.) / 1 minute                                                          |
| Insulation Resistance           | 1000M $\Omega$ min. at 500V DC                                                       |
| Contact Resistance              | 35m $\Omega$ max.                                                                    |
| Operating Temperature           | - 55°C ~ + 105°C                                                                     |
| Applicable Cable                | Cable Pitch : 1.27mm<br>AWG#28 (Solid Cable, Stranded Cable)<br>AWG#30 (Solid Cable) |

### MATERIAL/ FINISH



| Item          | Material / Finish                            |
|---------------|----------------------------------------------|
| Insulator     | PC Resin (UL94V-0) / Blue                    |
| Contact       | Copper Alloy / Au over Ni Plating            |
| Shell         | Copper Alloy / Ni Plating (57FE-20, 40 Type) |
| Strain Relief | Polycarbonate (UL94V-0) /Blue                |
| Ground Tab    | Copper Alloy / Ni Plating (57FE-10, 30 Type) |
| Bail Lock     | Stainless Steel (57FE-40 Type)               |
| Metal Hood    | Aluminum Alloy / Gray (Outside Only)         |
| Plastic Hood  | ABS Resin / Ni Plating                       |
| Boot          | PVC (57FE-30 Type)                           |

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Please verify the latest specifications with our drawings.

260428

<https://www.connector.fujikura.com>

# ▶ Plug for Rack and Panel

## 57FE-10360-20 S

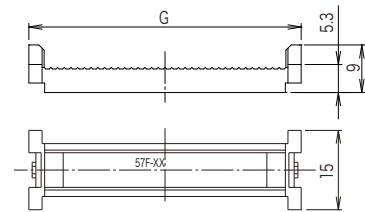
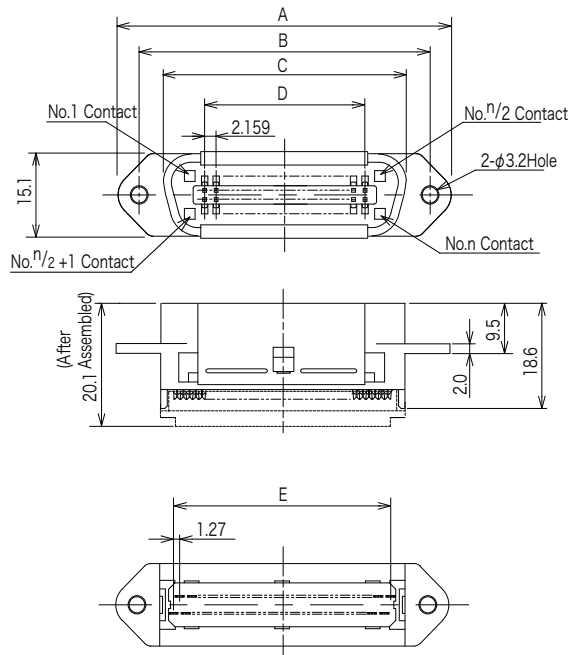
FE : Shield Type

Number of Contact  
24, 36, 50

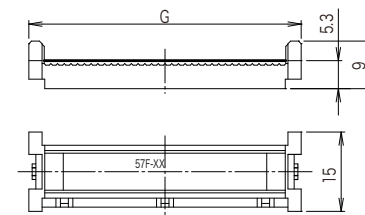
Contact Plating  
2 : Au0.4  $\mu$ m over Ni Plating

Strain Relief  
No Digit : No Strain Relief  
S : With Plastic Strain Relief

Cover Style  
0 : Open-ended Cover, Blue  
A : Close-ended Cover, Blue(for 24 and 36pin only)



Open-ended Cover

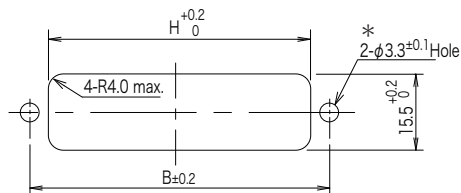


Close-ended Cover

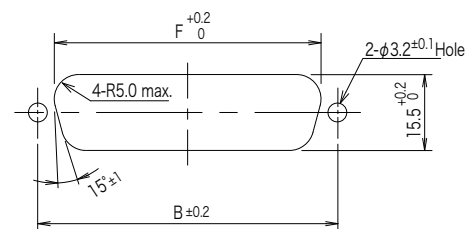
| Number of Contact | A     | B     | C    | D      | E     | G    |
|-------------------|-------|-------|------|--------|-------|------|
| 24                | 54.78 | 46.78 | 39.4 | 23.749 | 29.21 | 36.3 |
| 36                | 67.74 | 59.74 | 52.2 | 36.703 | 44.45 | 51.5 |
| 50                | 82.85 | 74.85 | 67.4 | 51.816 | 62.23 | 68.5 |

## ■ Panel Mounting Dimensions

### ● Front Mounting Type



### ● Rear Mounting Type



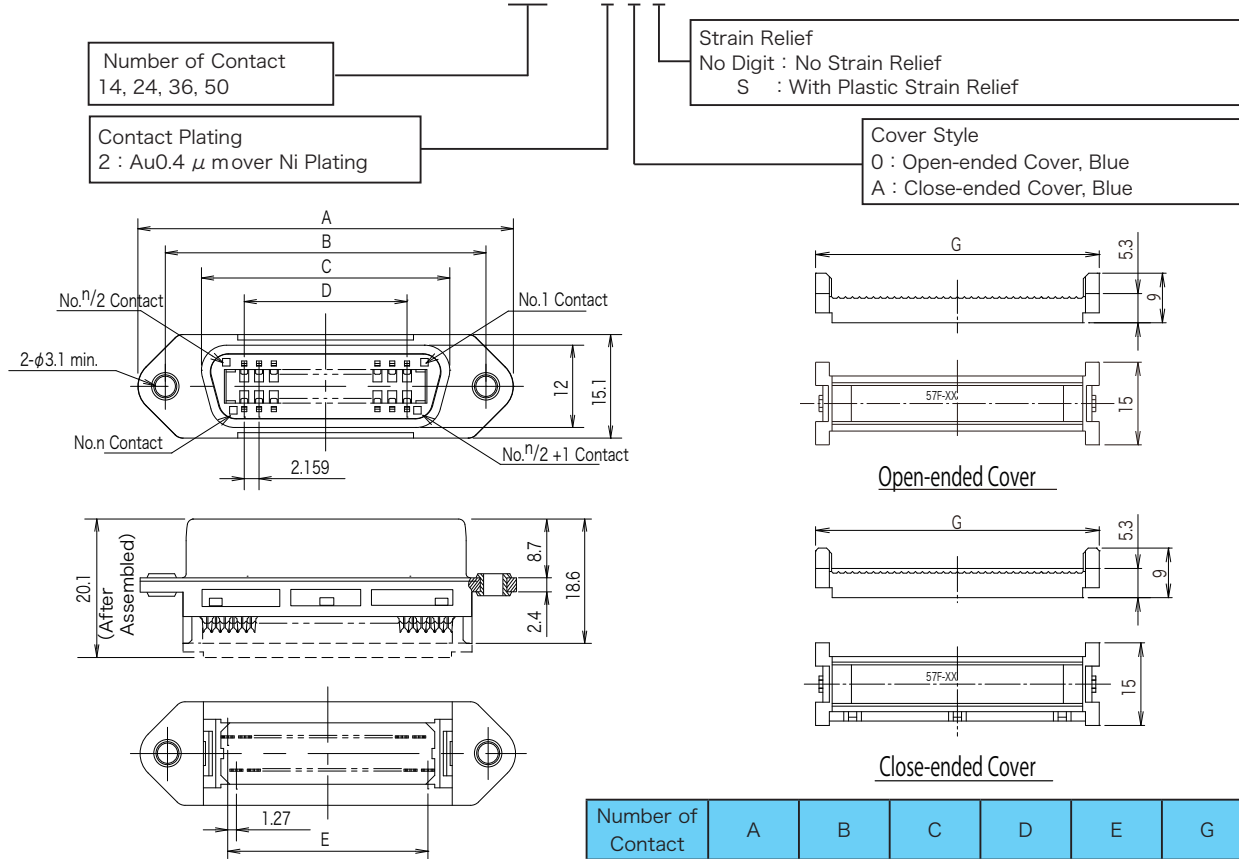
\* : For 50 contacts connector with strain relief, tap  $\phi$  3.3<sup>+0.1/-0.1</sup> to M3×0.5.

| Number of Contact | B     | H                     |                    | F    |
|-------------------|-------|-----------------------|--------------------|------|
|                   |       | Without Strain Relief | With Strain Relief |      |
| 24                | 46.78 | 36.8                  | 38.7               | 40.1 |
| 36                | 59.74 | 52.0                  | 53.9               | 53.0 |
| 50                | 74.85 | 69.0                  | 70.9               | 68.2 |

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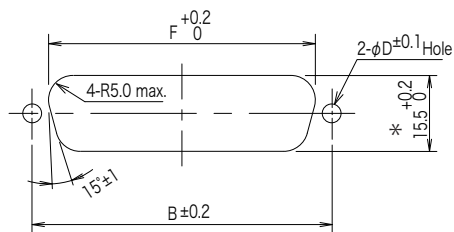
# ▶ Receptacle for Rack and Panel

## 57FE-20360-20S



### ■ Panel Mounting Dimensions

#### ● Rear Mounting Type



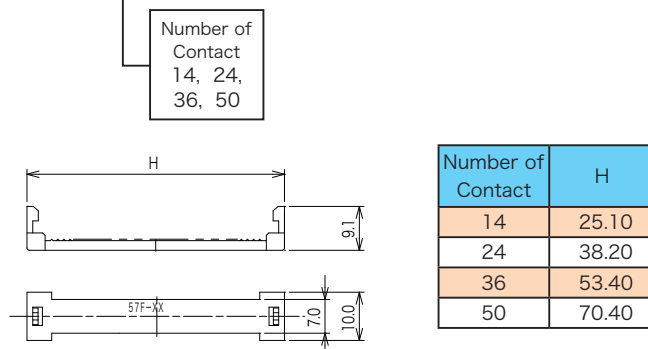
| Number of Contact | A     | B     | C    | D      | E     | G    |
|-------------------|-------|-------|------|--------|-------|------|
| 14                | 44.00 | 36.00 | 25.4 | 12.954 | 16.51 | 23.2 |
| 24                | 54.78 | 46.78 | 36.2 | 23.749 | 29.21 | 36.3 |
| 36                | 67.74 | 59.74 | 49.0 | 36.703 | 44.45 | 51.5 |
| 50                | 82.85 | 74.85 | 64.2 | 51.816 | 62.23 | 68.5 |

| Number of Contact | B     | D   | F    |
|-------------------|-------|-----|------|
| 14                | 36.00 | 3.2 | 29.3 |
| 24                | 46.78 | 3.2 | 40.1 |
| 36                | 59.74 | 3.2 | 53.0 |
| 50                | 74.85 | 3.2 | 68.2 |

\* : When the mating connector is 57FE-10 type, the size is  $16.2^{+0.2}_0$ .

### Plastic Strain Relief

#### 57F-14-041



| Number of Contact | H     |
|-------------------|-------|
| 14                | 25.10 |
| 24                | 38.20 |
| 36                | 53.40 |
| 50                | 70.40 |

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# Receptacle for Rack and Panel(with Jack Socket)

## 57FE-20500-20SD35-CG

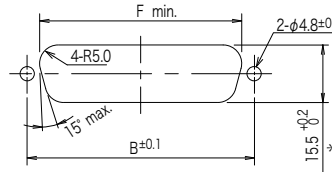
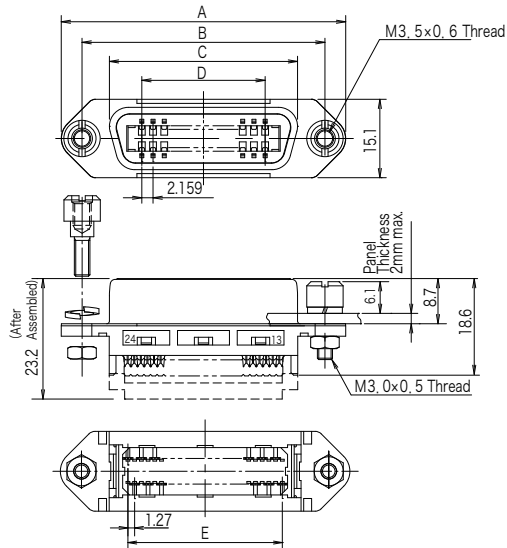
Number of Contact : 14, 24,  
36, 50

Contact Plating  
2 : Au0.4  $\mu$  m over Ni Plating

Cover Style  
0 : Open-ended Cover, Blue  
A : Close-ended Cover, Blue(for 14,24 and 36 pin only)

CG : Lead and Cadmium Free

Deviation  
D35 : With Jack Socket

Strain Relief  
No Digit : None  
S : With Plastic Strain Relief


Rear Mounting Type

\* : When the mating connector is 57FE-10 type, the size is 16.2<sup>+0.2</sup><sub>0</sub>.

| Number of Contact | A     | B     | C    | D      | E     | F    |
|-------------------|-------|-------|------|--------|-------|------|
| 14                | 44.00 | 36.00 | 25.4 | 12.954 | 16.51 | 29.3 |
| 24                | 54.78 | 46.78 | 36.2 | 23.749 | 29.21 | 40.1 |
| 36                | 67.74 | 59.74 | 49.0 | 36.703 | 44.45 | 53.0 |
| 50                | 82.85 | 74.85 | 64.2 | 51.816 | 62.23 | 68.2 |

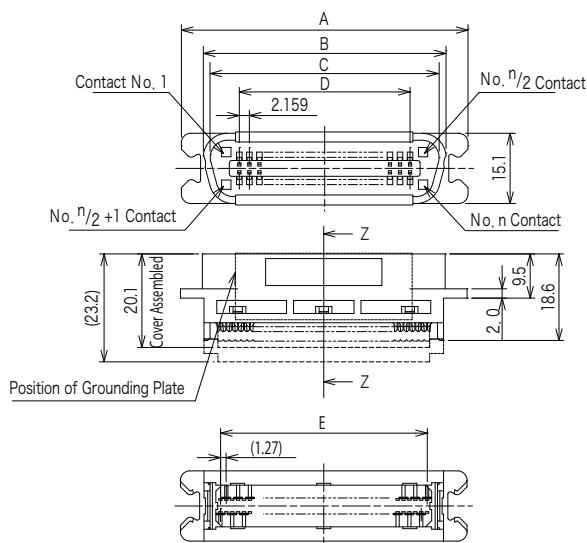
# Cable Plug

## 57FE-30360-20S

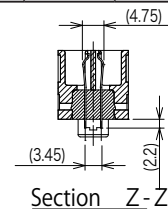
Number of Contact : 14, 24,  
36, 50

Contact Plating  
2 : Au0.4  $\mu$  m over Ni Plating

Strain Relief  
No Digit : None  
S : With Plastic Strain Relief

Cover Style  
0 : Open-ended Cover, Blue  
A : Close-ended Cover, Blue(for 14,24 and 36 pin only)


| Number of Contact | A     | B    | C    | D      | E     | J    |
|-------------------|-------|------|------|--------|-------|------|
| 14                | 37.82 | 28.6 | 25.5 | 12.954 | 16.51 | 17.0 |
| 24                | 48.64 | 39.4 | 36.4 | 23.749 | 29.21 | 26.0 |
| 36                | 61.62 | 52.2 | 49.2 | 36.703 | 44.45 | 38.0 |
| 50                | 76.74 | 67.4 | 64.4 | 51.816 | 62.23 | 53.0 |



Grounding Plate (attached)

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▶ With hood and grounding plate 30 Type

## 57FE-30360-20N(D8)-3F(R1)

Number of Contact  
14, 24, 36, 50

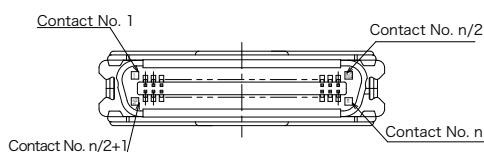
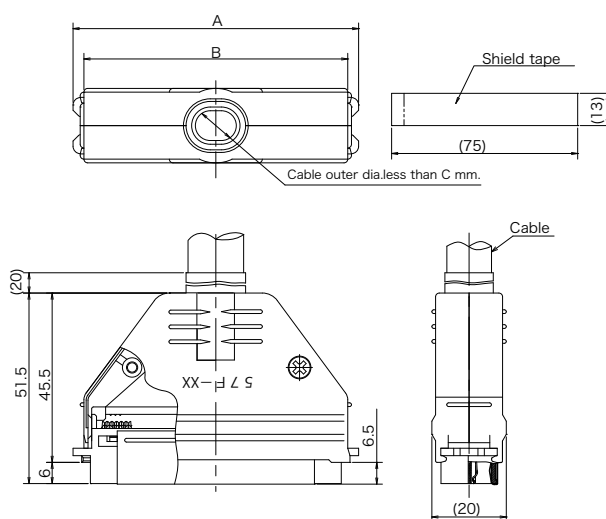
Contact Plating  
2 : Au0.4  $\mu$  m over Ni Plating

Cover Style  
0 : Open-ended Cover, Blue  
A : Close-ended Cover, Blue(for 14,24 and 36 pin only)

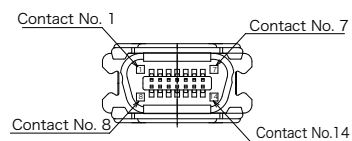
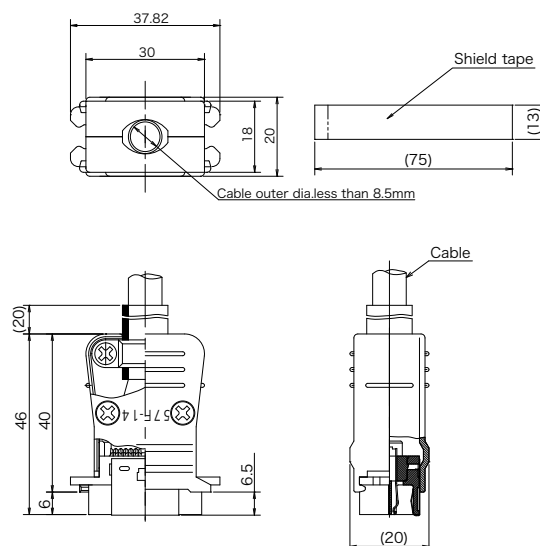
3F : Lead and Hexavalent Chromium Free

Deviation  
(D8) : With hood and grounding plate

### 57FE-30xx0-2xN(D8)-3F(R1)



### 57FE-30140-2xN(D8)-3F(R1)



### Dimensions

| Part Number               | Number of Contact | A                                        | B    | C    |
|---------------------------|-------------------|------------------------------------------|------|------|
| 57FE-30140-2xN(D8)-3F(R1) | 14                | Figure referring (57FE-30140-2xN(D8)-3F) |      |      |
| 57FE-30240-2xN(D8)-3F(R1) | 24                | 48.64                                    | 39.8 | 10.0 |
| 57FE-30360-2xN(D8)-3F(R1) | 36                | 61.62                                    | 55.0 | 12.0 |
| 57FE-30500-xxN(D8)-3F(R1) | 50                | 76.74                                    | 70.4 | 13.0 |

# ▶ Panel Receptacle

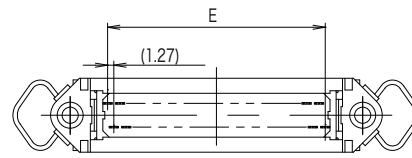
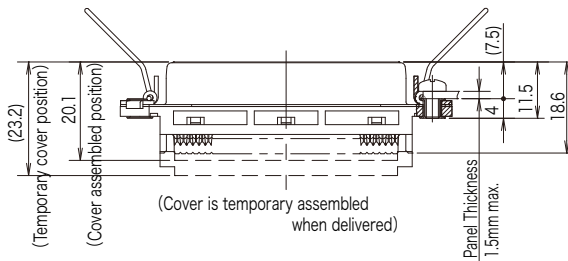
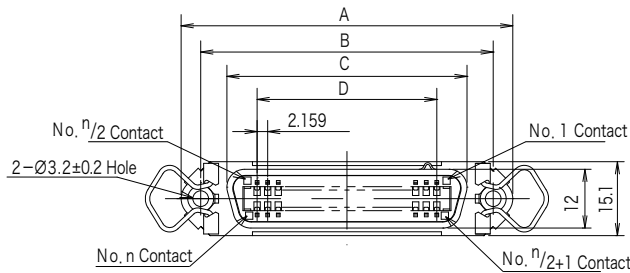
## 57FE-40360-20S

Number of Contact : 14, 24,  
36, 50

Contact Plating  
2 : Au0.4  $\mu$  m over Ni Plating

Strain Relief  
No Digit : None  
S : With Plastic Strain Relief

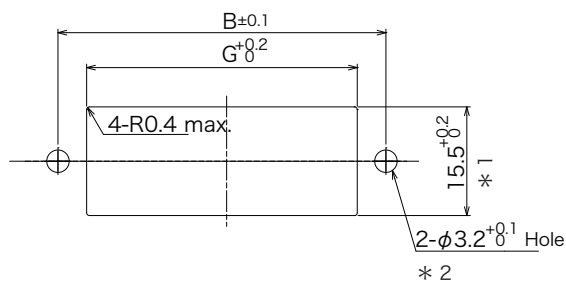
Cover Style  
0 : Open-ended Cover, Blue  
A : Close-ended Cover, Blue(for 14,24 and 36 pin only)



| Number of Contact | A     | B     | C    | D      | E     |
|-------------------|-------|-------|------|--------|-------|
| 14                | 44.0  | 36.00 | 25.4 | 12.954 | 16.51 |
| 24                | 54.78 | 46.78 | 36.2 | 23.749 | 29.21 |
| 36                | 67.74 | 59.74 | 49.0 | 36.703 | 44.45 |
| 50                | 82.85 | 74.85 | 64.2 | 51.816 | 62.23 |

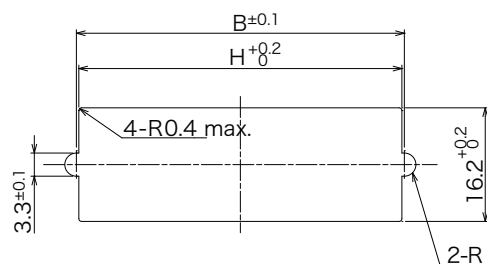
## ■ Panel Mounting Dimensions

### ● Front Mounting Type



### ● Rear Mounting Type

Panel Thickness : 1.6mm max.



\* 1 : When the mating connector is 57FE-10 type, the size is 16.2<sup>+0.2</sup>.

\* 2 : For 50 contacts connector with strain relief, tap  $\phi$  3.2<sup>+0.1</sup>/<sub>0</sub> to M3×0.5.

| Number of Contact | B     | G                     |                    |
|-------------------|-------|-----------------------|--------------------|
|                   |       | Without Strain Relief | With Strain Relief |
| 14                | 36.00 | 23.7                  | 25.6               |
| 24                | 46.78 | 36.8                  | 38.7               |
| 36                | 59.74 | 52.0                  | 53.9               |
| 50                | 74.85 | 69.0                  | 70.9               |

| Number of Contact | B     | H     |
|-------------------|-------|-------|
| 14                | 36.00 | 35.30 |
| 24                | 46.78 | 46.08 |
| 36                | 59.74 | 59.04 |
| 50                | 74.85 | 74.15 |

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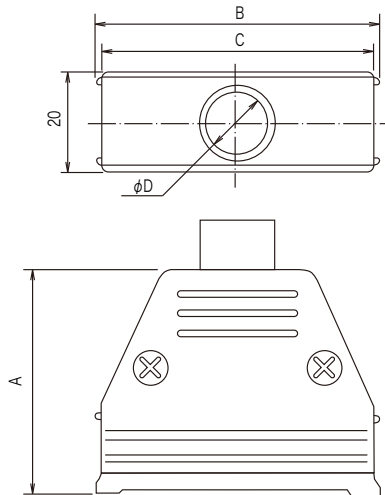
## ► Straight Metal Hood

### 57F-14H-3R(R1)

Number of Contact : 14, 24,  
36, 50

3R : Trivalent Chromium Free

H : Straight Hood



| Number of Contact | A    | B     | C    | D    |
|-------------------|------|-------|------|------|
| 14                | 40.0 | 33.20 | 30.0 | 8.5  |
| 24                | 45.5 | 44.00 | 39.8 | 10.0 |
| 36                | 45.5 | 57.00 | 55.0 | 12.0 |
| 50                | 45.5 | 72.10 | 70.9 | 13.0 |

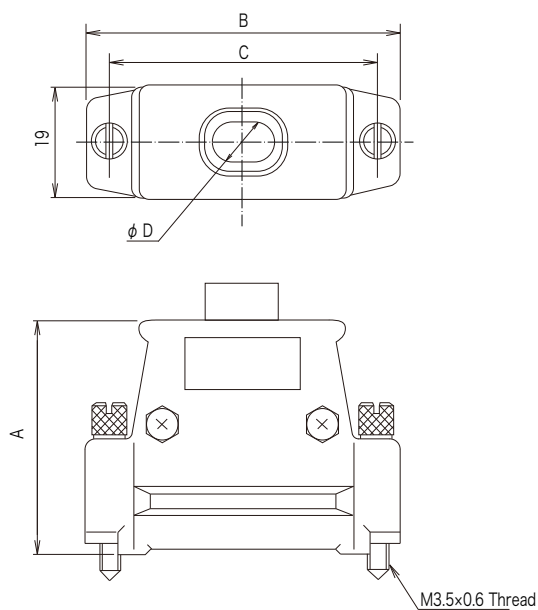
## ► Straight Plastic Hood with Lock Screw

### 57FE-24H-CF(R1)

Number of Contact : 24, 36, 50

CF : Cadmium Free

H : Straight Hood



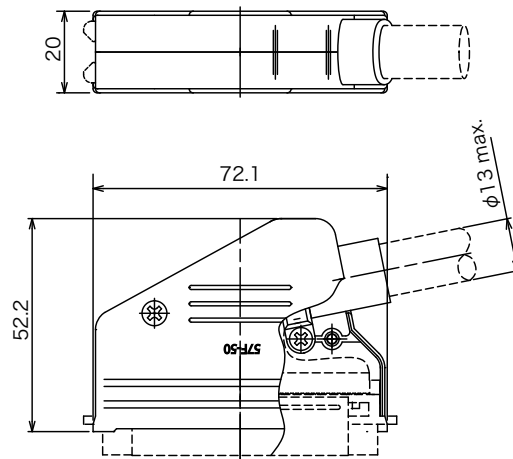
| Number of Contact | A  | B    | C     | D  |
|-------------------|----|------|-------|----|
| 24                | 41 | 55.0 | 46.78 | 10 |
| 36                | 44 | 68.0 | 59.74 | 12 |
| 50                | 44 | 83.0 | 74.85 | 13 |

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## ▶ Right Angle Hood

### 57F-50LH-3R(R1)

for 50 Contacts



## ▶ Strain Relief

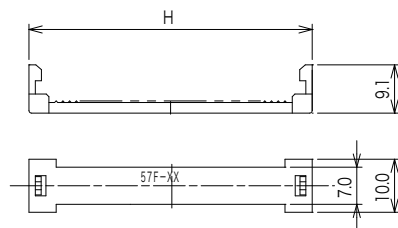
### Plastic Strain Relief

#### 57F-50-041

Number of Contact : 14, 24, 36, 50

• Material / Finish : Polycarbonate Resin  
(UL94V-0) / Blue

| Number of Contact | H    |
|-------------------|------|
| 14                | 25.1 |
| 24                | 38.2 |
| 36                | 53.4 |
| 50                | 70.4 |



## ▶ Assembly Tools

- Cable Cutting Tool : 357J-4256
- Press Tool : 357J-4674D Attachment 357J-4668