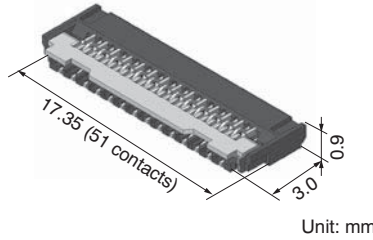
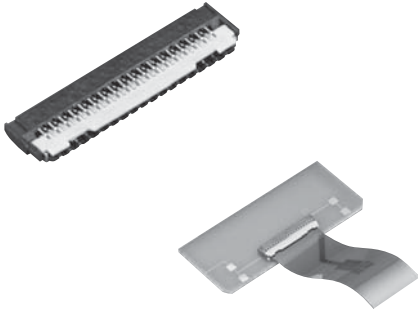


**FEATURES**

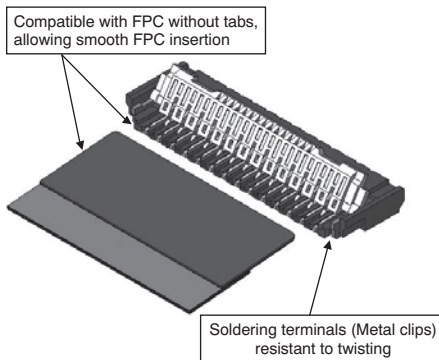
**1. Low-profile, space-saving design (pitch: 0.3mm)**

The 0.9mm height, 3.0mm depth contributes to the miniaturization and thickness reduction of target products.  
\* The total depth including the lever is 3.2mm.

- 3. Equipped with soldering terminals for higher mounting strength
- 4. Easy-to-handle front lock structure
- 5. Wiring patterns can be located underneath the connector.
- 6. Ni barrier with high resistance to solder creep



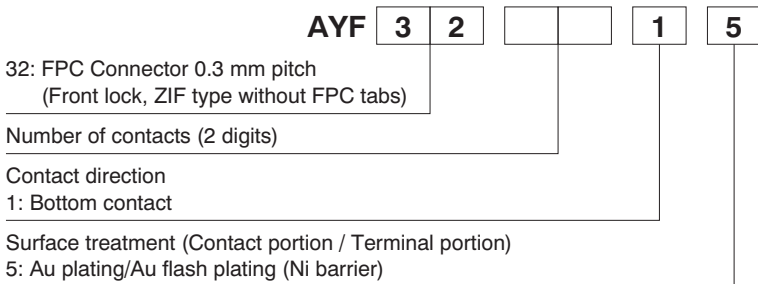
**2. Compatible with FPC without tabs, allowing smooth FPC insertion**  
Compatible with without FPC tabs, allowing smooth FPC insertion (Y3FT is compatible with FPC with tabs.)



**APPLICATIONS**

Compact mobile devices "Cellular phones, Digital cameras and DVC, etc"

**ORDERING INFORMATION**



## PRODUCT TYPES

Height	Number of contacts	Part number	Packing	
			Inner carton	Outer carton
0.9 mm	13	AYF321315	5,000 pieces	10,000 pieces
	15	AYF321515		
	17	AYF321715		
	23	AYF322315		
	25	AYF322515		
	27	AYF322715		
	29	AYF322915		
	31	AYF323115		
	33	AYF323315		
	35	AYF323515		
	39	AYF323915		
	41	AYF324115		
	45	AYF324515		
51	AYF325115			

Notes: 1. Order unit;

For mass production: in 1-inner carton (1-reel) units

Samples for mounting check: in 50-connector units. Please contact our sales office.

2. Please contact are sales office for connectors having a number of contacts other than those listed above.

## SPECIFICATIONS

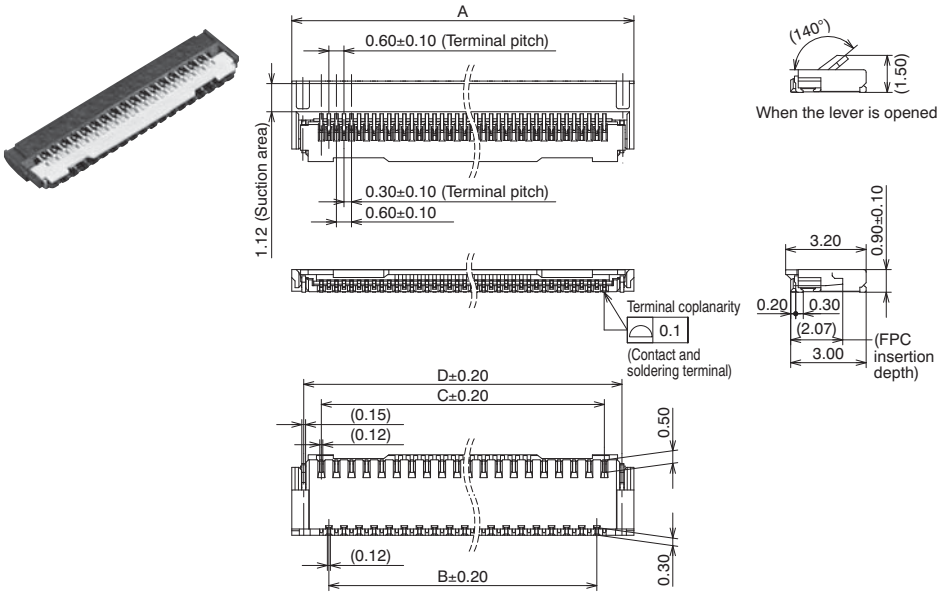
### 1. Characteristics

	Item	Specifications	Conditions
Electrical characteristics	Rated current	0.2A/contact	
	Rated voltage	50V AC/DC	
	Insulation resistance	Min. 1,000M $\Omega$ (initial)	Using 250V DC megger (applied for 1 min.)
	Breakdown voltage	150V AC for 1 min.	No short-circuiting or damage at a detection current of 1 mA when the specified voltage is applied for one minute.
	Contact resistance	Max. 80m $\Omega$	Based on the contact resistance measurement method specified by JIS C 5402.
Mechanical characteristics	FPC holding force	Min. 0.13N/contacts $\times$ contacts (initial)	Measurement of the maximum force applied until the inserted compatible FPC is pulled out in the insertion axis direction while the connector lever is closed
	Contact holding force	Min. 0.2N/contacts	Measuring the maximum force. As the contact is axially pull out.
	Soldering terminal holding force	Min. 0.2N/contacts	Measuring the maximum force. As the soldering terminal is axially pull out.
Environmental characteristics	Ambient temperature	-55°C to +85°C	No freezing at low temperatures. No dew condensation.
	Storage temperature	-55°C to +85°C (product only) -40°C to +50°C (emboss packing)	
	Thermal shock resistance (with FPC inserted)	5 cycles, insulation resistance min. 100M $\Omega$ , contact resistance max. 80m $\Omega$	Sequence 1. -55 $\frac{0}{3}$ °C, 30 minutes 2. ~, Max. 5 minutes 3. 85 $\frac{0}{3}$ °C, 30 minutes 4. ~, Max. 5 minutes
	Humidity resistance (with FPC inserted)	120 hours, insulation resistance min. 100M $\Omega$ , contact resistance max. 80m $\Omega$	Bath temperature 40 $\pm$ 2°C, humidity 90 to 95% R.H.
	Saltwater spray resistance (with FPC inserted)	24 hours, insulation resistance min. 100M $\Omega$ , contact resistance max. 80m $\Omega$	Bath temperature 35 $\pm$ 2°C, saltwater concentration 5 $\pm$ 1%
	H <sub>2</sub> S resistance (with FPC inserted)	48 hours, contact resistance max. 80m $\Omega$	Bath temperature 40 $\pm$ 2°C, gas concentration 3 $\pm$ 1 ppm, humidity 75 to 80% R.H.
	Soldering heat resistance	Peak temperature: 260°C or less 300°C within 5 sec. 350°C within 3 sec.	Reflow soldering Soldering iron
Lifetime characteristics	Insertion and removal life	30 times	Repeated insertion and removal: min. 10 sec./time
Unit weight		51-contact type: 0.09 g	

### 2. Material and surface treatment

Part name	Material	Surface treatment
Molded portion	Housing: LCP resin (UL94V-0) Lever: LCP resin (UL94V-0)	—
Contact	Copper alloy	Contact portion; Base: Ni plating, Surface: Au plating Terminal portion; Base: Ni plating, Surface: Au plating
Soldering terminal portion	Copper alloy	Base: Ni plating, Surface: Au plating

**DIMENSIONS** (Unit: mm)

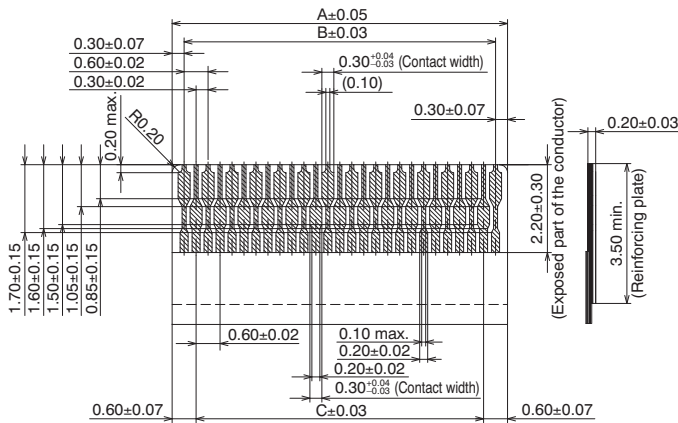


Number of contacts/ dimension	A	B	C	D
13	6.25	3.30	3.90	5.30
15	6.55	3.60	4.20	5.60
17	7.15	4.20	4.80	6.20
23	8.95	6.00	6.60	8.00
25	9.55	6.60	7.20	8.60
27	10.15	7.20	7.80	9.20
29	10.75	7.80	8.40	9.80
31	11.35	8.40	9.00	10.40
33	11.95	9.00	9.60	11.00
35	12.55	9.60	10.20	11.60
39	13.75	10.80	11.40	12.80
41	14.35	11.40	12.00	13.40
45	15.55	12.60	13.20	14.60
51	17.35	14.40	15.00	16.40

**RECOMMENDED FPC DIMENSIONS**

(Finished thickness:  $t = 0.2 \pm 0.03$ )

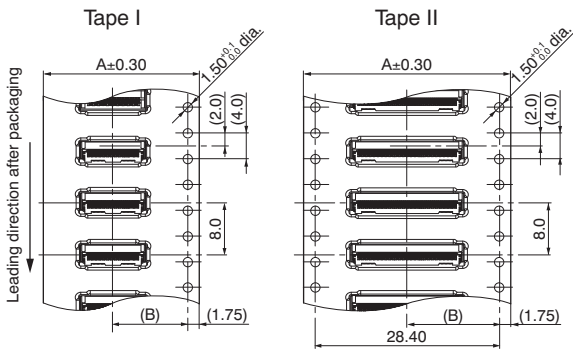
The conductive parts should be based by Ni plating and then Au plating.



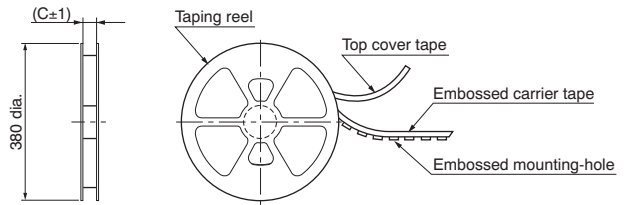
Number of contacts/ dimension	A	B	C
13	4.50	3.90	3.30
15	4.80	4.20	3.60
17	5.40	4.80	4.20
23	7.20	6.60	6.00
25	7.80	7.20	6.60
27	8.40	7.80	7.20
29	9.00	8.40	7.80
31	9.60	9.00	8.40
33	10.20	9.60	9.00
35	10.80	10.20	9.60
39	12.00	11.40	10.80
41	12.60	12.00	11.40
45	13.80	13.20	12.60
51	15.60	15.00	14.40

**EMBOSSED TAPE DIMENSIONS** (Unit: mm) (Common for respective contact type)

• Specifications for taping




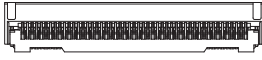
• Specifications for the plastic reel  
(In accordance with EIAJ ET-7200B.)



• Dimension table (Unit: mm)

Number of contacts	Type of taping	A	B	C	Quantity per reel
13 to 17 contacts	Tape I	16.0	7.5	17.4	5,000
23 to 45 contacts	Tape I	24.0	11.5	25.4	5,000
51 contacts	Tape II	32.0	14.2	33.4	5,000

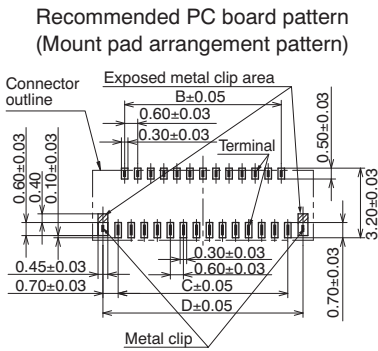
• Connector orientation with respect to embossed tape feeding direction

Direction of tape progress 	Type Y3F	
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## NOTES

### 1. Recommended PC board and metal mask patterns

Appropriate control of solder amount is required to minimize solder bridges and other defects for connectors with 0.3 mm, 0.4 mm or 0.5 mm pitch terminals, which require high-density mounting. Refer to the recommended PC board pattern.

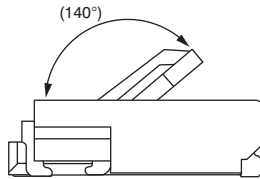


Number of contacts/ dimension	B	C	D
13	3.30	3.90	5.30
15	3.60	4.20	5.60
17	4.20	4.80	6.20
23	6.00	6.60	8.00
25	6.60	7.20	8.60
27	7.20	7.80	9.20
29	7.80	8.40	9.80
31	8.40	9.00	10.40
33	9.00	9.60	11.00
35	9.60	10.20	11.60
39	10.80	11.40	12.80
41	11.40	12.00	13.40
45	12.60	13.20	14.60
51	14.40	15.00	16.40

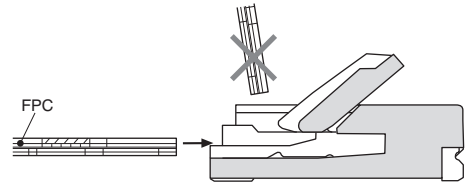
### 2. Precautions for insertion/removal of FPC

To open the lever, hold its center and turn it up. A load applied to the lever unevenly or on only one side may deform and break the lever. Do not apply an excessive load to the lever in the opening direction; otherwise, the terminals may be deformed. Don't further apply an excessive load to the fully opened lever; otherwise, the lever may be deformed. Fully open the lever to insert an FPC.

Since this product connects at the bottom, please insert the FPC so that its electrode plane is facing the board to which it will be mounted. Do not insert the FPC in the reverse direction of the contact section; otherwise, operation failures or malfunctions may be caused.



Completely insert the FPC horizontally. An FPC inserted at an excessive angle to the board may cause the deformation of metal parts, FPC insertion failures, and FPC circuit breakages.



Insert the FPC to the full depth of the connector without altering the angle. When closing the lever, use the ball(s) of your finger to push the entire lever or both sides of it. Be careful. If pressure to the lever is applied unevenly, such as to an edge only, it may deform or break. Also, make sure that the lever is closed completely. Not doing so will cause a faulty connection.

Avoid applying an excessive load to the top of the lever during or after closing the lever. Otherwise, the terminals may be deformed.

Remove the FPC at parallel with the lever fully opened. If the lever is closed, or if the FPC is forcedly pulled, the molded part may break.

After an FPC is inserted, carefully handle it so as not to apply excessive stress to the base of the FPC.

**For Cautions for Use, see the “NOTES FOR USING FPC CONNECTORS” in the Connector Technical Information. For other details, please verify with the product specification sheets.**