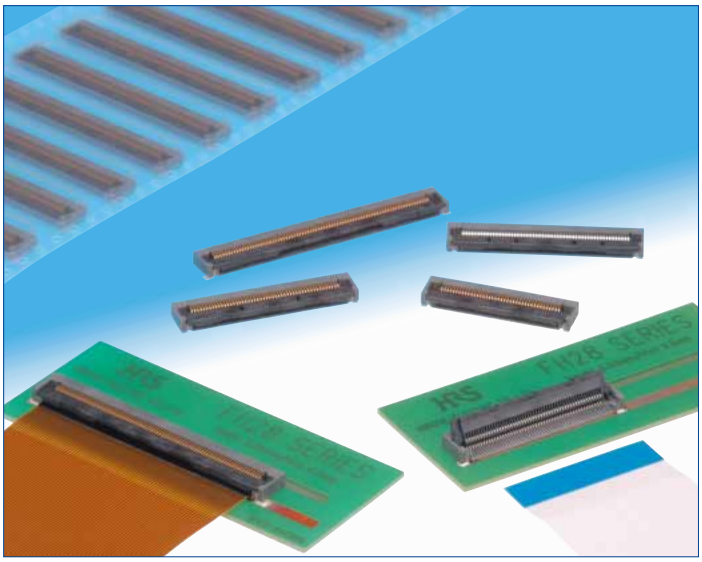
0.5mm and 1mm Pitch, 2.55mm Height FPC/FFC Connectors

FH28 Series



Robust locking structure

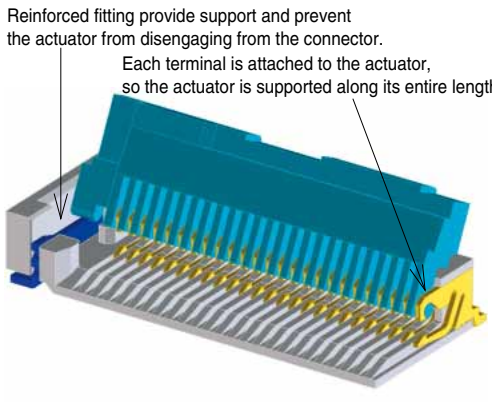


Fig.1

Features

1. Highly reliable connection and robust structure

Multi-polarized connectors, reinforced body structure and high FPC retention produced by the following features:
Reliable connection created by its unique FPC/FFC positioning mechanism
Prevents accidental disengagement with the design of its proprietary structure

2. Simplified operations

The flip lock structure makes it easier to engage/disengage the actuator and reduces the required force needed to operate. A clear tactile click is delivered upon the successful completion of the mating process. (Fig.1)

3. Increased FPC/FFC retention force

Vertical retention force for the FPC/FFC is 2.5 times stronger than our 0.5mm pitch connector the FH12 series. Horizontal retention force for the FPC/FFC is 2 times stronger than our 0.5mm pitch connector the FH12 series

∗To realize the horizontal retention force values, the use of the FPC positioning tabs are required. FPC without the positioning tabs will comply with the specifications rated on the FH12 series.

4. Accepts standard 0.3mm thick FPC/FFC

It accepts 0.3mm thick products that are easy to manufacture and have superb insertion performance.

5. Fully molded structure aids PCB layout

The bottom of this connector is enclosed by a fully molded structure that protects the contacts and removes any restrictions from PCB patterning and design.

6. Supports automatic pick-n-place mounting

Offered in tape and reel packaging that is compatible with automatic machine mounting. (2,000pcs/reel)

7. Halogen-free

All materials and substances used to produce this product comply with Halogen-free standards.∗Defined according to IEC61249-2-21. Br : 900ppm maximum, Cl : 900ppm maximum, Br+Cl : 1,500ppm maximum

8. Multiple packing options

The standard packaging is 2,000pcs/reel, but it is also offered in a 500pcs/reel. (The outer diameter of the reel will be ϕ330mm in this case.)

The FPC positioning mechanism and FPC tabs help to guide and hold the FPC prior to engaging the actuator

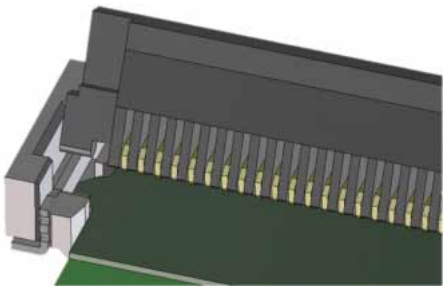


Fig.2

Can also be used with straight sided, non-tabbed FPC/FFC

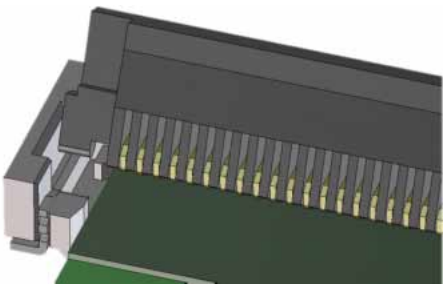


Fig.3

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■Product Specifications

Ratings	Rated Current 0.5A (Note 1) Rated Voltage AC 50Vrms	Operating Temperature Range -40 to +105℃ (Note 2) Operating Humidity Range Relative humidity 90% or less (no condensation shouldbe present)	Storage Temperature Range -10 to +50℃ (Note 3) Storage Humidity Range Relative humidity 90% or less (no condensation should be present)
Adaptive FPC/FFC contact specifications	t= 0.3 ±0.05 Gold plating		

Item	Specification	Conditions
1. Insulation Resistance	Minimum of 500MΩ	Measured with DC 100V
2. Withstanding Voltage	No flashover or breakdown	AC 150Vrms is applied for 1 minute.
3. Contact Resistance	Maximum of 50mΩ *including FPC/FFC conductor resistance	Measured at 1mA (DC or 1,000Hz)
4. Durability	Contact Resistance : Maximum of 50mΩ No damaged, cracked or looseness of parts	20 mating cycles
5. Vibration Resistance	No electrical discontinuity of 1μs or greater Contact Resistance : Maximum of 50mΩ No damages, cracks and looseness of parts	Frequency : 10 to 55Hz Single amplitude of 0.75mm for 10 cycles in 3 axial directions
6. Shock Resistance	No electric discontinuity of 1μs or greater Contact Resistance : Maximum of 50mΩ No damaged, cracked or looseness of parts	Acceleration of 981m/s², 6ms duaration, sine half-wave waveform 3 cycles in each of the 3 axis
7. Humidity Resistance of Steady State	Contact Resistance : Maximum of 50mΩ Insulation Resistance : Minimum of 50MΩ No damaged, cracked or looseness of parts	96 hours at temperature : 40℃ and humidity : 90 to 95%
8. Temperature Cycles	Contact Resistance : Maximum of 50mΩ Insulation Resistance : Minimum of 50MΩ No damaged, cracked or looseness of parts	Temperature : -40→+15 to +35→+105→+15 to +35℃ Time : 30→2 to 3→30→2 to 3 minutes 5 cycles
9. Solder Heat Resistance	Should not have external deformity or loose parts	Reflow : according to the Recommended Temperature Profile Hand solder: 350 ±5℃ for 5 seconds

Note 1 : When energizing rated current to all contacts, use 70% of rated current.
Note 2 : Includes temperature rise caused by current flow.
Note 3 : The term "storage" here refers to products stored for a long period prior to board mounting and use. The operating temperature and humidity range covers the non-energized condition of connectors after board mounting and the temporary storage.

■Materials / Finish

Component	Materials	Color/Finish	Remarks
Insulator	LCP	Gray	UL94V-0
	LCP	Black	
Contact	Phosphor bronze	Gold plating	————
Metal fitting	Brass	Pure tin plating	————

■Product Number Structure

Refer to the chart below when determining the product specifications from the product number.
Please select from the product numbers listed in this catalog when placing orders.

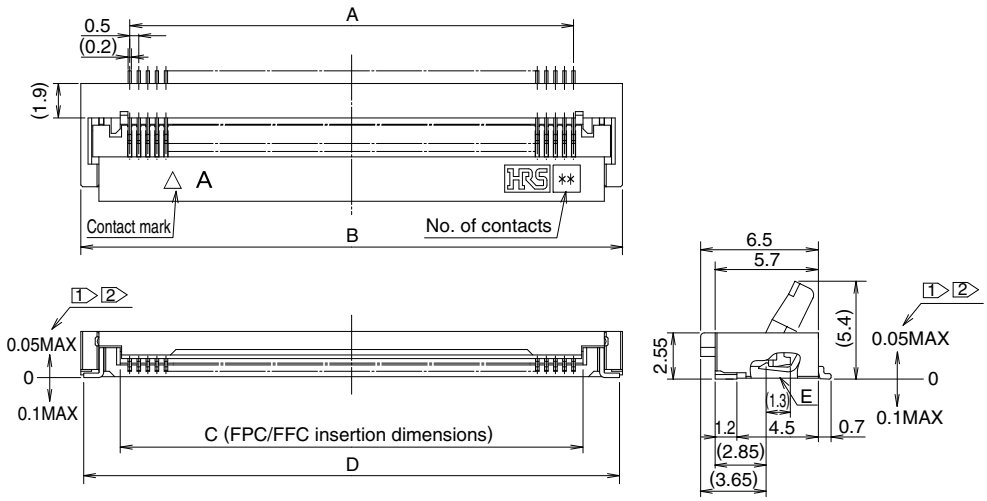
FH 28 D - 50 (25) S B - 0.5 SH (05)
❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

❶ Series Name : FH	❻ Contact arrangement : Single (single row)
❷ Series No. : 28	❼ Eccentric direction : Blank...Standard type (without eccentricity) B...Eccentric type (contacts on the opposite side of polarity mark)
❸ None, D : Standard type E : Long reinforcing fitting type H : Space-saving type	❽ Contact Pitch : 0.5mm, 1mm
❹ Standard type : The number of contacts Eccentric type : Number of contacts in 0.5mm housing	❾ Mounting direction , SH...SMT horizontal mounting type
❺ Standard type : Blank Eccentric type : Actual number of pins	❿ Specification : (05) …Gold plating, 2,000 pcs/reel (10) Specification:…Partial gold plating, 2,000 pcs/reel (07)…Gold plating (for 40 contact only.), 2,000 pcs/reel (98)…Gold plating, 500 pcs/reel

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■Connector Dimensions

[Standard type] 0.5mm pitch product



Notes 1 The coplanarity of the metal fitting and contact is 0.1 MAX.

2 The contact lead position shows the dimension from the E surface of the case bottom.

3 This product is sold in embossed, tape and reel packaging. For details on this product please refer to the “Packaging Specifications”located on page 9.

4 Recesses in part structure may be added to improve molding characteristics.
Black marks may appear in the mold resin, but they will not negatively affect the performance of these connectors.

5 The color of the plating may change after the reflow process, but it will not negatively affect the performance of these connectors.

■Connector dimension table [Standard type]

Unit : mm

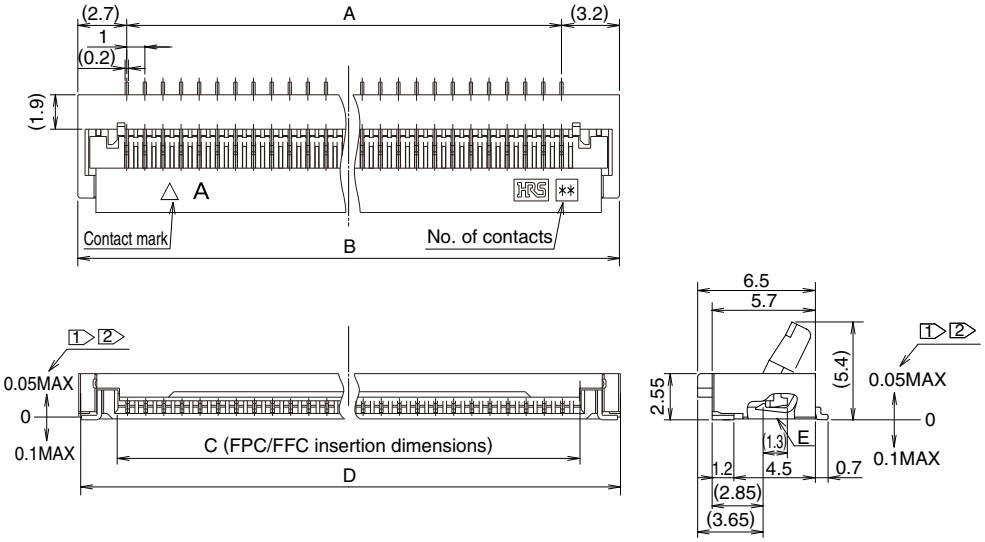
Part No.	HRS No.	No. of Contacts	A	B	C	D
FH28-10S-0.5SH(**)	586-1861-4 **	10	4.5	9.9	5.57	9.58
FH28-15S-0.5SH(**)	586-1868-3 **	15	7	12.4	8.07	12.08
FH28D-20S-0.5SH(**)	586-1823-5 **	20	9.5	14.9	10.57	14.58
FH28D-28S-0.5SH(**)	586-1835-4 **	28	13.5	18.9	14.57	18.58
FH28D-30S-0.5SH(**)	586-1827-6 **	30	14.5	19.9	15.57	19.58
FH28-40S-0.5SH(**)	586-1803-8 **	40	19.5	24.9	20.57	24.58
FH28-45S-0.5SH(**)	586-1848-6 **	45	22	27.4	23.07	27.08
FH28D-50S-0.5SH(**)	586-1808-1 **	50	24.5	29.9	25.57	29.58
FH28D-55S-0.5SH(**)	586-1821-0 **	55	27.0	32.4	28.07	32.08
FH28-60S-0.5SH(**)	586-1811-6 **	60	29.5	34.9	30.57	34.58
FH28D-64S-0.5SH(**)	586-1813-1 **	64	31.5	36.9	32.57	36.58
FH28D-68S-0.5SH(**)	586-1819-8 **	68	33.5	38.9	34.57	38.58
FH28D-74S-0.5SH(**)	586-1828-9 **	74	36.5	41.9	37.57	41.58

Note 1 : This product is sold in embossed, tape and reel packaging. This product is sold in full reel quantities of either 2,000 or 500 pcs/ reels. Please place orders by full reel quantities.

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■Connector Dimensions

[Standard type] 1mm pitch product



Notes 1 The lead flatness of metal fitting and contact is 0.1 MAX.

2 The contact lead position shows the dimension from the E surface of the case bottom.

3 This product is sold in embossed, tape and reel packaging. For details on this product please refer to the “Packaging Specifications” located on page 9.

4 Recesses in part structure may be added to improve molding characteristics
Black marks may appear in the mold resin, but they will not negatively affect the performance of these connectors.

5 The color of the plating may change after the reflow process, but it will not negatively affect the performance of these connectors.

■Connector dimension table [Standard type]

Unit : mm

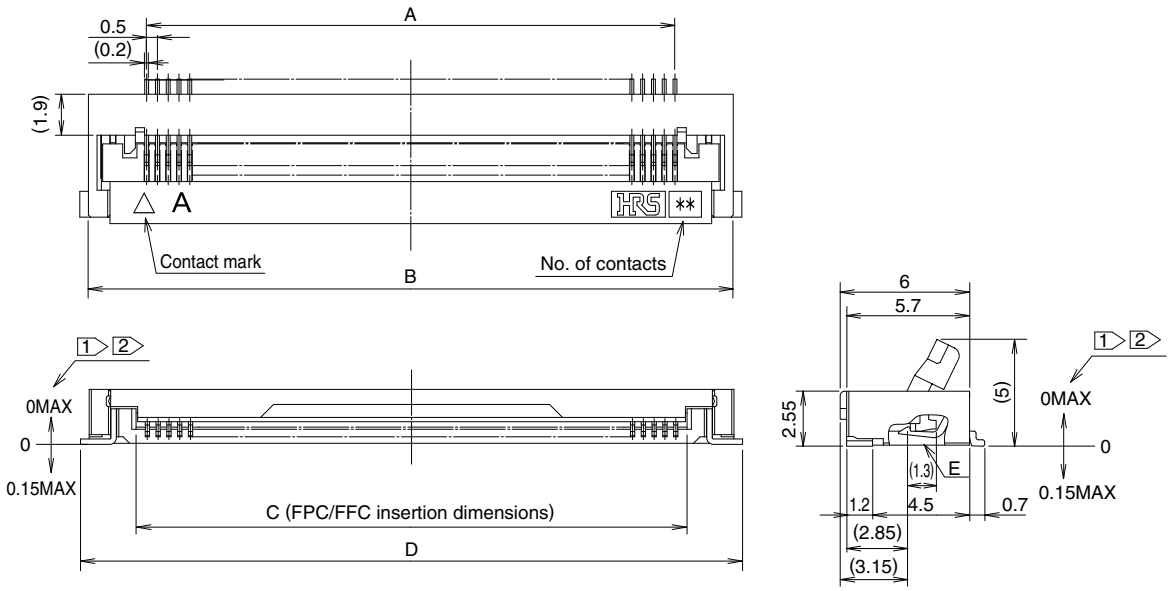
Part No.	HRS No.	No. of Contacts	A	B	C	D
FH28D-20(10)SB-1SH(**)	586-1863-0 **	10	9	14.9	10.57	14.58
FH28D-30(15)SB-1SH(**)	586-1860-1 **	15	14	19.9	15.57	19.58
FH28-40(20)SB-1SH(**)	586-1832-6 **	20	19	24.9	20.57	24.58
FH28D-50(25)SB-1SH(**)	586-1817-2 **	25	24	29.9	25.57	29.58
FH28-60(30)SB-1SH(**)	586-1818-5 **	30	29	34.9	30.57	34.58
FH28D-64(32)SB-1SH(**)	586-1852-3 **	32	31	36.9	32.57	36.58
FH28D-68(34)SB-1SH(**)	586-1812-9 **	34	33	38.9	34.57	38.58

Note 1 : This product is sold in embossed, tape and reel packaging. This product is sold in full reel quantities of either 2,000 or 500 pcs/ reels. Please place orders by full reel quantities.

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■Connector Dimensions

[Space-saving type]



Notes 1 The lead flatness of metal fitting and contact is 0.1 MAX.

2 The contact lead position shows the dimension from the E surface of the case bottom.

3 This product is sold in embossed, tape and reel packaging. For details on this product please refer to the “Packaging Specifications” located on page 9.

4 Recesses in part structure may be added to improve molding characteristics
Black marks may appear in the mold resin, but they will not negatively affect the performance of these connectors.

5 The color of the plating may change after the reflow process, but it will not negatively affect the performance of these connectors.

■Connector dimension table [Space-saving type]

Unit : mm

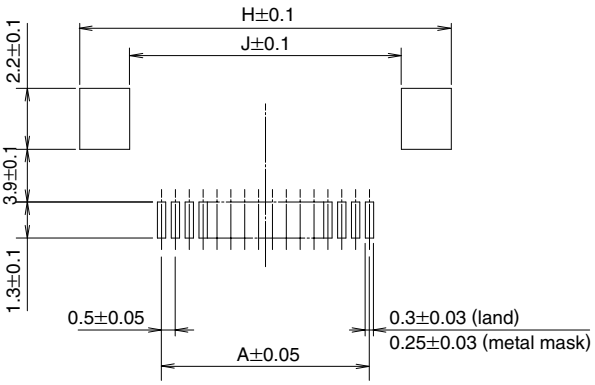
Part No.	HRS No.	No. of Contacts	A	B	C	D
FH28H-80S-0.5SH(**)	586-1805-3 **	80	39.5	44.9	40.57	45.7

Note 1 : This product is sold in embossed, tape and reel packaging. This product is sold in full reel quantities of either 2,000 or 500 pcs/ reels. Please place orders by full reel quantities.

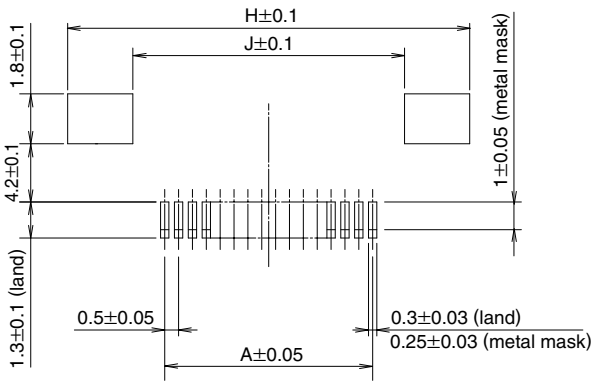
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Recommended PCB layout and metal mask dimensions for 0.5mm pitch products

Recommended metal mask thickness: t= 0.15

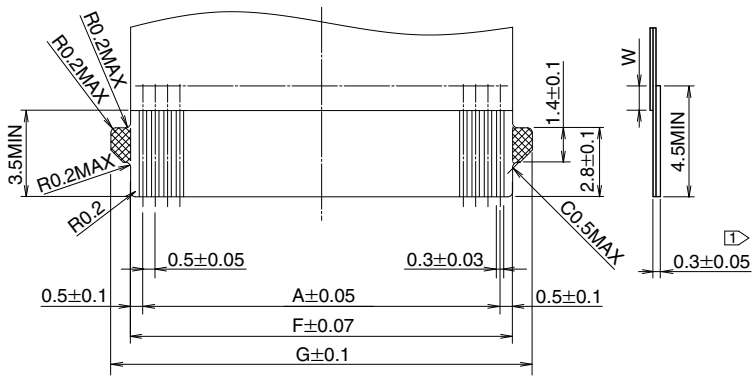


Standard type (FH28, FH28D)



Space-saving type (FH28H)

Recommended FPC/FFC dimensions for 0.5mm pitch products



Notes 1 The stiffener needs to be a minimum of 0.188 (7.5 mil) thick.
2 The W dimension needs to be a minimum of 0.5mm.

Recommended PCB layout, metal mask and FPC dimensions for 0.5mm pitch products

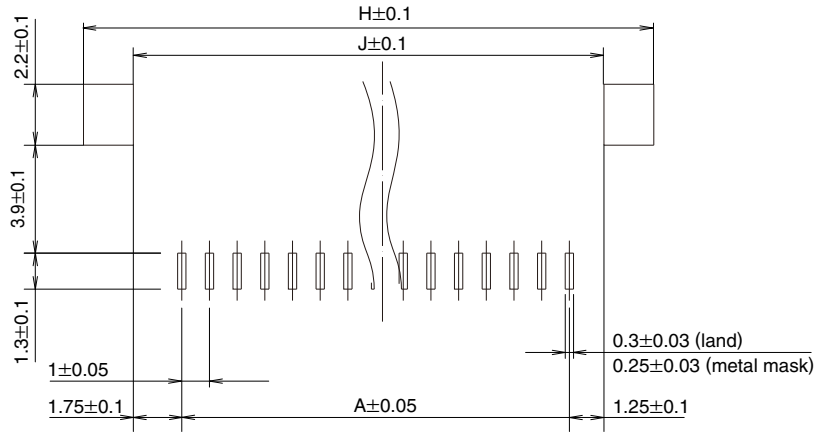
Unit : mm

Part No.	HRS No.	No. of Contacts	F	G	H	J
FH28-10S-0.5SH(**)	586-1861-4 **	10	5.5	7.1	10.6	7
FH28-15S-0.5SH(**)	586-1868-3 **	15	8	9.6	13.1	9.5
FH28D-20S-0.5SH(**)	586-1823-5 **	20	10.5	12.1	15.6	12.0
FH28D-28S-0.5SH(**)	586-1835-4 **	28	14.5	16.1	19.6	16.0
FH28D-30S-0.5SH(**)	586-1827-6 **	30	15.5	17.1	20.6	17.0
FH28-40S-0.5SH(**)	586-1803-8 **	40	20.5	22.1	25.6	22.0
FH28-45S-0.5SH(**)	586-1848-6 **	45	23	24.6	28.1	24.5
FH28D-50S-0.5SH(**)	586-1808-1 **	50	25.5	27.1	30.6	27.0
FH28D-55S-0.5SH(**)	586-1821-0 **	55	28.0	29.6	33.1	29.5
FH28-60S-0.5SH(**)	586-1811-6 **	60	30.5	32.1	35.6	32.0
FH28D-64S-0.5SH(**)	586-1813-1 **	64	32.5	34.1	37.6	34.0
FH28D-68S-0.5SH(**)	586-1819-8 **	68	34.5	36.1	39.6	36.0
FH28D-74S-0.5SH(**)	586-1828-9 **	74	37.5	39.1	42.6	39.0
FH28H-80S-0.5SH(**)	586-1805-3 **	80	40.5	42.1	46.7	42.0

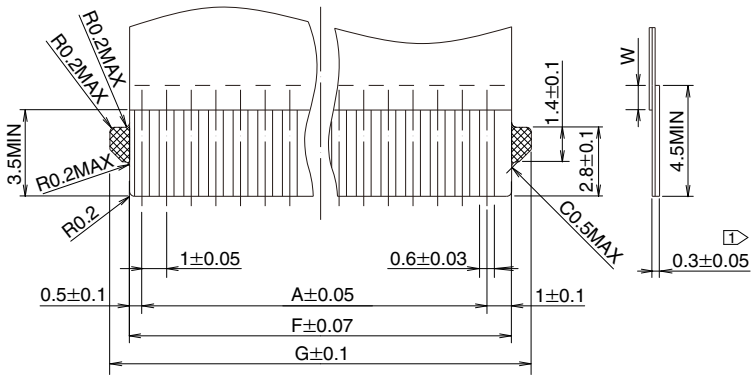
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Recommended PCB layout and metal mask dimensions for 1mm pitch products

Recommended metal mask thickness: t= 0.15



Recommended FPC/FFC dimensions for 1mm pitch products



Note 1 : The stiffener needs to be a minimum of 0.188 (7.5 mil) thick.
Note 2 : The W dimension needs to be a minimum of 0.5mm.

Recommended PCB layout, metal mask and FPC dimensions for 1mm pitch products

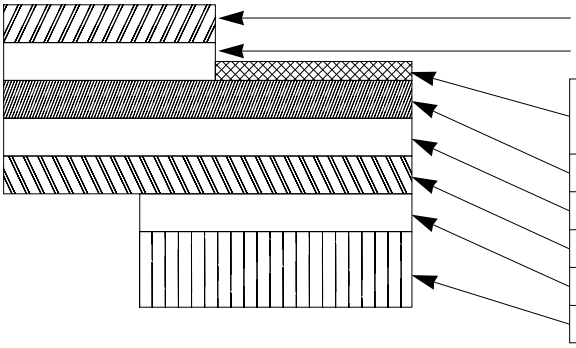
Unit : mm

Part No.	HRS No.	No. of Contacts	F	G	H	J
FH28D-20(10)SB-1SH(**)	586-1863-0 **	10	10.5	12.1	15.6	12
FH28D-30(15)SB-1SH(**)	586-1860-1 **	15	15.5	17.1	20.6	17
FH28-40(20)SB-1SH(**)	586-1832-6 **	20	20.5	22.1	25.6	22
FH28D-50(25)SB-1SH(**)	586-1817-2 **	25	25.5	27.1	30.6	27
FH28-60(30)SB-1SH(**)	586-1818-5 **	30	30.5	32.1	35.6	32
FH28D-64(32)SB-1SH(**)	586-1852-3 **	32	32.5	34.1	37.6	34
FH28D-68(34)SB-1SH(**)	586-1812-9 **	34	34.5	36.1	39.6	36

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◆FH28 Series FPC/FFC Material Configuration (Recommended Specifications)

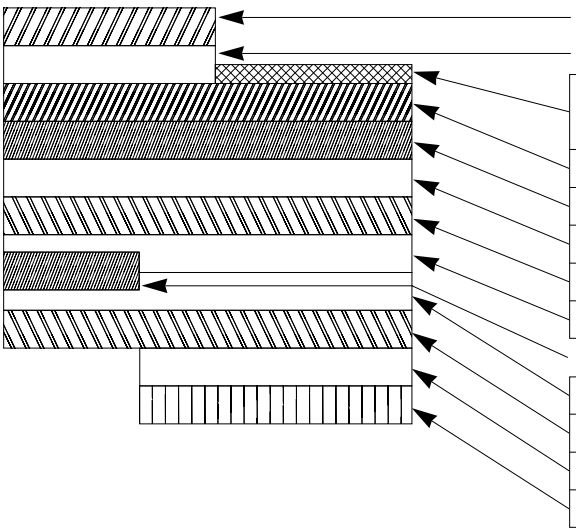
1. Single-Sided FPC



FPC : Flexible Printed Circuit

Layer	Materials	Thickness (μm)
Cover lay film	Polymide 1mil	(25)
Cover adhesive		(25)
Surface treatment	Under nickel plating 1~5μm+ gold plating 0.2μm	3
Copper foil	Cu 1oz	35
Base adhesive	Heat stiffener adhesive	25
Base film	Polymide 1mil	25
Stiffener adhesive	Heat stiffener adhesive	30
Reinforcing film	Polymide 7mil	175
	Total	293

2. Double-sided FPC

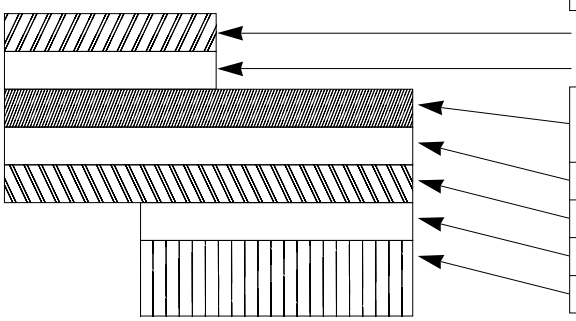


FPC : Flexible Printed Circuit

Layer	Materials	Thickness (μm)
Cover lay film	Polymide 1mil	(25)
Cover adhesive		(25)
Surface treatment	Under nickel plating 1~5μm+ gold plating 0.2μm	3
Through hole copper	Cu	15
Copper foil	Cu 1/2oz	18
Base adhesive	Heat stiffener adhesive	18
Base film	Polymide 1mil	25
Base adhesive	Heat stiffener adhesive	18
Copper foil	Cu 1/2oz	(18)
Cover adhesive	Heat stiffener adhesive	25
Cover lay film	Polymide 1mil	25
Stiffener adhesive	Heat stiffener adhesive	50
Reinforcing film	Polymide 4mil	100
	Total	297

∗ Remove the copper foil on the back of double-sided FPC to avoid damage due to FPC bending.

3. FFC



FFC : Flexible Flat Cable

Layer	Materials	Thickness (μm)
Polyester film		12
Adhesive	Polyester thermal plasticity	30
Annealed copper foil (Gold plated with under nickel plating)		35
Adhesive	Polyester type	30
Polyester		12
Adhesive	Polyester type	30
Reinforcing film	Polyester type	188
	Total	295

Nominal thickness tolerance is approximately ±20μm.

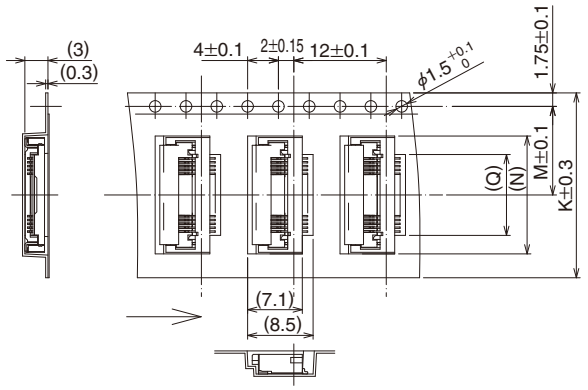
1. These specifications are an example of the material configuration of an FPC/FFC (t= 0.3 ±0.05) used on the FH28 series.
2. Please contact the FPC/FFC manufacturer for the material configurations of their FPC/FFC.

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◆Packaging Specifications

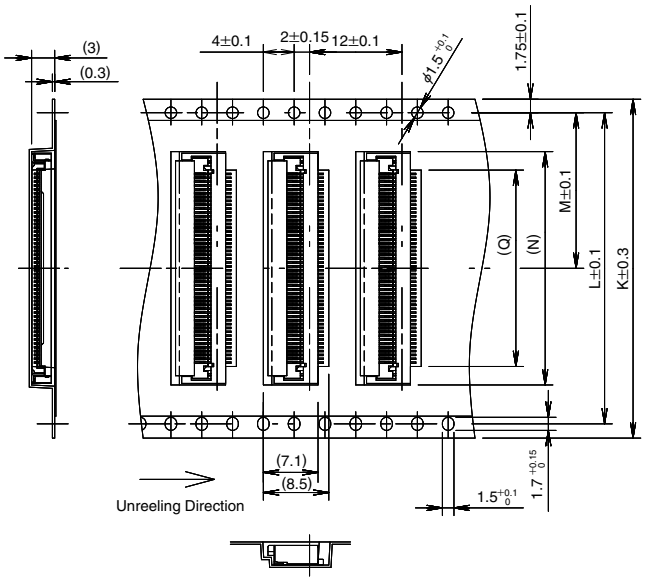
[Common specifications for FH28 Series]

●Embossed Carrier Tape Dimensions (with a maximum tape width of 24mm)

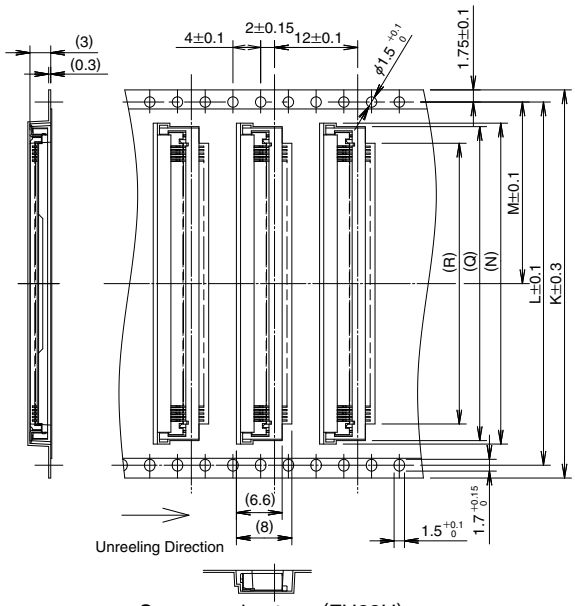


Standard type (FH28, FH28D)

●Embossed Carrier Tape Dimensions (with a minimum tape width of 32mm)

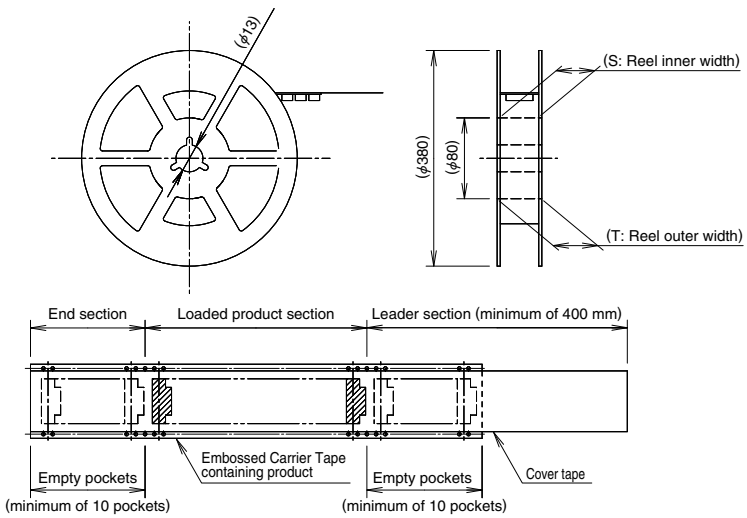


Standard type (FH28, FH28D)



Space-saving type (FH28H)

●Reel Dimensions



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◆Packaging specification dimensions [standard type] for 0.5mm pitch products

Unit : mm

Part No.	HRS No.	No. of Contacts	K	L	M	N	Q	S	T
FH28-10S-0.5SH(**)	586-1861-4 **	10	24	—	11.5	10.3	5.5	25.4	29.4
FH28-15S-0.5SH(**)	586-1868-3 **	15		—		12.8	8		
FH28D-20S-0.5SH(**)	586-1823-5 **	20		—		15.3	10.5		
FH28D-28S-0.5SH(**)	586-1835-4 **	28	32	28.4	14.2	19.3	14.5	33.4	37.4
FH28D-30S-0.5SH(**)	586-1827-6 **	30				20.3	15.5		
FH28-40S-0.5SH(**)	586-1803-8 **	40	44	40.4	20.2	25.3	20.5	45.4	49.4
FH28-45S-0.5SH(**)	586-1848-6 **	45				27.8	23		
FH28D-50S-0.5SH(**)	586-1808-1 **	50				30.3	25.5		
FH28D-55S-0.5SH(**)	586-1821-0 **	55				32.8	28.0		
FH28-60S-0.5SH(**)	586-1811-6 **	60	56	52.4	26.2	35.3	30.5	57.4	61.4
FH28D-64S-0.5SH(**)	586-1813-1 **	64				37.3	32.5		
FH28D-68S-0.5SH(**)	586-1819-8 **	68				39.3	34.5		
FH28D-74S-0.5SH(**)	586-1828-9 **	74				43.3	42.3		

◆Packaging specification dimensions [standard type] for 1mm pitch products

Unit : mm

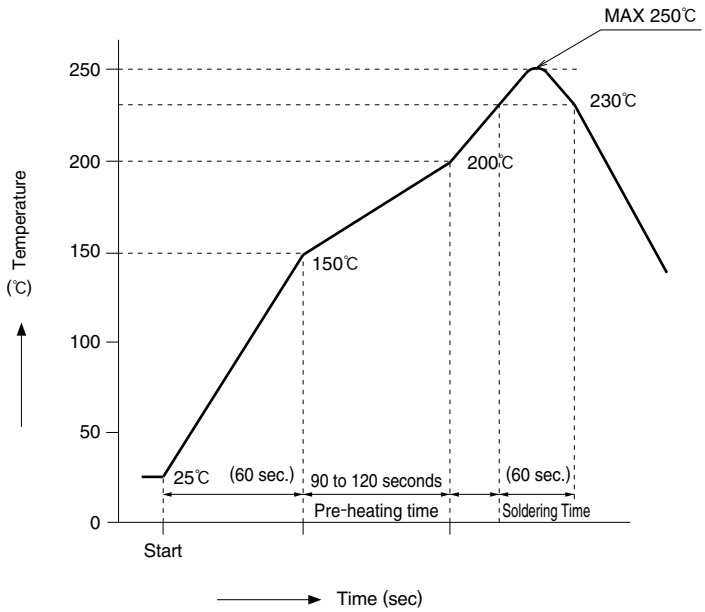
Part No.	HRS No.	No. of Contacts	K	L	M	N	Q	S	T
FH28D-20(10)SB-1SH(**)	586-1863-0 **	10	24	—	11.5	15.3	10.5	25.4	29.4
FH28D-30(15)SB-1SH(**)	586-1860-1 **	15	32	28.4	14.2	20.3	15.5	33.4	37.4
FH28-40(20)SB-1SH(**)	586-1832-6 **	20	44	40.4	20.2	25.3	20.5	45.4	49.4
FH28D-50(25)SB-1SH(**)	586-1817-2 **	25				30.3	25.5		
FH28-60(30)SB-1SH(**)	586-1818-5 **	30	56	52.4	26.2	35.3	30.5	57.4	61.4
FH28D-64(32)SB-1SH(**)	586-1852-3 **	32				37.3	32.5		
FH28D-68(34)SB-1SH(**)	586-1812-9 **	34				39.3	34.5		

◆Packaging specification dimensions [Space-saving type]

Unit : mm

Part No.	HRS No.	No. of Contacts	K	L	M	N	Q	R	S	T
FH28H-80S-0.5SH(**)	586-1805-3 **	80	56	52.4	26.2	46.3	45.3	40.5	57.4	61.4

◆Recommended soldering profile



Applicable Conditions

Reflow type : Far red/hot air reflow
Reflow furnace atmosphere : Atmosphere
Soldering : Cream type
Sn/3.0Ag/0.5Cu
(M705-221CM5-32-10.5 made by Senju Metal Industry Co.)
Testing PCB : Glass epoxy 55×150×1.6mm

Land/metal mask dimensions Our recommendation conditions

This solder profile is based on the conditions provided above.
Please check the mounting conditions before use, conditions such as solder paste types, manufacturer, PCB size and any other soldering materials may alter the performance of such materials.

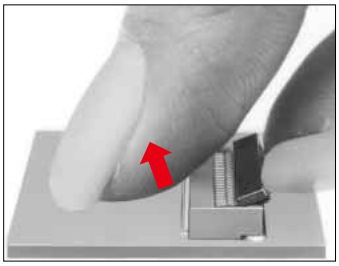
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◆Operation Methods of Connector and Precautions

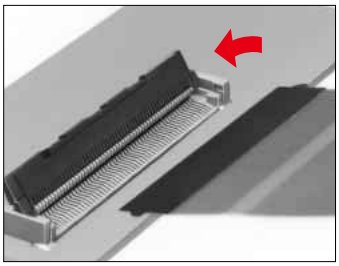
Operation Methods	Precautions for use

1. FPC/FFC insertion method

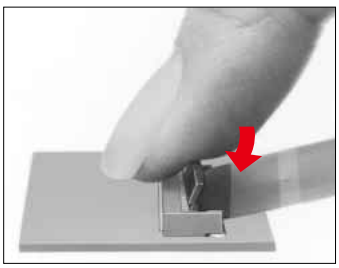
❶ Rotate the actuator upward to unlock it
The actuator can be easily operated with the use of a thumb nail or index finger.



❷ Insert the FPC/FFC with the contact surface facing down. FH28 is a bottom contact type connector.
Insert FPC/FFC from the diagonally left side of the connector. Insert the FPC/FFC at a diagonal angle and lay it into position. Insert it until the FPC/FFC is securely hooked on the positioning area. Check to see if it is retained by pulling lightly on it.
For detail, refer to the next page.

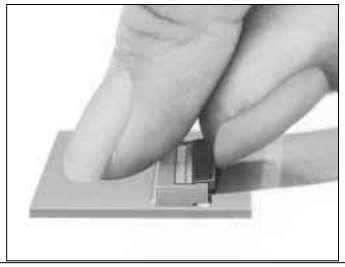


❸ Rotate the actuator downward.

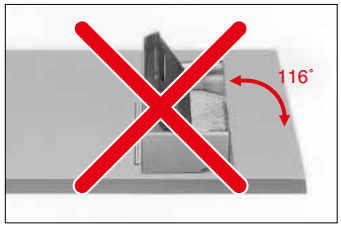


2. Removing the FPC/FFC

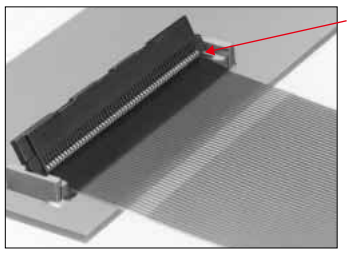
❶ Rotate the actuator upward, then angle the FPC/FFC upward after the actuator has been released and remove the FPC/FFC straight out.



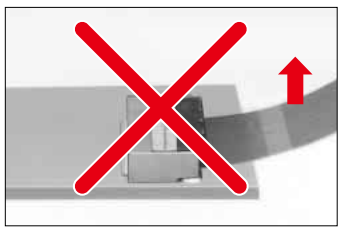
❶ The actuator on the FH28 series connector is designed to open to a maximum of 116 degrees, trying to open it farther than that will lead to damage.



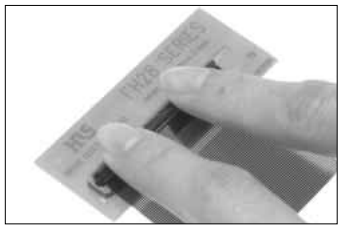
❷ Insert the FPC/FFC into the insertion slot as show below. Improper insertion can lead to damage and ultimately malfunction.



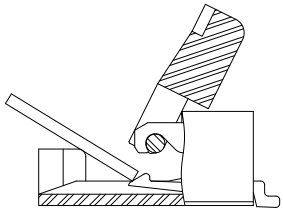
❸ Do not pull on the FPC/FFC in an upward direction, doing this can damage the connector as it is not equipped to handle a large amount of force in this direction.



❹ When dealing with a higher contact count (80 positions), be sure to use two fingers to close the actuator on both sides. Using one finger might not close it completely and leave an incomplete connection.



❺ When inserting FPC/FFC, do not rub it hard on the lower surface of the insertion slot of the connector. Otherwise, the contact hits hard on the FPC/FFC, and may cause the deformation of the contact or conductor separation etc. of the FPC/FFC. During the insertion of the FPC/FFC, make sure that



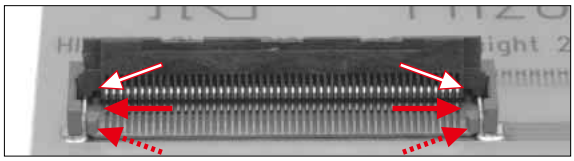
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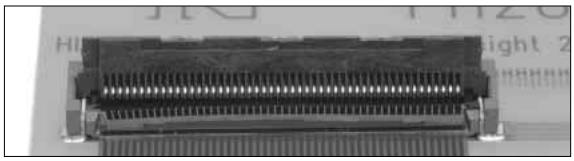
◆Cautions when mating FFFC/FPC with positioning tabs

Operation Methods

1. Position for insertion

Insert the cable into the gap (⋯▶) between the side walls (⟹) on both sides of the cable insertion port' and the 'guide walls (⟶) on both sides of the inner part of the connector' putting the tab of the cable on the gap.

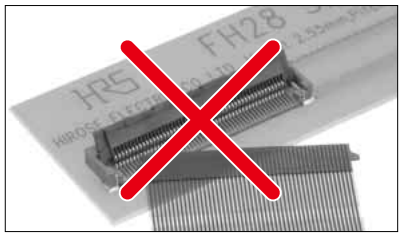




2. Cautions during insertion/mating

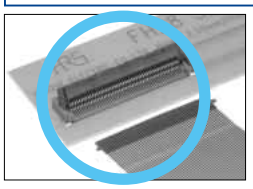
❶ Do not insert the FPC/FFC at an skewed angle (as shown), this type of action may cause the corner of the cable to get hooked and deform its contacts.

Skwed insertion



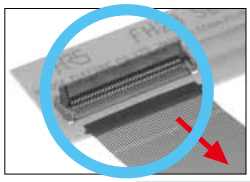
Insert the cable straight into the connector opening and hook the cable tab onto the guide.
Pull the cable towards yourself with a slight force after insertion, and close the actuator after confirming that the cable tab is completely secured.
If it cannot be pulled to out, the cable can be determined to be inserted into the correct position.

Recommended mating method

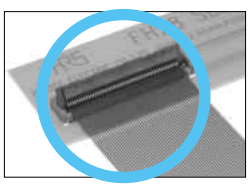


① Insert the cable straight from the diagonally left side.

② Pull the cable lightly to yourself and check if the tab is secured.



Pulling direction



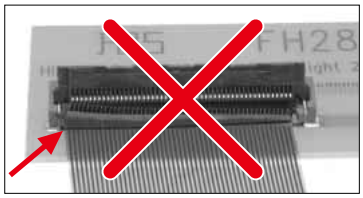
③ Close the actuator.

Precautions for use

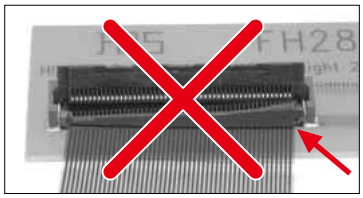
❷ PC/FFC must not over lap

Do not close the actuator until the FPC/FFC has been placed into its correct position. If it is sitting on the guides and the actuator closes onto it, it can cause damage and alter its performance.

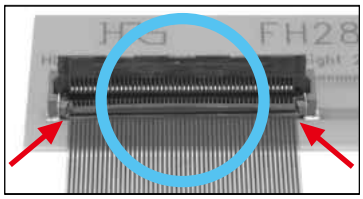
Incorrectly placed onto the left guide



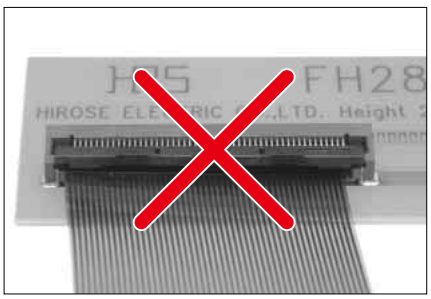
Incorrectly placed onto the right guide



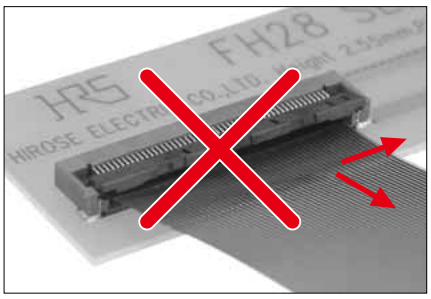
Normal insertion



Do not close the actuator with the cable sitting on either guide.



In case you accidentally close the lock with the cable sitting on the guides, do not move the cable around to make it seat. Open the actuator immediately and reposition the cable as explained in “1. Position for insertion” noted above.



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The characteristics and the specifications contained herein are for reference purpose. Please refer to the latest customer drawings prior to use.
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