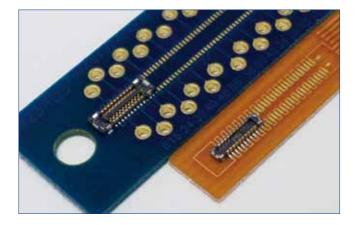
0.35mm Pitch, 0.6 and 0.8mm Height, Board to Board or Board to FPC Connectors

BM23FR Series



Features

1. Space-saving design

Compact design ideal for mobile devices (See Fig.1) •Pitch : 0.35mm, Width : 1.98mm, Stacking height : 0.6/0.8mm

2. Robust [Breaking Strength : 90N]

Metal guides prevent housing damage due to incorrect mating. (See Fig.2)

3. Highly reliable contact design

2-point contact design for signal contact ensures high reliability. (See Fig.3)

4. Good mating operation

Wide self alignment range with metal guides offers enhanced mating operation. (0.4mm in pitch direction, 0.35mm in width direction) Furthermore, a clear tactile click generated by the unique locking contact design insures complete mating.

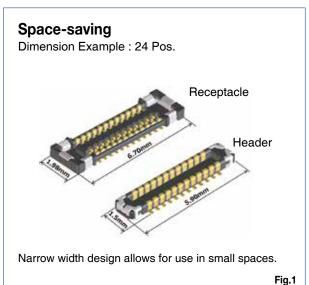
5. Supports USB 3.1 Gen.2 (10Gbps) transmission

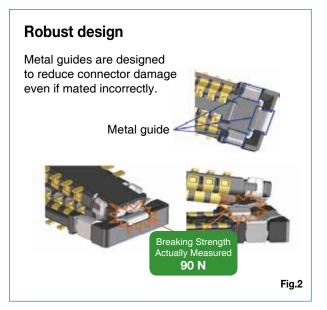
Signal contacts support USB3.1 Gen.2 transmission speed.

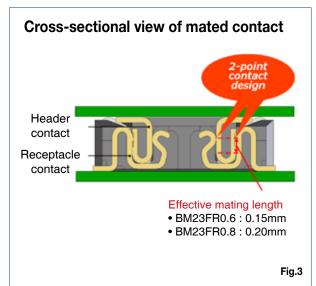
Environmental

·Halogen-free*

As defined by IEC 61249-2-21 Br : 900ppm max., Cl : 900ppm max. Br+Cl : 1,500ppm max.









Product Specifications

Datinar	Rated current	0.3A	Operating temperature range		to 85°C ote1)	Storage temperature range	-10°C to 60°C (Note2)				
Ratings	Rated voltage	30V AC/DC	Operating humidity range	20%	to 80%	Storage humidity range	40% to 70% (Note2)				
lte	Items Specifications					Conditions					
1. Contact re	esistance	100mΩ max.			Measured	d at 20mV AC, 1kHz, and	1mA				
2. Insulation	resistance	50MΩ min.			Measured	d at 100V DC					
3. Withstand	ding voltage	No flashover or ins	ulation breakdown		100V AC for 1 minute						
4. Durability		Contact resistance		10 mating cycles							
5. Vibration No electrical discontinuity for more than 1µs.				5.	Frequency: 10 to 55Hz, single amplitude : 0.75mm in 3 axis directions for 5 minutes, 10 cycles						
6. Shock res	esistance No electrical discontinuity of 1µs or more.					Acceleration : 490m/s ² , duration of pulse : 11ms at 3 times for 3 directions					
7. Humidity Contact resistance : 100mΩ max. Insulation resistance : 25mΩ min.					96 hours at temperature of 40±2°C and a humidity range from 90 to 95%						
8. Temperat	8. Temperature cycle Contact resistance: 100mΩ max. Insulation resistance: 50MΩ min.				-55°C for 30 minutes → 85°C for 30 minutes, 5 cycles						
9. Soldering heat resistance No dissolution or melting of the resin that will affect the performance.				Reflow: with recommended temperature profile; Hand soldering at soldering iron temperature of 350°C for 3 seconds max.							

Note 1 : Includes temperature rise caused by current flow.

Note 2: Storage refers to long-term-storage of unused items before they are mounted on the PCB.

Operating temperature/humidity range applies to the state of temporary storage such as non-powered after mounting on the PCB, and during transportation, etc.

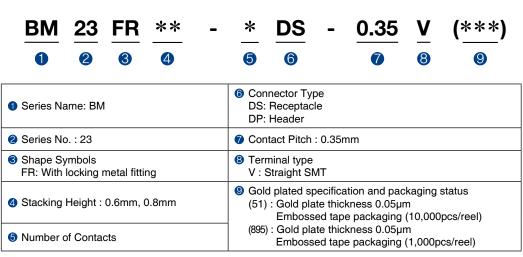
Materials / Finish

Product	Part	Material	Finish	UL Regulation
	Insulator	LCP	Black	UL94V-0
Receptacle Header	Contact	Copper alloy	Gold plating	
	Metal Fitting	Copper alloy	Gold plating	

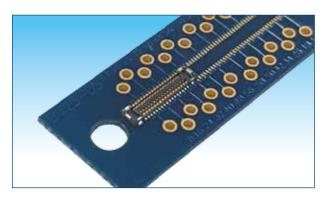
Product Number Structure

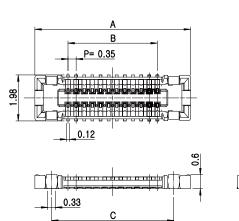
Refer to the chart below when determining the product specifications from the product number. Please select from the product numbers listed in this catalog when placing orders

Receptacle / Header



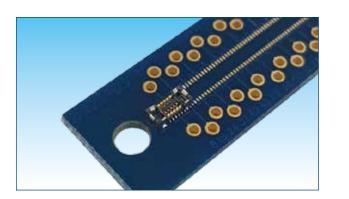
H=0.6mm Receptacle

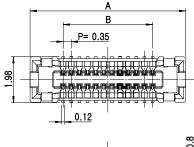


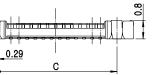




H=0.8mm Receptacle

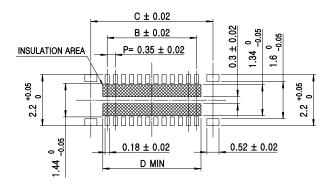




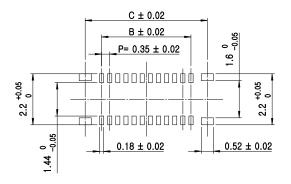




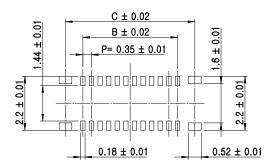
Recommended PCB layout [H=0.6 mm]



Recommended PCB layout [H=0.8 mm]



Recommended metal mask dimensions (mask thickness : 100μm) [0.6mm and 0.8mm common]



Unit : mm

HRS No.	No. of contacts	А	В	С	D
480-0287-0 **	6	3.55	0.70	2.11	1.08
480-0360-0 **	8	3.90	1.05	2.46	1.43
480-0258-0 **	10	4.25	1.40	2.81	1.78
480-0371-0 **	12	4.60	1.75	3.16	2.13
480-0295-0 **	16	5.30	2.45	3.86	2.83
480-0272-0 **	20	6.00	3.15 4.5		3.53
480-0260-0 **	24	6.70	3.85 5.		4.23
480-0327-0 **	30	7.75	4.90	6.31	5.28
480-0274-0 **	34	8.45	5.60	7.01	5.98
480-0390-0 **	40	9.50	6.65	8.06	7.03
480-0382-0 **	50	11.25 8.40		9.81	8.78
HRS No.	No. of contacts	A		3	С
480-0298-0 **	10	4.25		40	2.81
480-0469-0 **	18	5.65 2.80		80	4.21
480-0300-0 **	60	13.00	10	.15	11.56
	480-0287-0 ** 480-0360-0 ** 480-0258-0 ** 480-0295-0 ** 480-0295-0 ** 480-0272-0 ** 480-0260-0 ** 480-0327-0 ** 480-0327-0 ** 480-0390-0 ** 480-0382-0 ** 480-0298-0 ** 480-0298-0 **	480-0287-0 ** 6 480-0360-0 ** 8 480-0258-0 ** 10 480-0295-0 ** 12 480-0295-0 ** 16 480-0295-0 ** 20 480-0272-0 ** 20 480-0272-0 ** 30 480-0274-0 ** 34 480-0327-0 ** 50 HRS No. No. of contacts 480-0298-0 ** 10 480-0298-0 ** 18	480-0287-0 ** 6 3.55 480-0360-0 ** 8 3.90 480-0258-0 ** 10 4.25 480-0271-0 ** 12 4.60 480-0295-0 ** 16 5.30 480-0295-0 ** 20 6.00 480-0295-0 ** 20 6.00 480-0295-0 ** 20 6.00 480-0272-0 ** 20 6.70 480-0270-0 ** 30 7.75 480-0274-0 ** 34 8.45 480-0390-0 ** 40 9.50 480-0382-0 ** 50 11.25 HRS No. No. of contacts A 480-0298-0 ** 10 4.25 480-0298-0 ** 10 4.25	480-0287-0** 6 3.55 0.70 480-0360-0** 8 3.90 1.05 480-0258-0** 10 4.25 1.40 480-0258-0** 12 4.60 1.75 480-0295-0** 16 5.30 2.45 480-0295-0** 20 6.00 3.15 480-0272-0** 20 6.70 3.85 480-0272-0** 30 7.75 4.90 480-0274-0** 34 8.45 5.60 480-0274-0** 34 8.45 5.60 480-0390-0** 40 9.50 6.65 480-0382-0** 50 11.25 8.40 HRS No. No. of contacts A I 480-0298-0** 10 4.25 1.40	480-0287-0 ** 6 3.55 0.70 2.11 480-0360-0 ** 8 3.90 1.05 2.46 480-0258-0 ** 10 4.25 1.40 2.81 480-0271-0 ** 12 4.60 1.75 3.16 480-0295-0 ** 16 5.30 2.45 3.86 480-0295-0 ** 16 5.30 2.45 3.86 480-0295-0 ** 20 6.00 3.15 4.56 480-0272-0 ** 20 6.00 3.15 4.56 480-0270-0 ** 30 7.75 4.90 6.31 480-0274-0 ** 34 8.45 5.60 7.01 480-0390-0 ** 40 9.50 6.65 8.06 480-0382-0 ** 50 11.25 8.40 9.81 HRS No. No. of contacts A B 1.40 9.81 480-0298-0 ** 10 4.25 1.40 9.81 480-0298-0 ** 10 4.25 1.40 9.81

Note 1 : Please place orders in full reel quantities.

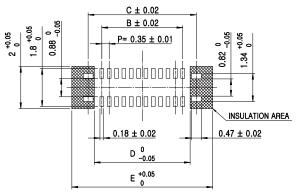
Note 2 : This connector has no polarity.

Note 3 : The specification number(895) in the Part No. changes to(95) in the HRS No.

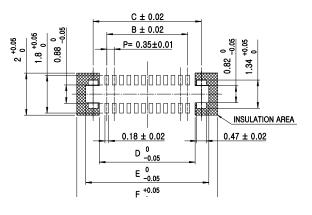
С

■H=0.6mm Header В P= 0.35 5. Γ, 6 0.12 0.515 0.31 С ■H=0.8mm Header А в P= 0.35 ╷<u>╇</u>╷┑╷┑╷┑╷┑<u>┍</u>╻**┑┍╻┍╻**╇╷</u>∲ ഹ 0.12 0.64 ♣】 0.31

Recommended PCB layout [H=0.6mm]

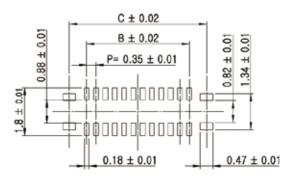


Recommended PCB layout [H=0.8mm]





Recommended metal mask dimensions (mask thickness : 100μm) [0.6mm and 0.8mm common]



Unit : mm

								Unit . Initi
Part No.	HRS No.	No. of contacts	A	В	0		D	E
BM23FR0.6-6DP-0.35V(***)	480-0286-0 **	6	2.75	0.70	2.	00	1.41	3.55
BM23FR0.6-8DP-0.35V(***)	480-0361-0 **	8	3.10	1.05	2.	35	1.76	3.90
BM23FR0.6-10DP-0.35V(***)	480-0257-0 **	10	3.45	1.40	2.	70	2.11	4.25
BM23FR0.6-12DP-0.35V(***)	480-0364-0 **	12	3.80	1.75	3.	05	2.46	4.60
BM23FR0.6-16DP-0.35V(***)	480-0290-0 **	16	4.50	2.45	3.	75	3.16	5.30
BM23FR0.6-20DP-0.35V(***)	480-0273-0 **	20	5.20	3.15	4.	45	3.86	6.00
BM23FR0.6-24DP-0.35V(***)	480-0259-0 **	24	5.90	3.85	5.	15	4.56	6.70
BM23FR0.6-30DP-0.35V(***)	480-0328-0 **	30	6.95	4.90	6.	20	5.61	7.75
BM23FR0.6-34DP-0.35V(***)	480-0275-0 **	34	7.65	5.60	6.	90	6.31	8.45
BM23FR0.6-40DP-0.35V(***)	480-0391-0 **	40	8.70	6.65	7.	95	7.36	9.50
BM23FR0.6-50DP-0.35V(***)	480-0383-0 **	50	10.45	8.40	9.	70	9.11	11.25
Part No.	HRS No.	No. of contacts	A	В	С	D	E	F
BM23FR0.8-10DP-0.35V(***)	480-0297-0 **	10	3.45	1.40	2.70	2.11	3.41	4.25
BM23FR0.8-18DP-0.35V(***)	480-0468-0 **	18	4.85	2.80	4.10	3.51	4.81	5.65
BM23FR0.8-60DP-0.35V(***)	480-0299-0 **	60	12.20	10.15	11.45	10.86	5 12.16	13.00

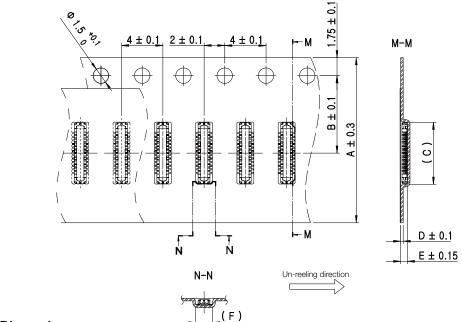
Note 1 : Please place orders in full reel quantities.

Note 2 : This connector has no polarity.

Note 3 : The specification number(895) in the Part No. changes to(95) in the HRS No.

Embossed Tape Dimensions (IEC 602286-3, with JIC C 0806)

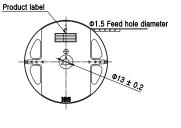
Receptacle

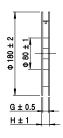




►10,000pcs/reel

Product label 01.5 Feed hole diameter $0_{1,3} \pm 0.2$ $G \pm 0.5$ H ± 1 ▶1,000pcs/reel





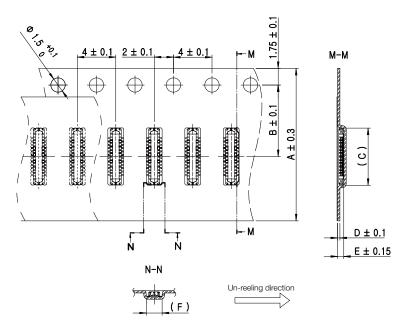
Unit : mm

Part No.	HRS No.	No. of contacts	А	в	С	D	Е	F	G	н	I
				_	-	_		-			
BM23FR0.6-6DS-0.35V(***)	480-0287-0 **	6	12	5.5	3.66	0.25	0.8	2.07	13.5	17.5	330
BM23FR0.6-8DS-0.35V(***)	480-0360-0 **	8	12	5.5	4.01	0.25	0.8	2.07	13.5	17.5	330
BM23FR0.6-10DS-0.35V(***)	480-0371-0 **	10	16	7.5	4.36	0.25	0.8	2.07	17.5	21.5	380
BM23FR0.6-12DS-0.35V(***)	480-0295-0 **	12	16	7.5	4.71	0.25	0.8	2.07	17.5	21.5	330
BM23FR0.6-16DS-0.35V(***)	480-0272-0 **	16	16	7.5	5.41	0.25	0.8	2.07	17.5	21.5	330
BM23FR0.6-20DS-0.35V(***)	480-0260-0 **	20	16	7.5	6.11	0.25	0.8	2.07	17.5	21.5	380
BM23FR0.6-24DS-0.35V(***)	480-0327-0 **	24	16	7.5	6.81	0.25	0.8	2.07	17.5	21.5	380
BM23FR0.6-30DS-0.35V(***)	480-0274-0 **	30	24	11.5	7.86	0.25	0.8	2.07	25.5	29.5	330
BM23FR0.6-34DS-0.35V(***)	480-0390-0 **	34	24	11.5	8.56	0.25	0.8	2.07	25.5	29.5	380
BM23FR0.6-40DS-0.35V(***)	480-0382-0 **	40	24	11.5	9.61	0.25	0.8	2.07	25.5	29.5	330
BM23FR0.6-50DS-0.35V(***)	480-0371-0 **	50	24	11.5	11.36	0.25	0.8	2.07	25.5	29.5	330
Part No.	HRS No.	No. of contacts	А	В	С	D	Е	F	G	н	I
BM23FR0.8-10DS-0.35V(***)	480-0298-0 **	10	16	7.5	4.36	0.3	1.0	2.07	17.5	21.5	330
BM23FR0.8-18DS-0.35V(***)	480-0469-0 **	18	16	7.5	5.76	0.3	1.0	2.07	17.5	21.5	330
BM23FR0.8-60DS-0.35V(***)	480-0300-0 **	60	24	11.5	13.11	0.3	1.0	2.07	25.5	29.5	330

Note 1 : The specification number(895) in the Part No. changes to(95) in the HRS No.

Embossed Tape Dimensions (IEC 602286-3, with JIC C 0806)

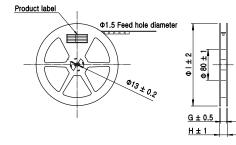
Header

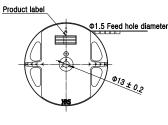


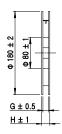
Reel Dimensions

►10,000pcs/reel

▶1,000pcs/reel







Unit	:	mm
•••••	•	

Part No.	HRS No.	No. of contacts	А	В	С	D	E	F	G	Н	I
BM23FR0.6-6DP-0.35V(***)	480-0286-0 **	6	12	5.5	2.85	0.25	0.65	1.58	13.5	17.5	330
BM23FR0.6-8DP-0.35V(***)	480-0361-0 **	8	12	5.5	3.20	0.25	0.65	1.58	13.5	17.5	330
BM23FR0.6-10DP-0.35V(***)	480-0257-0 **	10	12	5.5	3.55	0.25	0.65	1.64	13.5	17.5	380
BM23FR0.6-12DP-0.35V(***)	480-0364-0 **	12	12	5.5	3.90	0.25	0.65	1.64	13.5	17.5	330
BM23FR0.6-16DP-0.35V(***)	480-0290-0 **	16	16	7.5	4.60	0.25	0.65	1.64	17.5	21.5	330
BM23FR0.6-20DP-0.35V(***)	480-0273-0 **	20	16	7.5	5.30	0.25	0.65	1.64	17.5	21.5	380
BM23FR0.6-24DP-0.35V(***)	480-0259-0 **	24	16	7.5	6.00	0.25	0.65	1.64	17.5	21.5	380
BM23FR0.6-30DP-0.35V(***)	480-0328-0 **	30	16	7.5	7.05	0.25	0.65	1.64	17.5	21.5	330
BM23FR0.6-34DP-0.35V(***)	480-0275-0 **	34	16	7.5	7.75	0.25	0.65	1.64	17.5	21.5	380
BM23FR0.6-40DP-0.35V(***)	480-0391-0 **	40	24	11.5	8.80	0.25	0.65	1.64	25.5	29.5	330
BM23FR0.6-50DP-0.35V(***)	480-0383-0 **	50	24	11.5	10.55	0.25	0.65	1.64	25.5	29.5	330
Part No.	HRS No.	No. of contacts	А	В	С	D	E	F	G	Н	I
BM23FR0.8-10DP-0.35V(***)	480-0297-0 **	10	12	5.5	3.55	0.3	0.78	1.64	13.5	17.5	330
BM23FR0.8-18DP-0.35V(***)	480-0468-0 **	18	16	7.5	4.95	0.3	0.78	1.64	17.5	21.5	330
BM23FR0.8-60DP-0.35V(***)	480-0299-0 **	60	24	11.5	12.30	0.3	0.78	1.64	25.5	29.5	330

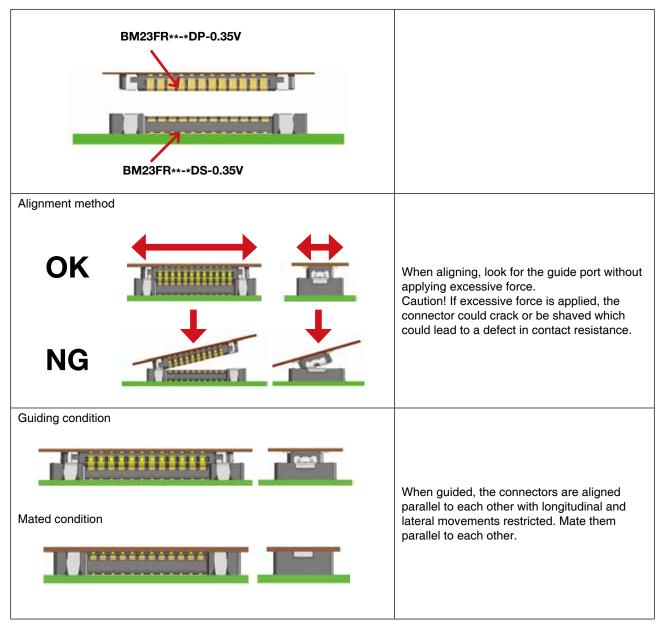
Note 1 : The specification number (895) in the Part No. changes to (95) in the HRS No.

Precautions

1. Recommended solder	MAX 250 °C						
temperature profile	250						
	220 °C						
	200 – 180°C						
	() 180 ern 150 °C 150 °C						
	50						
	25 - 25 °C/(60 seconds) 90 to 120 seconds Max. 60 seconds Preheating time Soldering time						
	0 - L , renearing white , obtaining white ,						
	Time (seconds)						
	[Conditions] 1. Peak temperature : Maximum of 250℃						
	2. Heat section: 220°C min., within 60 seconds3. Preheat section: 150 to 180°C, 90 to 120 seconds						
	4. Number of reflow cycles : Maximum of 2 cycles						
	Note 1 : The temperature is the surface temperature of the PCB in the vicinity of the connector lead part.						
	Note 2 : When using nitrogen reflow process, please mount the product with the oxygen concentration at a minimum of 1,000[ppm]. Please contact Hirose if the concentration is below 1,000 [ppm].						
2. Recommended manual soldering conditions	Soldering time : within 3 seconds						
3. Recommended screen thickness and open area ratio to PCB pattern area	Thickness : 0.1mm Aperture ratio : 100% on the DS side, 100% on the DP side						
4. Warpage of the PCB	A maximum of 0.02mm at the center part of the connector based on both ends of the connector.						
5. Cleaning	Not recommended. If this product is cleaned, please evaluate the performance before using it. Cleaning may cause a change in the mating/unmating properties as well as environmental resistance.						
6. Notes	Care sholud be taken when mating/unmating the connector and when it is not mounted on the PCB. Damage or deformation of the contacts may occur.						
	 Avoid supporting the PCB only with the connectors. Support it by other means such as bolts, screws, posts, etc. 						
	 Care should be taken to avoid excessive prying mating/unmating that could cause damage. 						
 During manual soldering, do not apply flux which will cause flux oozir This product may have slight color differences due to production lot v 							
	 does not have any effect on the performance. Please refer to the next page for precautions regarding mating/unmating. Because the product can disengage if dropped (or other impact), and by FPC 						
	routing, it is advised to secure the mated connectors to the board with housings and cushioning materials.						
	Caution! Do not use the connector in non-recommended conditions (i.e., rated current, rated voltage, PCB design and operating environment, etc.). Such usage could lead to material outgassing, ignition, or short-circuit, etc.						
	Refer to the specifications and the guidelines for board pattern dimensions, board cautions, and connector treatment.						
	Please contact Hirose if using the connector under conditions other than those described in the specifications and the guidelines is being considered.						

HRS 9

Handle with care when mating a connector



• Handle with care when un-mating connectors

ок		Un-mate connectors parallel to each other.
ок	Pitch direction	If the connector cannot be un-mated parallel, it can be removed diagonally from the pitch direction, as shown in the left figure. However, the connector can be broken if the FPC is not rigid. Please confirm rigidity of the FPC at the time of trial production.
NG	Corner direction	Do not pull from the corner. If it is pulled from the corner as shown in the left figure, the contact and connector could be damaged.
NG	Televise	Please provide a reinforcing plate for the FPC. If the rigidity of the FPC is not sufficient, the connector may break as shown in the left figure. Please check the action of the FPC to be used repeatedly. A reinforcing plate of 0.3mm or thicker made of glass epoxy material, or 0.2mm or thicker stainless steel is recommended

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