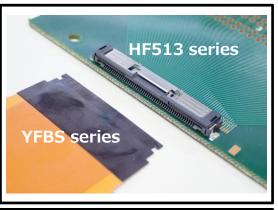
HF513 YFBS SERIES

40Gbps High speed transmission Connector & FPC (YFLEX®)



HF513 series (40Gbps High speed transmission Connector)
YFBS series (40Gbps High speed transmission FPC YFLEX®)

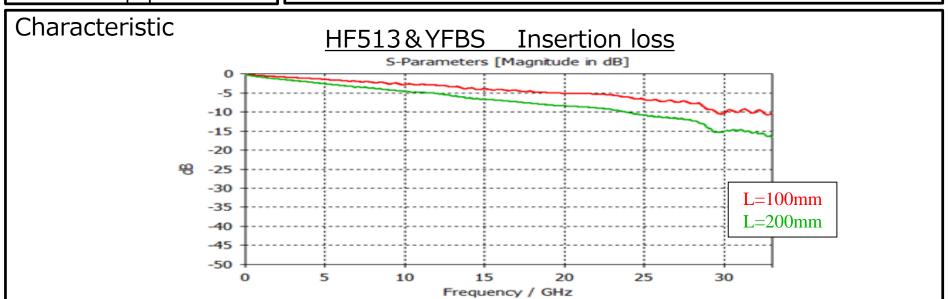
- High speed transmission such as PCI Express 5.0, Thunderbolt 3 is possible
- 56G PAM4 transmission is possible with the combination of HF513 and YFBS
- Total guarantee of HF513 and YFBS is possible

Application

5G base station, IoT, AI, 8K4K, Telecom Datacom, Network equipment

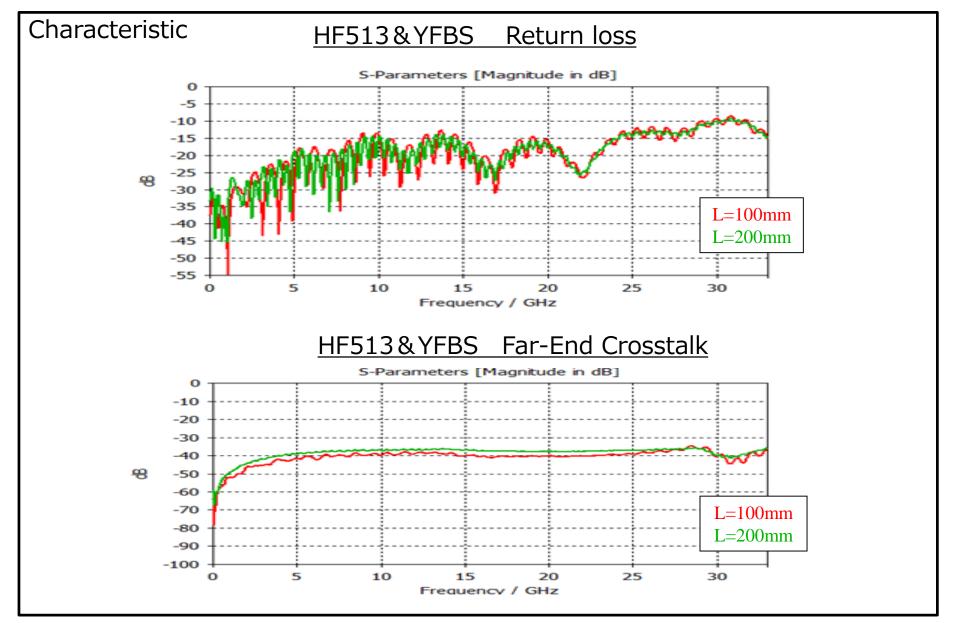
Usage

- High speed transmission cable such as 40Gbps/ch
- · Chip to Chip / Chip to Module Jumper cable





40Gbps High speed transmission Connector & FPC (YFLEX®)



HF513

YFBS

40Gbps High speed transmission Connector



Application

5G base station, IoT, AI, 8K4K, Telecom Datacom, Network equipment

HF513 series

HF513-**-**-VE GND: with=11, without=01 pins

Feature

- High speed transmission(40Gbps/ch)
- Compatible with 125 ℃
- 0.5mm pitch With cable lock
- Direct insertion type
- Resistant to foreign matter
- Automatic insertion is possible
- 56G PAM4 transmission is possible with YFLEX®

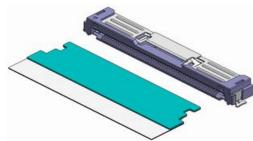
Specification

Current Rating	0.5A
Voltafe Rating	AC/DC 50V
Operating Temp. Range	-40℃~+125℃
Matching Cycles	20 times
FPC/FFC Holding Power	min. 9.8N

pins	30	40	50
available	0	\circ	\circ

Structure

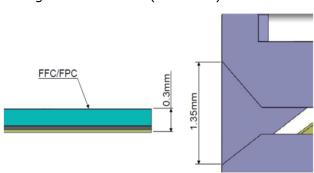
How to remove FFC



- 1) Press the sheet metal in the center of the connector to unlock
- ②Pull out the FFC / FPC horizontally while unlocked

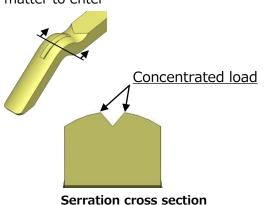
Guiding design to insert correctly

FPC / FFC insertion workability FPC / FFC has a thickness of 0.3 mm and quidance function(1.35 mm).



Serration structure

The structure does not allow foreign matter to enter



40Gbps High speed transmission FPC (YFLEX®)



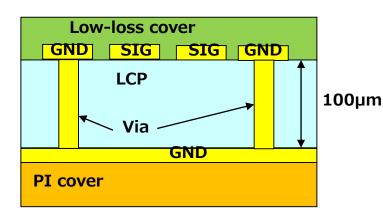
Application

5G base station, IoT, AI, 8K4K, Telecom Datacom, Network equipment

YFBS series Feature

- High speed transmission FPC cable
- Compatible with 125 ℃
- Liquid crystal polymer (LCP) with excellent low loss and high frequency characteristics is used for the base film.
- · Length: Max.460mm
- Bending is possible by customer request
- Custom wiring design is possible according to individual required performance such as pin assignment, low loss, and emphasis on low crosstalk.
- 56G PAM4 transmission is possible with our product "HF513"

Structure diagram



Specification

Test item	Test method	Reliability criteria	
	DC±5V		
Insulation resistance	1minute	500m $Ω$ min.	
	JIS-C5016		
Voltage resistance	AC±5V	No spark, flashover and so on	
	0.5minute		
	JIS-C5016		
Peel strength	JIS-C5016	4.9N/cm min.	