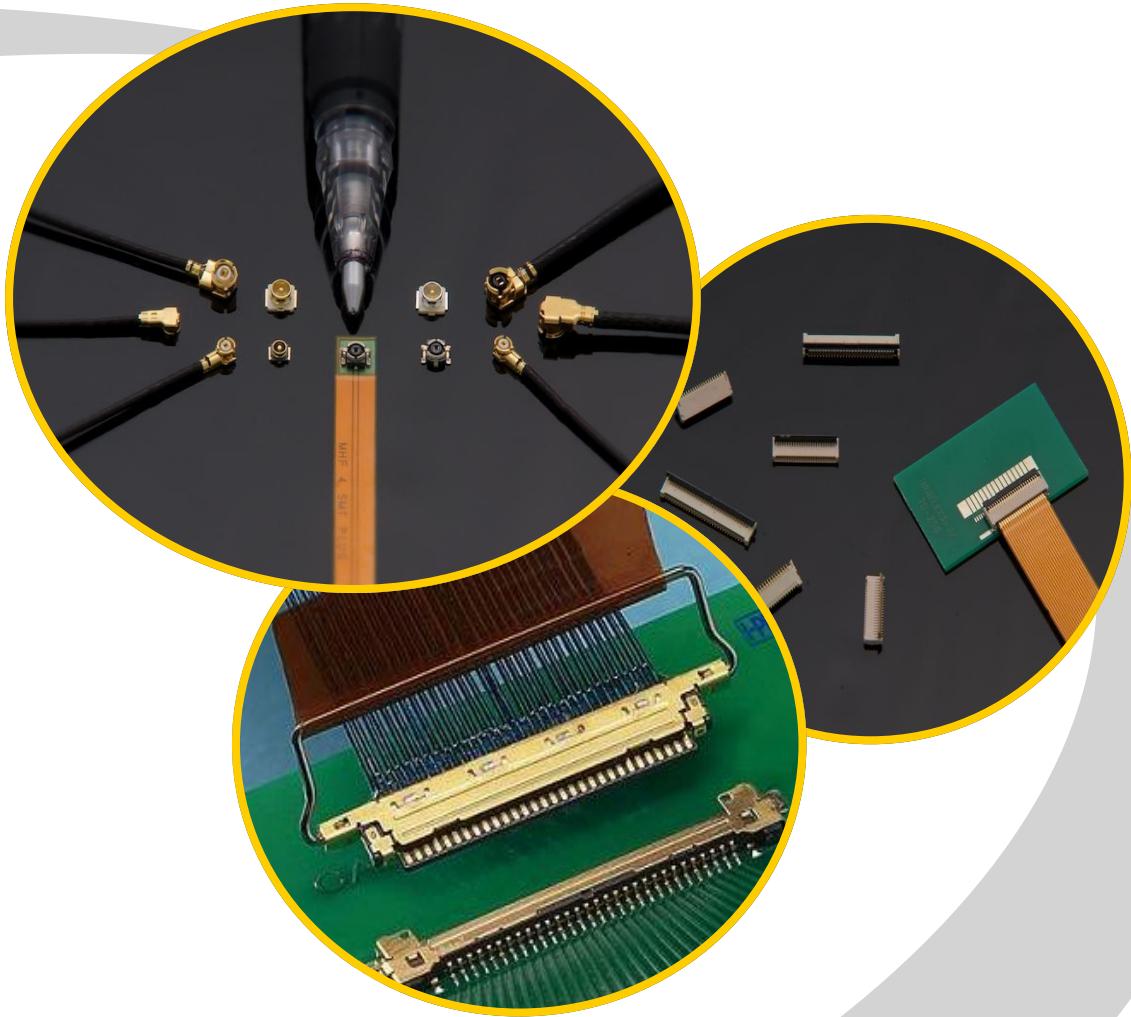




*Interconnect
and Packaging Electronics*



I-PEX miniature interconnect

The **MHF** family consists of 5 series of connectors with frequency range DC up to 6GHz (VSWR: 1.5 MAX). All are available with gold plating for superior performance and allow 360 degree cable mounting. The range offers mating heights from 1.2 to 2.5mm.

MINIFLEX FFC/FPC connectors have options of 0.3 and 0.5mm pitches, back flip latches, vertical or right-angle cable entry and heights from 0.9 to 4mm.

CABLINER® is a range of miniature coaxial to board connectors suited to the requirements of high speed display signals.

A comprehensive range of solutions from 0.25 to 1.25mm pitch, including CABLINER® VS certified to VESA® 16.9 version 1.

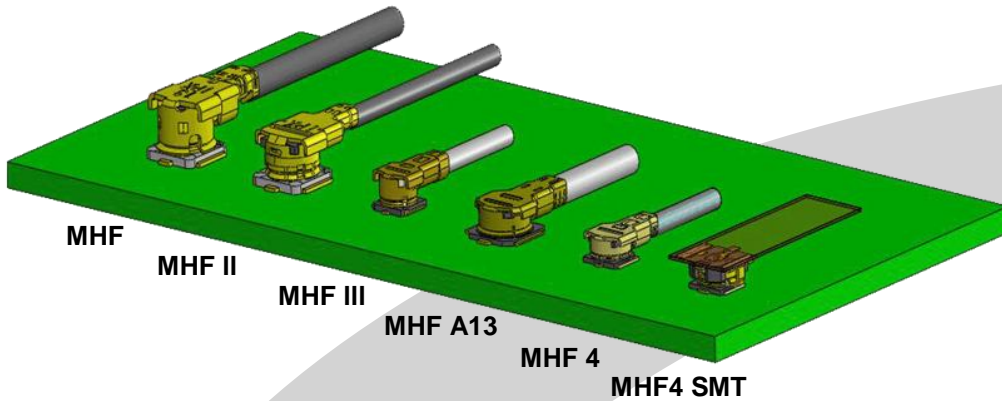
Duplex CSA - Strategic Partner of I-Pex

MHF Miniature Coaxial Products



Features

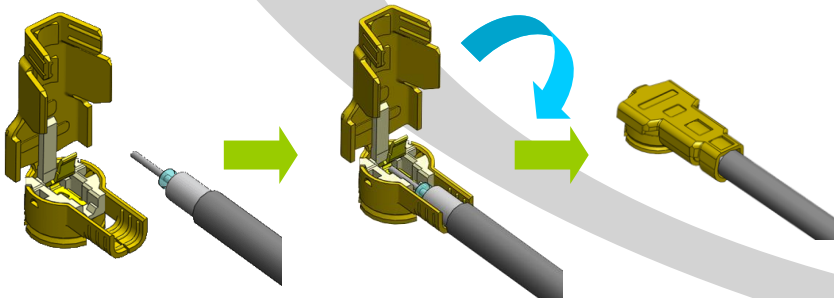
1. Low cost assemblies made possible by using "i-Fit®" Technology.
2. SMT receptacle compatible with other leading manufacturers' PCB layouts.
3. Ultra Low Profile: 1.2/1.45/1.6/2.1 and 2.5mm high.
4. Frequency range: DC to 6GHz.
5. Characteristic impedance: 50 ohms
6. Temperature: -40°C to +90°C
7. Rated Voltage: AC 60V.



Applicable Cables / Mating Height

	MHF Receptacle			MHF III Receptacle	MHF A Receptacle		MHF 4 Receptacle	
	MHF Plug	MHF II Plug	MHF III Plug	MHF-A13 Plug	MHF 4 Plug	MHF 4 SMT Plug		
Mating Height	2.5mm (max)	2.1mm (max)	1.6mm (max)	1.45mm (max)	1.22mm (max)	1.2mm (max)		
	O.D.	O.D.	O.D.	O.D.	O.D.			
Gold/ Gold	3 pads 4 pads	0.81mm 1.13mm 1.32mm 1.80mm	1.37mm	0.81mm	0.81mm 0.64mm	1.13mm	0.81mm	-
Gold/ Silver	3 pads	1.13mm 1.32mm	N/A	0.81mm 0.98mm	N/A	N/A	N/A	N/A

i-Fit® Termination: Simple, easy, and speedy solderless cable termination in one operation gives consistent, high reliability independent of operator



Major Applications

- Wireless LAN
- Antenna
- Mobile Phone
- Note Book Computer
- Game Equipment
- Digital Appliance
- Access Point



MINIFLEX Series FPC/FFC Connectors

1. Flip Lock Design

- Back flip prevents lock from releasing when FPC is pulled upwards.

2. Easy Cable Insertion

- **Wide front opening** allows easy insertion of FPC, **prevents damage to FPC** even with angled insertion.

3. One Sequence Motion

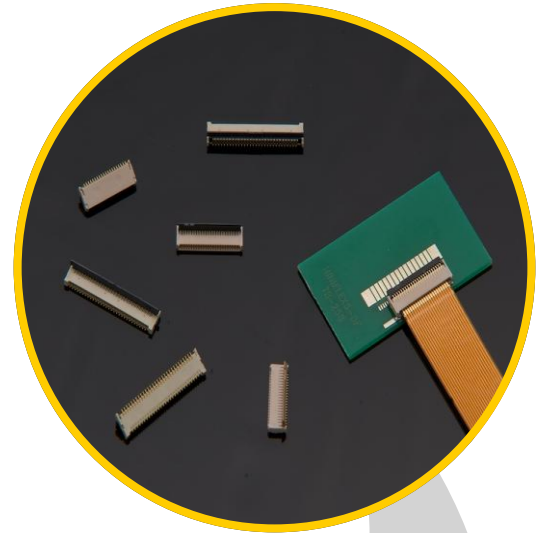
- Delivered with actuator open.
- Insertion of FPC and actuator locking can be done in one operation.

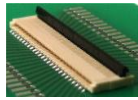

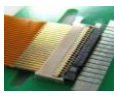

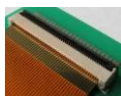
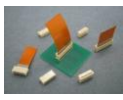
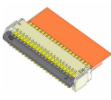
4. Over-Moulded Contacts

- The contacts are over-moulded and fully insulated
Allowing PCB tracking **underneath the connector.**

5. Tuning Fork Contacts.

- **Top and bottom contacts** allows the FFC / FPC to be presented either way



Product Name	MINIFLEX3-BFS	MINIFLEX3-VT	MINIFLEX5-BFS	MINIFLEX5-BF	MINIFLEX5-BF II	MINIFLEX5-NV	MINIFLEX5-BFN
Photo							
Pitch	0.3mm		0.5mm				
Type	Horizontal Back ZIF	Vertical ZIF Slider	Horizontal Back ZIF			Vertical NON-ZIF	Horizontal Back ZIF Narrow
Pin Count	60	21, 27, 33, 39, 45	4, 6, 8, 10, 12, 14, 19, 20	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28	10, 22, 30, 34, 40, 45, 50	6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30	10, 12, 16, 22, 30
FPC thickness	0.15±0.03	0.2±0.03	0.2±0.03	0.3±0.05			
Height (mm)	0.9	4.0	1.0	1.0	2.0	4.0	1.0
Width (mm) ACT :Closed	4.0 (4.93)	2.95	3.8 (4.9)	3.8 (4.9)	4.92 (5.9)	3.4	3.0 (3.5)
Traveling length (far / near)	0.3/0.25 mm	0.9/1.6 mm	1.3mm	1.3mm	1.35mm	-	1.0mm
FPC insertion depth	1.9mm	-	1.8mm	1.8mm	2.1mm	-	1.3mm
Contact point	Upper and Lower	-	Upper and Lower			-	Upper and Lower

Major Applications

- LED panel
- Digital camera
- MP3/4 players
- Mobile phone



Duplexcsa.co.uk

CABLINE® Series

Small gauge discrete coaxial cable connectors.



Major Applications

- High speed LCD panel interconnect
- Mobile phones
- LCD TV
- Notebook

CABLINE® - VS is certified as the VESA® 16:9 Notebook Panel standard interface connector

Product name	CABLINE-CX	CABLINE-UX	CABLINE-MS	CABLINE-UAII	CABLINE-SS	CABLINE-UB	CABLINE-UBII	CABLINE-V	CABLINE-CBL	CABLINE-VS
Photo										
Cable Pitch	0.25mm	0.25mm	0.3mm	0.3mm	0.4mm	0.4mm	0.4mm	0.4mm	0.4mm	0.5mm
Board Pitch	0.5mm	0.5mm	0.6mm	0.6mm	0.4mm	0.4mm	0.4mm	0.4mm	0.4mm	0.5mm
Pin count	40, (50)	34, (40), (50)	32, 40, 44, 50	32, (34), 40, 50	10, 14, 20, 30, 32, 35, 40, 50	20, 30, 36, 40	34, (40)	10, 15, 20, 25, 30, 35, 40	30, 40	20, 30, 40
H/V	Horizontal	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Horizontal	Horizontal	Horizontal
Nominal height	0.7mm	1.00mm	1.60mm	1.27mm	1.65mm	1.00mm	0.825mm	1.00mm	0.825mm	1.00mm
Maximum height	0.80mm	1.10mm	1.81mm	1.37mm	1.85mm	1.10mm	0.90mm	1.15mm	0.975mm	1.10mm
Depth	4.0mm (without Latch bar)	2.40mm	3.70mm	2.90mm	3.00mm	5.00mm	3.75mm	5.65mm	5.44mm (with Latch bar)	5.70mm (with Latch bar)
Width	14.5mm (without Latch Bar)	16.6 (50p)	6.1+Px(0.3)mm	17.0mm	5.8+P ±(0.4)mm	6.0+P ±(0.4)mm	21.1mm	4.4+P ±(0.4)mm	6.44+Px(0.4)mm (with Latch bar)	7.55+P ±(0.5)mm (with Latch bar)

Duplex Capabilities



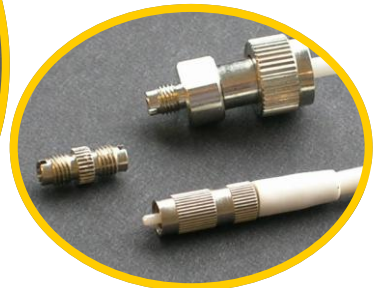
RF shielding with or without connectors



Cable assemblies



RF connectors, U-links and adaptors



Fibre



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v.1.0.10/09

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