

HIGH SPEED CONNECTOR SYSTEM (NON-ZIF)

HF503 / YFLEX - YFB SERIES

Connectors and matching cables for low voltage differential signal transmission

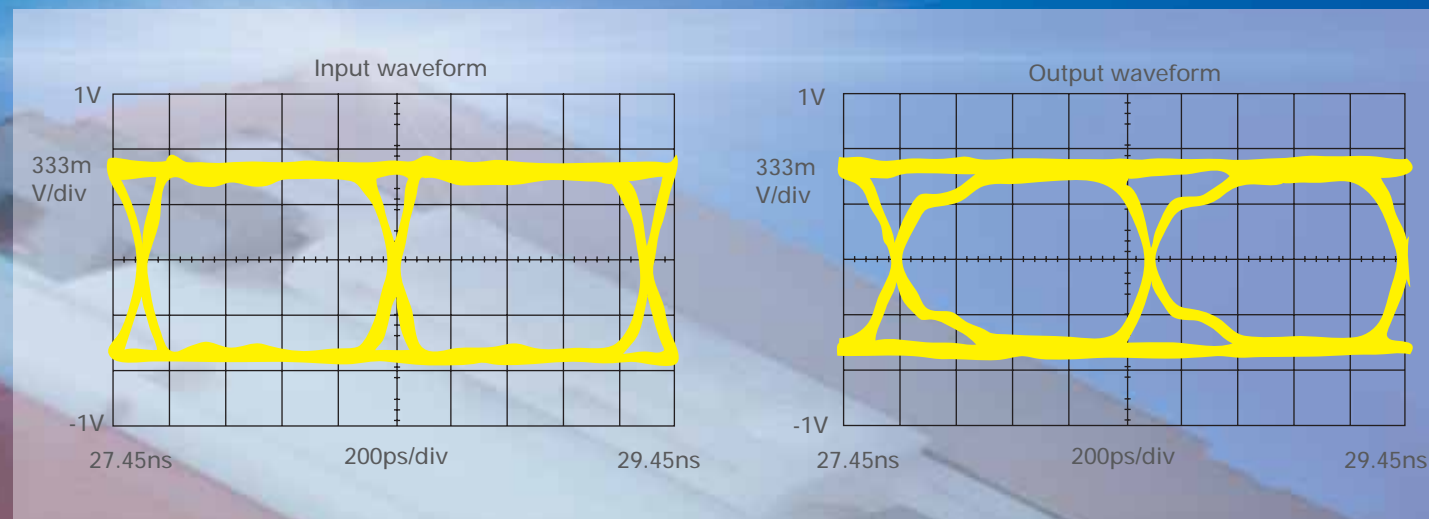
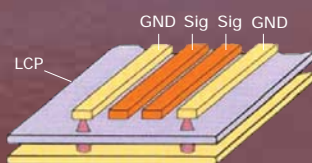
- Excellent impedance matching
- Secure locking mechanism
- Low cross-talk

Connector Features

- High speed board-to-cable connector series up to 1.1 Gbps
- Patented Push insertion with automatic locking mechanism
- Horizontal and vertical types
- Compact size
- RoHS compliant

YFLEX Features

- High speed transmission up to 3 Gbps
- Differential impedance 100Ω
- LCP based printed circuit cable
- Micro-strip line structure
- Customised FPC possible (e.g. length and layout style)
- RoHS compliant



Specifications

- Voltage Rating: 50V AC rms
- Current Rating: 0.3A (cable 0.1A)
- Insulation Resistance: 500MΩ min. at 125V DC
- Contact Resistance: 50MΩ max.
- Differential Impedance: 100Ω
- Withstanding Voltage: 125V AC rms for 1 minute
- Operating Temp. Range: -20°C to +85°C
- Insertion / Extraction: 10 times max.
- Solder Heat Resistance: Reflow soldering, 220°C for 60 sec. (260°C peak)

Materials and Finish - Connector

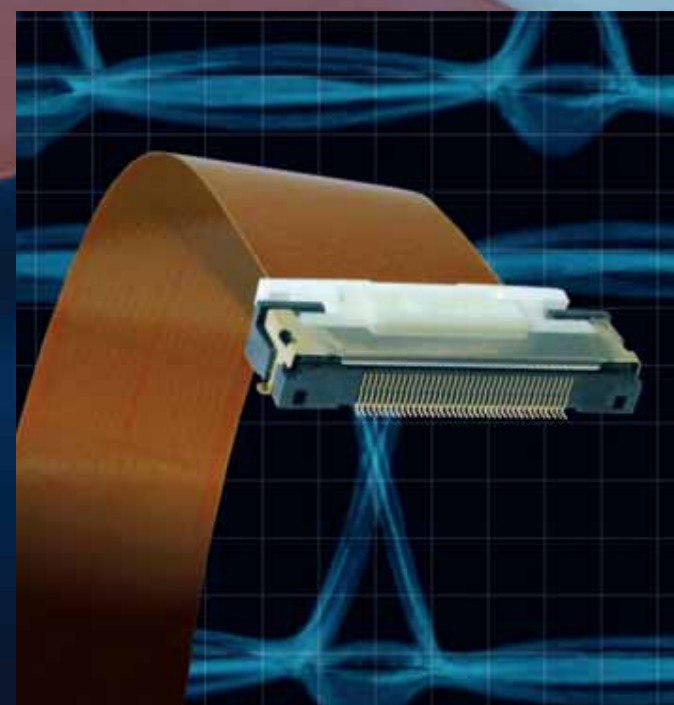
- Housing: LCP (UL94V-0), black
- Lock Hold: PA9T (UL94V-0), white
- Contacts: Phosphor Bronze, Au over Ni
- Shell: Phosphor Bronze, Au over Ni

Thickness and Finish - YFB Cable

- Base Material: LCP 50μm
- Conductive Material: Cu 12μm
- Cover Layer: Polyimide foil 25μm + adhesive 25μm
- Stiffener: PBT 0.53mm + adhesive 50μm
- Plating: Contact area 0.1μm Au over 3μm Ni

THE ALTERNATIVE FOR THIN COAXIAL CABLES Applications

- LVDS Transmission
- Car Navigation Systems
- Automated Test Equipment
- Medical Imaging
- Industrial Process Control
- Network Systems
- High-end Workstations
- Digital TV, Studio Cameras
- High Speed PCs and Set Top Boxes



Connector and Cable Line-up

Connector	Pin	Pitch	Orientation	GND Tabs	YFLEX Cable
HF502-20-01	20	0.60mm	Horizontal	with	YFB07-20A1-***
HF503-32-01	32	0.50mm	Horizontal	with	YFB10-320*-***
HF503-32-02	32	0.50mm	Vertical	with	YFB10-320*-***
HF503-38-01	38	0.50mm	Horizontal	with	YFB10-380*-***
HF503-38-02	38	0.50mm	Vertical	with	YFB10-380*-***
HF503-60-01	60	0.50mm	Horizontal	with	YFB10-6001-***