YAMAICHI ELECTRONICS

ENGINEERED TO CONNECT

AUTOMOTIVE SOLUTIONS

CONTENTS ～ PRODUCT GUIDE ～

YAMAICHI ELECTRONICS AUTOMOTIVE PRODUCTS

Based on our wide product range Yamaichi Electronics offers many solutions which are dedicated to automotive applications. Products which have a reliable design and functionality especially for the rough environmental and mechanical conditions in automotive use.

The range of our products is going from non-ZIF connectors, like the Y-Lock connector system, to connectors which can also match high-speed requirements. Connectors for internal use are the BEC-series or the Floating Board-to-Board series HF311 or the Y-CCC Car Computing Connector series for the next generation applications. For I/O applications Yamaichi is not only able to supply a big choice of card connectors, but also standardised interfaces like Minifakra, High-Speed Data Ethernet or Fakra/HSD connections. The Y-Quad connector for Quadlock connection boxes belongs as well to the connector family. For all the different connector systems Yamaichi Electronics is able to develop and supply also the suitable test adapter for the production lines.

当社は様々なソリューションに対応する為、幅広い製品を用意しております。
車載用途に適した実用性のあるデザイン、特に過酷な環境にも使用できるような機能性を兼ね備えております。
当社の製品は、Y-Lockコネクタのようなnon-ZIFコネクタから、高速伝送にも対応できるコネクタにまで及びます。内部接続用のコネクタでは、次世代アプリケーション向けのBECシリーズまたはフローティング基板対基板シリーズHF311またはY-CCCカーコンピューティングコネクタシリーズがございます。I / Oアプリケーションにおいては、カードコネクタの幅広い選択肢の提供が可能なだけではなく、Mini-fakra、高速データイーサネット、Fakra / HSD接続などの標準化されたインターフェイスも提供できます。Quadlock接続ボックス用のY-Quadコネクタもございます。当社は、ソリューションに応じた様々なコネクタを開発しております。

YAMAICHI ELECTRONICS OFFERS THE FOLLOWING SOLUTIONS
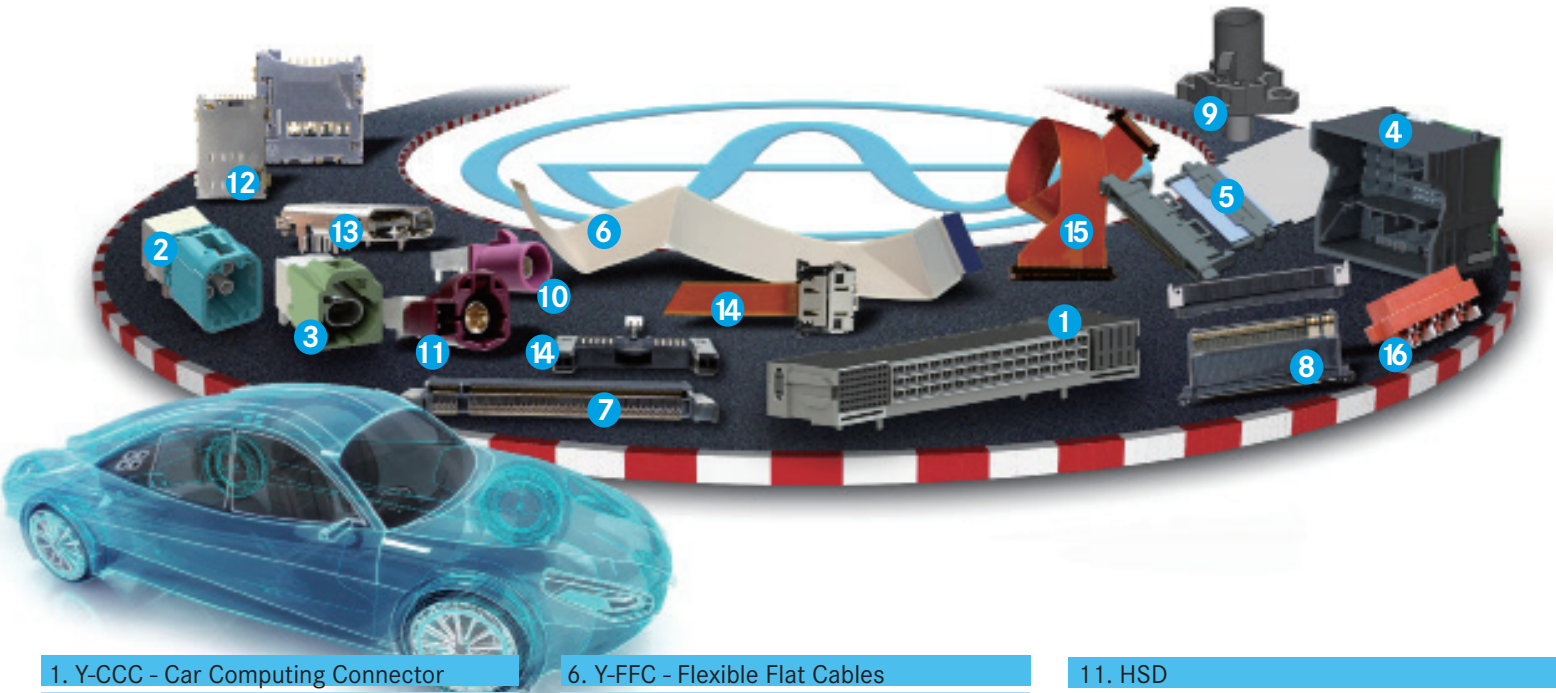
1. Y-CCC - Car Computing Connector	6. Y-FFC - Flexible Flat Cables	11. HSD
2. Y-MFC - Minifakra	7. BEC - Board Edge Connector Series	12. Card Connectors
3. Y-HDE - High-Speed Data Ethernet	8. Floating High-Speed BTB Connector	13. Customer Interfaces (USB, HDMI etc.)
4. Y-Quad - Automotive I/O	9. Y-CMC Camera Module Connector	14. High-Speed FFC/FPC Connector
5. Y-Lock - non-ZIF Pullforce Connector	10. FAKRA	15. YFLEX® High-Speed FPC
		16. Internal standard connectors

REFERENCE APPLICATIONS

- Head units for infotainment systems
- Camera systems
- Battery management system
- I/O connections for antenna, TV, radio, etc...
- Car computing
- Dashboard applications

- Navigation displays
- Connectivity module, e.g. USB hub
- Electronic control units
- Radar/Lidar System
- Gear knob

INTERNAL CONNECTORS – BOARD-TO-CABLE
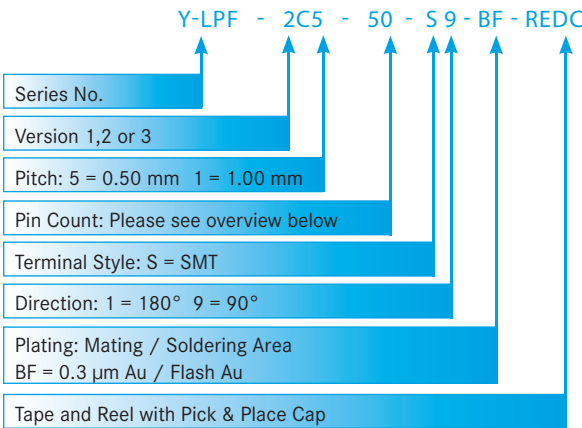
Y-LPF SERIES

Y-LOCK
PULLFORCE

The Y-Lock connector family is combining a space saving and process securing design with smart and reliable technology. The connector system is designed for applications with tough requirements. Now available in three different versions, Y-Lock is able to fulfill a large spectrum of tasks in regard to mechanical, climatic and electrical specifications.

Y-Lockコネクタシリーズは、スマートな形状と製造プロセスを考慮した設計であり、機能性と信頼性の高い技術を融合しています。

Y-Lockコネクタは、厳しい環境でも用いることができるような設計をしています。現在は三つのバージョンで利用可能です。Y-Lockは機械的、気候的、および電気的仕様に関して幅広く対応しています。

SPECIAL FEATURES

- Non-ZIF Board-to-Cable system
- FFC has just to be pushed in (one push lock) and can be pulled out (pullforce) without any further action
- Quick and easy assembly
- Poka-Yoke system
- Pitches: 0.5 and 1.0 mm
- 90° and 180° versions
- Various pin counts available
- Automatic assembly of FFC is possible
- RoHS2011/65/EU

Y-LPF – 2C5 – 50 – S 9 - BF - REDC

Series No.	
Version 1,2 or 3	
Pitch: 5 = 0.50 mm 1 = 1.00 mm	
Pin Count: Please see overview below	
Terminal Style: S = SMT	
Direction: 1 = 180° 9 = 90°	
Plating: Mating / Soldering Area BF = 0.3 µm Au / Flash Au	
Tape and Reel with Pick & Place Cap	

Y-LOCK
PULLFORCE

	Y-LOCK VERSION 1	Y-LOCK VERSION 2	Y-LOCK VERSION 3
Explanation	Locking function between the supporting tape on the FFC and the connector. Small hooks on the inner housing of the connector insulator ensure the locking function between the FFC and connector. FFC嵌合部とコネクタ間のロック機能。インシュレーター内部にある小さなフックでFFCとコネクタとのロック機能を保持します。	Additional stiffener is assembled mechanically on the FFC. Locking function between stiffener and connector. Poka-Yoke system prevents the FFC from being inserted in the wrong direction. The use of the stiffener is guiding the FFC during insertion. FFC端子部に補強板追加。補強板とコネクタ間にロック機能があり、誤嵌合防止対策も対応。	Same as version 2 but with double locking function based on frontal and lateral hooks. バージョン2と同様で、縦方向と横方向の二重ロック機能を装備。
Version & Pin Count	1 mm pitch in 90° and 180° with 12, 14,16,18, 20, 22, 24, 26, 28, 30 pins 0.5 mm pitch in 90° and 180° with 30 pins	0.5 mm Pitch, 180°with 18 or 50 pins	1 mm pitch, 90° with 20 pins or 2 mm pitch, 90° with 10 pins

Y-FFC

FLEXIBLE FLAT CABLES – MADE IN GERMANY

Y-FFC
FLAT CABLE

In order to complete the product family of different FFC connectors, Yamaichi Electronics offers FFC from its own production line – Made in Germany.
The FFC are produced with latest state of the art production facilities and are fulfilling the requirements of Automotive standards.

様々な産業に対応するため、山一電機は独自の生産ラインでFFCを提供しています。

FFCは最新の生産設備で製造され、車載規格の要求を満たしています。

Customised* pin Count, pitch, length, mating shape and foldings are available.

カスタム例＊ピン数、ピッチ、長さ、接続部分の形、折り曲げ等　可能

**MADE
IN
GERMANY**

* MOQ may occur depending on the version

INTERNAL CONNECTORS – BOARD-TO-CABLE

FFC AND FPC

Our different ZIF/Non-ZIF connectors are able to be used with standard FFC, High-speed FFC (Flexible Flat Cable) or YFLEX (high-speed FPC = Flexible Printed Circuit). The usage of the different cables is depending on the transfer rate.

Standard FFC can transfer up to 480 Mbps, high-speed FFC's can transfer up to 3 Gbps and YFLEX is able to transfer up to 20 Gbps.

当社のZIFまたはNon-ZIFコネクタは標準FFC、高速FFC、YFLEXで使用可能。当社のZIFまたはNon-ZIFコネクタは標準FFC、高速FFC、YFLEXで使用可能。これらのケーブルの使い方は伝送速度に依存します。伝送速度：標準FFC　最大480Mbps　、高速FFC　3Gbps　、YFLEX ® 　最大20Gbps

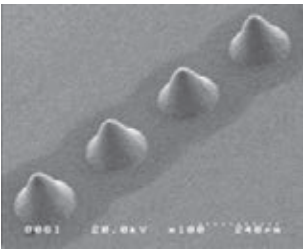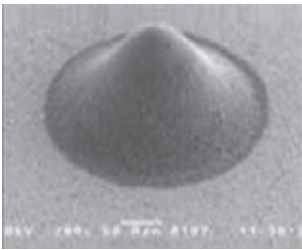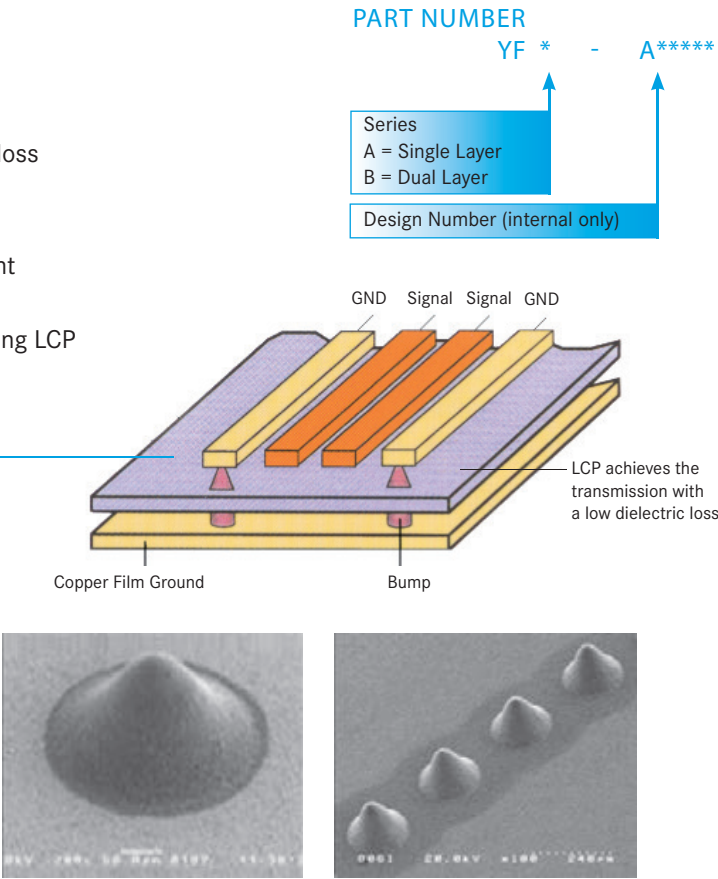| Connector Type	FFC/YFlex to be used with the different connector types		
	Standard FFC	High-speed FFC	YFLEX
Y-Lock Series	✓		
HF507-**-**-			✓
HF601-**-02/12	✓	✓	
HF601-**-03		✓	✓
HF509-10-03			✓
HF513-**-01/11		✓	✓

YFLEX® *HIGH SPEED*

FEATURES
- Able to transmit high-speed up to 20 Gbps with low loss
- Effective to use at harshest temperature, humidity and EMI condition
- Customised depending on the layout and requirement
- Stable differential impedance of 100 Ohm (+/- 10%)
- Different structure compared to standard FPC by using LCP insulation and silver bumps for interconnection

STRUCTURE TO ACHIEVE HIGH-SPEED TRANSMISSION

GND Signal Signal GND

LCP achieves the transmission with a low dielectric loss

Copper Film Ground   Bump

PART NUMBER

YF * - A*****

Series
A = Single Layer
B = Dual Layer

Design Number (internal only)
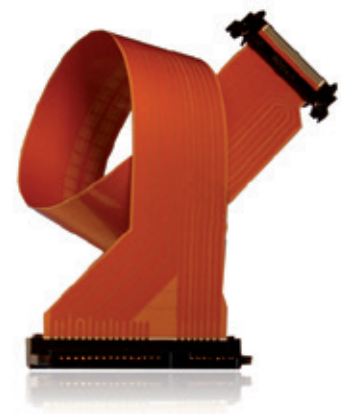
GND and copper film ground are connected with silver bumps which also protect from EMI

# INTERNAL CONNECTORS – BOARD-TO-CABLE   *HIGH SPEED*

HF connectors family is combining a space saving and process securing design with smart and reliable technology. Yamaichi Electronics offers a range of standard ZIF and non-ZIF connectors which are fulfilling special requirements, e.g. for high speed transmission. All connectors conform to RoH2011/65/EU

HFネクタシリーズは、スマートな形状と製造プロセスを考慮した設計であり、機能性と信頼性の高い技術を融合しています。
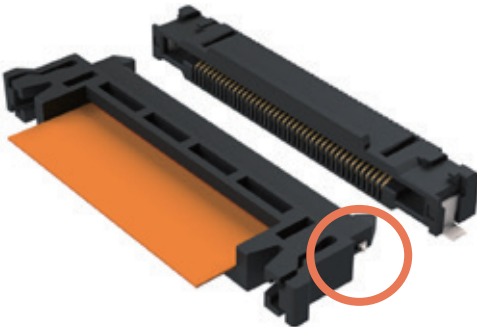当社は特別な要求を満たしている標準ZIF及びnon-ZIFコネクタを提供しています。

HF507 SERIES

The HF507 series is a very smart connector family
It combines very small design with highly sophisticated technical features
HF507シリーズはスタイリッシュなコネクタです。
非常に小さなデザインであり、高度に洗練された技術を兼ね備えています。

HF507 - ** - **

Series No.

No. of Contacts: 41 and 51

5 = 90° without Shielding
6 = 90° with Shielding
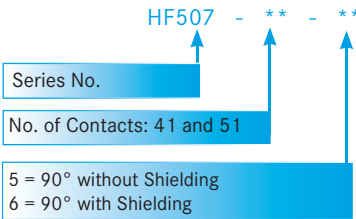
FEATURES
- Non-ZIF Board-to-Cable system
- FFC/FPC has just to be pushed in one push lock and can be pulled out (pullforce) without any further action
- Easy operation by side-locking mechanism prevents cable angular insertion and guarantees secure locking
- 90° and 180° versions
- Various pin counts available
- Applicable wire AWG30/36 Standard
- Standard crimp tool can be used
- Suitabke for high speed signal transmission such as LVDS,HDMI and S-ATA
- Differential impedance 100Ω matcing design

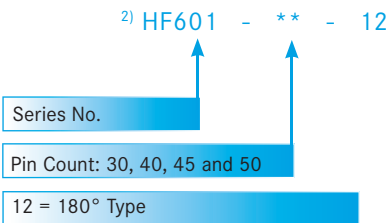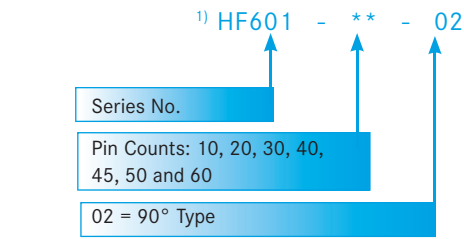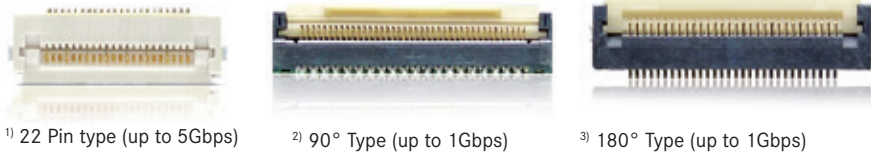Enabling mating with perfect lock.
確実なロックにより嵌合を実現

HF601 SERIES

The HF601ZIF series is a very smart connector family. It combines very small design with highly sophisticated technical features. The standard version is able to transmit up to 1Gbps, the high speed version up to 5Gbps. For an improved locking function the connector can be used with an FFC equipped with ears.

HF601 ZIFシリーズはスタイリッシュなコネクタです。
非常に小さなデザインであり、高度に洗練された技術を兼ね備えています。
標準仕様は最大1Gbps、高速仕様は最大5Gbps伝送が可能です。

FEATURES

- High speed function 1Gbps
- Pitch: 0.5mm
- Special types can transmit up to 5Gbps
- FFC with or without ears for additional locking
- Various pin counts in 90° and 180°

1) HF601 - ** - 02

| Series No. |
| Pin Counts: 10, 20, 30, 40, 45, 50 and 60 |
| 02 = 90° Type |

1) 22 Pin type (up to 5Gbps)   2) 90° Type (up to 1Gbps)   3) 180° Type (up to 1Gbps)

2) HF601 - ** - 12

| Series No. |
| Pin Count: 30, 40, 45 and 50 |
| 12 = 180° Type |

HF509 SERIES

This connector series is notable for its special space saving design with a height of only 2mm. The non-ZIF connector is providing a special side locking function.

このコネクタは嵌合長がわずか2mmの省スペースな設計。
non-ZIFコネクタは独自のサイドロック機能を提供します。

FEATURES

- Up to 5Gbps
- Pitch: 0.5mm
- Non-ZIF connector with side locking function
- 10 pins, 90°
- To be used with YFLEX cable and adapter
- Shielded version

HF513 SERIES

HF513 series is a one-piece type with a cable lock that is compatible with high temperatures and has high-speed transmission characteristics, and is capable of automatic assembly and has excellent operability.
In addition, this connector can use for harsh environments like automotive.

HF513シリーズは高温対応で高速伝送特性を有しており、自動組み立てが可能な操作性に優れたケーブルロック付１ピースタイプです。また、過酷な車載環境の対応が可能です。

HF513 - ** - 0*

| Series No. |
| Pin Counts: 30, 40 and 50 |
| 0 = No Additional GND Contact for Shielding |
| 1 = Additional GND Contact for Shielding |

FEATURES

- Up to 40Gbps data transfer rate
- 56G PAM4 transmission is also possible used with YFLEX cable
- 30, 40 and 50 pins at 90° available, further versions on request
- Pitch: 0.5mm
- Suitable for high temperature environment (125℃)
- Direct insertion type
- Invitation design for automatic insertion
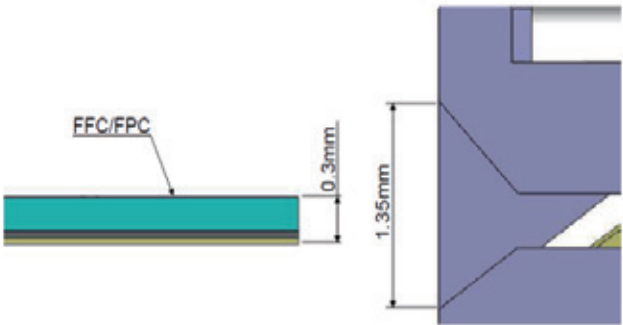- Push-in locking
- With and without additional shielding pins
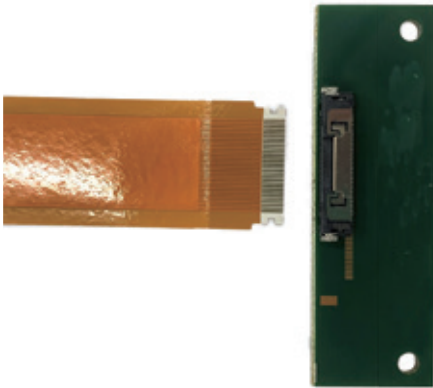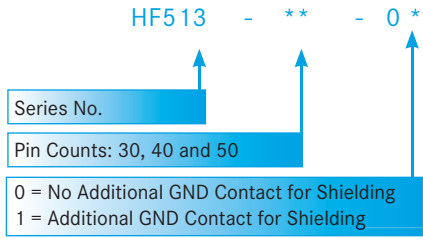
HOW TO REMOVE FPC / FFC

①Press the sheet metal in the center of the connector to unlock

②Pull out the FPC / FFC horizontally while unlocked

GUIDING DESIGN TO INSERT CORRECTLY

FFC/FPC   0.3mm   1.35mm

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

CAR COMPUTING CONNECTOR SYSTEM *HIGH SPEED*

Y-CCC SERIES

Yamaichi Electronics is creating the future for the connectivity of car computing systems with its innovative Y-CCC. This backplane connector system fulfills the high requirements of data, signal and power transmission combined with robustness and functionality. Contact us for more details about the Y-CCC system.

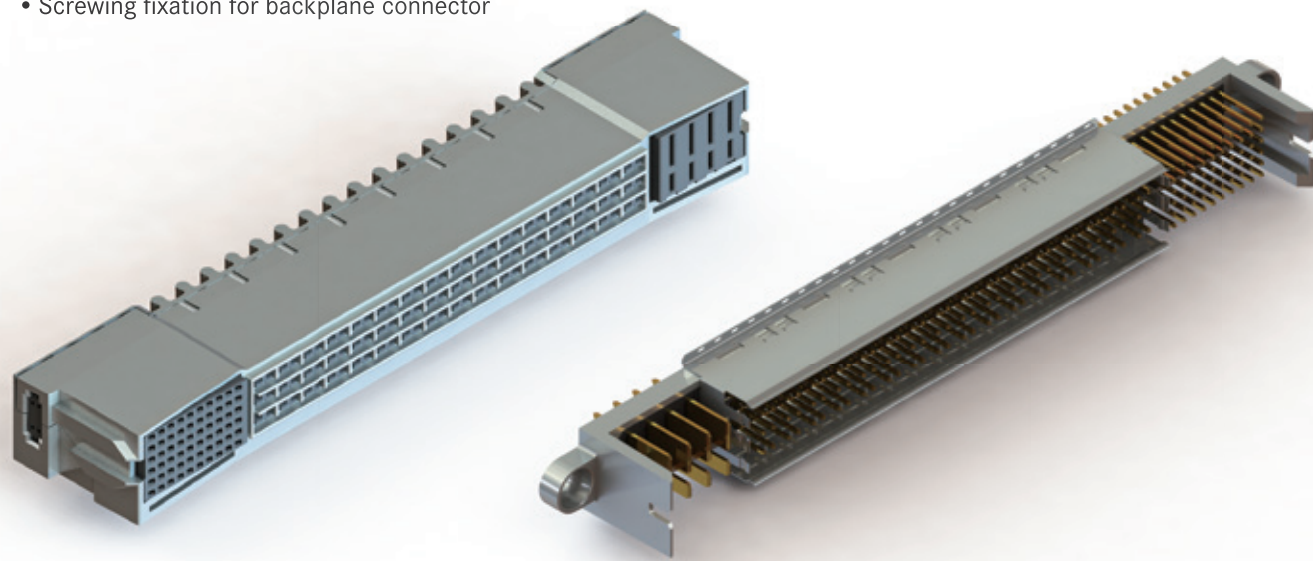当社は、新製品(Y-CCC)で車載コンピューティングシステム内のコネクタの将来を創造しています。

本コネクタシステムは機能性と頑丈性を組み合わせたデータ、信号、電力伝送の高い要求を満たします。

Y-CCCシステムについての詳細はお問い合わせください。

FEATURES
- 56 Single ended contacts
- 48 Differential pairs for high-speed transmission up to PCIe 4.0
- 8 Power pins up to 20 A
- THR soldering version
- Screwing fixation for backplane connector
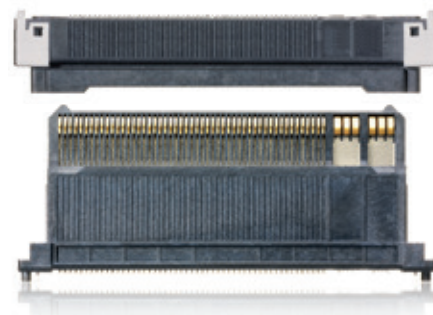
FLOATING BOARD TO BOARD HIGH-SPEED CONNECTOR

HF311 SERIES   *HIGH SPEED*

This connector system is the perfect solution to connect two boards. The floating mechanism enables smooth functioning also during shock and vibrations.

本製品は2枚の基板間接続に最適な製品です。フローティング機能のため、衝撃や振動時でも滑らかに機能します。

FEATURES
- Floating function between 0.5 and 1 mm in X, Y, Z direction
- High-speed transmission rate up to 5 Gbps
- Stacking height up to 22 mm
- Different pin counts and pitch available on request
- Power pins available on request
- First-Mate/Last-Break for ESD protection
- Poka-Yoke mating system
- RoHS2011/65/EU

INTERNAL CONNECTORS – BOARD-TO-BOARD

BOARD EDGE CONNECTOR SERIES

The BEC series is available in two different versions: standard type and high-speed version with the capability to transmit up to 5 Gbps and to support signals like USB3.0, HDMI, PCIe2.0 and Sata.

BEC シリーズは標準/高速伝送タイプの2種類をご用意しております。

最大10Gbpsまで対応可能です。(伝送規格: USB3.0, HDMI, PCIe2.0 ,Sata等)

FEATURES
- Connector ensures reliable contact in applications with vibrations due to the contact shape and form of insulator
- Improved mechanical stability due to enlarged SMT tabs
- Additional fixation of the module card in the connector ensures stable positioning over lifetime
- Improved EMI protection with additional ground connection
- Automatic assembly of module card is possible
- Mating area compatible with QSEVEN and MXM 1.0 standard cards
- RoHS2011/65/EU

STANDARD BEC WITH 230 PINS
BEC-0.5-230-S9-*F-R-EDC
- Capable for signals such as USB2.0, PCIe1.3

HIGH-SPEED BEC WITH 230 PINS
BECHS-0.5-230-S9-*F-R-EDC
- Capable for signals such as USB3.0, HDMI, PCIe2.0, Sata

HIGH SPEED

HIGH-SPEED BEC WITH 314 PINS
CN113-314-2201-VE
- MXM3.1 / SMARC2.0
- High sped transmission 10 Gbps
- Connector ensures reliable contact with vibrations due to the nut and screwing structure with latch.

POWER CONNECTOR
BECPOW-1.5-10-S9-*F-R-EDC

Optionally the power connector can be used together with the BEC/HS BEC. It supports the system with 10 pins. Each pin can transfer 1.5 A. Another function is the fixing support of the module during mounting. The module is held down by a spring in the middle of the connector. This enables an easier module fixation by screws on the flanges.

本製品はBEC/HS BECと共にお使いいただけます。10pin仕様であり、1.5Aまで伝送可能。

別の機能として、実装時に製品の固定をサポートします。中央にあるバネにより製品が保持されており、フランジのネジで製品を容易に固定出来ます。

FEATURES
- Transferring power via 10 x 1.5 A
- Supporting assembly of module by additional spring
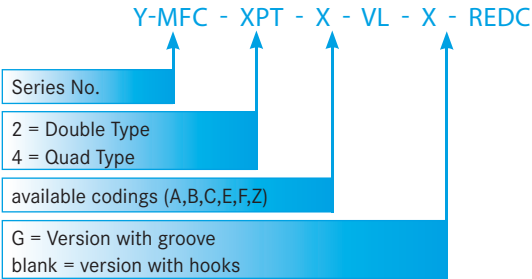- Mating height 5 mm
- RoHS2011/65/EU
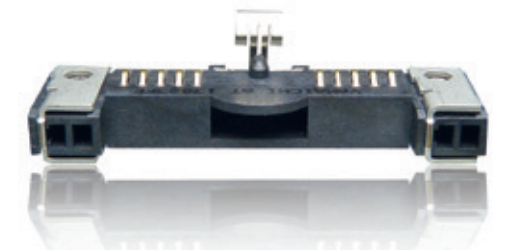
For all Versions: Plating Options (F=AU Flash Plating, B =15 µinch AU Plating, A =30 µinch AU plating)

MINI-FAKRA CONNECTORS - Y-MFC

Coding	Part Name		Color
A	Y-MFC-4PT-A-VL-REDC		Black
B	Y-MFC-4PT-B-VL-REDC		White
C	Y-MFC-4PT-C-VL-REDC		Blue
E	Y-MFC-4PT-E-VL-REDC		Green
F	Y-MFC-4PT-F-VL-REDC		Brown

FEATURES

- Developed and tested for automotive applications
- High-speed performance
- Space- and weight-saving design
- Two different designs of the insulator available - thus perfect adaptation in the housing is possible
- Different colour and mechanical codings available
- The coding position can be supplied in standard 90° / 180° and 270° versions on customer request
- Quad and Double version available

Y-MFC - XPT - X - VL - X - REDC

Series No.

2 = Double Type
4 = Quad Type

available codings (A,B,C,E,F,Z)

G = Version with groove
blank = version with hooks

HIGH-SPEED DATA ETHERNET - Y-HDE

Coding	Part Name		Color
A	HF116P-1001-0A-VE		Black
B	HF116P-1001-0B-VE		White
C	HF116P-1001-0C-VE		Purple
E	HF116P-1001-0E-VE		Green
F	HF116P-1001-0F-VE		Brown
Z	HF116P-1001-0Z-VE		Turquoise

FEATURES

- 7 different codings of the single-type version
- Data transmission up to 20 Gbps
- Weight and space saving design
- Tested and produced for automotive applications
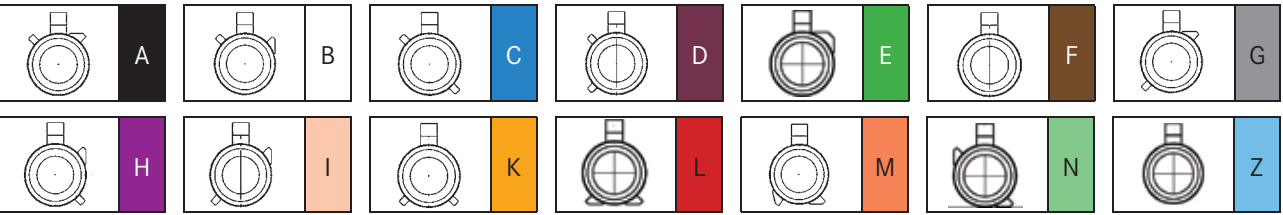- Single and Quad version available

HF116P - X001 - X X

Series No.

1 = Single Type
4 = Quad Type

0 = General Type
1 = Nose down

available codings (14 colour type)
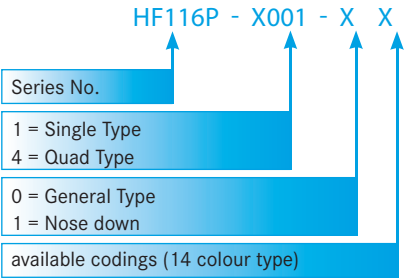
FAKRA CONNECTORS

Version	Part Name	
PCB side, male connector, coding nose up	HF106P-0001-0X-VE	
PCB side, male connector, coding nose down	HF111P-0001-1X-VE	
PCB side, male connector, stacked version	HF110P-0001-XX-VE	

COLOUR AND HOUSING CODING

X = available codings

A B C D E F G

H I K L M N Z

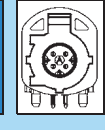## HSD CONNECTORS

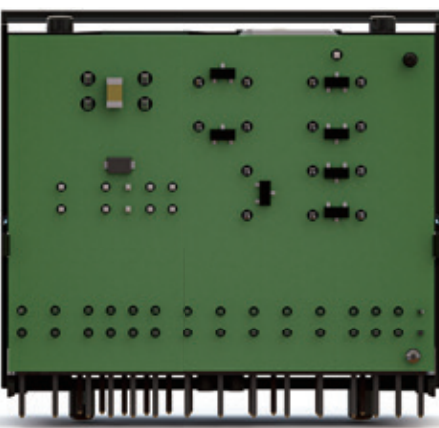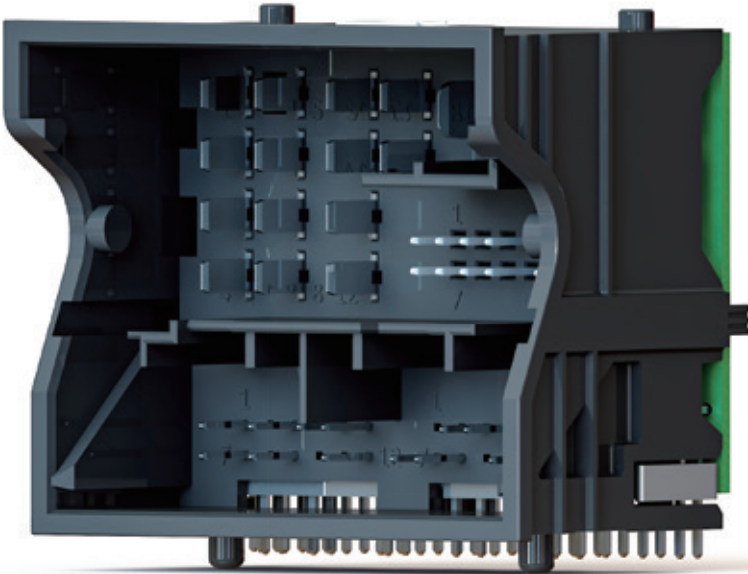| Version	Part Name		Colour and housing coding
PCB side, male connector, with 4 power pins	HF112P-0001-0X-VE		A C
PCB side, male connector, with 2 power pins	HF108P-0001-0D-VE		D
PCB side, male connector, w/o EMI ring	HF109P-0001-0X-VE		B E F
PCB side, male connector, with EMI ring	HF107P-0001-0X-VE		B C E

X = available codings

Y-QUAD

Y-Quad is the connector series based on Quadlock connector systems. The improved design is ensuring a space saving and easy to assemble product. Further versions like a reflow solderable type, reduced number of pins, version with/without shielding or with/without PCB are available on request.

Y-QuadとはQuadlockコネクタシステムをベースとしたコネクタシリーズである。

改良された設計によりスマートなデザインであり、製品を容易に組み立てることが可能。

リフローはんだ付けタイプ、ピン数の削減、シールドの有無、PCBの有無といった様々なバージョンをご要望に応じて対応致します。

FEATURES

- Space saving design in regards to connector size and PCB layout
- Other pin counts are available on request
- Wave soldering or reflow soldering version (Pin & Paste)
- PCB with assembled components possible
- RoHS2011/65/EU

Y-QLS - 52 - THR9 - LL - P - EDC

Series No.	
Pin count	
Soldering version R=Pin&Paste, T=Wave	
Direction 1=180°, 9=90°	
Optional PCB, P=with PCB, 0=w/o PCB	
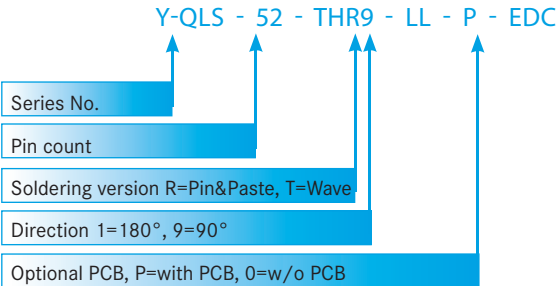
Yamachi is offering the backside PCB with components assembled on it, like capacitors, LED or resistors.

CAMERA MODULE CONNECTOR
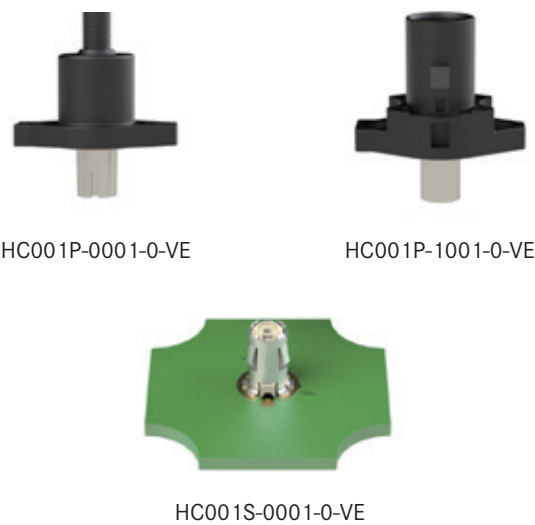
Y-CMC
CAMERA MODULE

COAXIAL TYPE
HC001

HC001 x - x 00 1 - 0 -VE

Series No.

P=Plug
S=Socket

0=pig tail
1=direct

HC001P-0001-0-VE

HC001P-1001-0-VE

HC001S-0001-0-VE

FEATURES

- Plug side connector can be selected according to the application.
- Market smallest size(∅ 3.5 mm) on both board and plug side
- Absorption of misalignment of mating part (mounting tolerance in X, Y, θ direction)
- High-speed transmission (Compatible with 4 GHz)
- Waterproof (IP6K9K)
- Easy procedure (only by screwing)
- Wire tension min. 100 N

DIFFERENTIAL TYPE
HC004

HC004 x - x 00 * - 0 - VE

Series No.

P=Plug
S=Socket

0=Straight   pig tail
5=Right angle pig tail

HC004P-0004-0-VE

FEATURES

- Board side connector can be selected according to the application
- Market smallest size (W4.75×D3.0 mm) on both board and plug side
- Absorption of misalignment of mating part (mounting tolerance in X, Y, direction)
- High-speed transmission (Compatible with 4.8 Gbps)
- Waterproof (IP6K9K)
- Easy procedure (only by screwing)
- Wire tension min. 100 N

HC004S-0004-0-VE

HC004S-5005-0-VE
UNDER DEVELPOMENT

CABLE ASSEMBLIES

Yamaichi Electronics is also providing a wide range of standard BTB and BTC connectors including the fitting cable assemblies. Furthermore we are offering standard customer interfaces like USB connectors, HDMI connectors etc..

CARD CONNECTORS

Based on customer requirements Yamaichi Electronics offers suitable card connectors for almost all card types, e.g. for Micro-SIM and SIM or MicroSD and SD. The design of the contacts ensures reliability under conditions of vibration and shock. All card connectors conform to RoHS2011/65/EU. This page shows a selection of card connectors out of our large portfolio.

当社は全てのカード仕様(Micro-SIM, SIM, MicroSD ,SD)のカードコネクタを提供しています。
振動や衝撃の条件下での信頼性を保証します。すべてのカードコネクタはRoHS2011/65/EUに準拠しています。
このページは、当社の大規模な製品ラインアップから選択できます。

SD - FPS009-2903-0-VE

This SD card connector has a closed cover, card fly-out brakes thus making it the perfect solution for automotive applications.

FEATURES

- SD connector, especially for harsh environment
- Connector for both card types SD and MMC
- Card detector
- Soft lock with Push/Push mechanism
- Write protection switch
- EMI prevention with four grounding terminals
- Double spring coil

SD - FPS009-4200-0
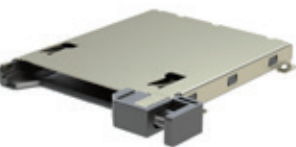
This SD card connector has a special one-push lock function. This means the locking system is working automatically after the insertion of the card. The design allows the highest reliability also under conditions of shock and vibrations.

FEATURES

- Automatic locking function after insertion of SD card
- 2-point contact on all contact terminals to ensure dielectric discontinuity prevention which may be caused by vibration and impact
- Zero sliding contact @100 G shock (X, Y, Z direction)
- Metal shell cover with 4 GNDs (solder tubes) to ensure EMI/ESD prevention performance

MICROSD - PJS008-4100-0-VE
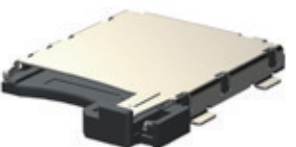
This MicroSD card connector has a special one-push lock function. This means the locking system is working automatically after the insertion of the card. The design allows the highest reliability also under conditions of shock and vibrations.

FEATURES

- 2-point contact on all contacts
- Inner spring coil ensures card position also under conditions of shock and vibrations
- Metal shell for EMI protection

MICROSD - PJS008-2005-0-VE

This MicroSD card connector has two differnt length of springs. This means resonance point by vibration and shock is changed and increase the contact reliability .

FEATURES

- With card fly out brake
- With card detection switch
- 2-point contacts
- Card mis insertion prevention design

SIM- FMS006-2340-0-VE

This card connector has a push-lock function. The system is locking the card automatically after insertion. The design allows the highest reliability also under conditions of shock and vibrations.

FEATURES

- With switch
- With hard locking function

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MODULE TEST ADAPTER

With sophisticated and smart designs, Yamaichi Electronics provides adapter systems that perfectly meet the challenges of maintaining high-speed signal integrity by means of superior and reliable contact design.

Our products include vertical and horizontal test adapters for both burn-in and functional testing. Tailor-made solutions are also available.
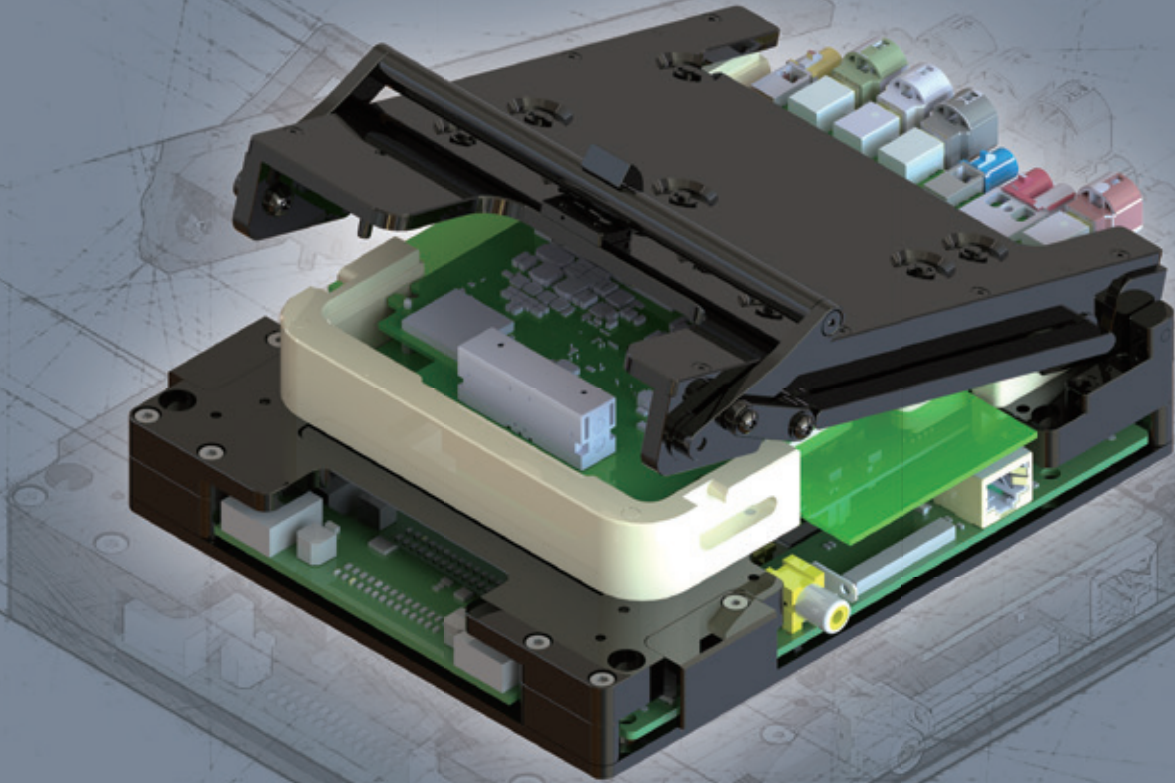
ADVANTAGES
• Reliability and endurance
• Very high electrical performance
• Flexibility in module size
• Volume test ready
• In-line volume test

Proven and reliable probe pin technology combined with high-speed components provides a test system with very high electrical transmission properties. The combination of single module tests with one test system gives you the possibility to decrease the test time and costs per module.

AUTOMOTIVE SOLUTIONS

Version February 2022

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