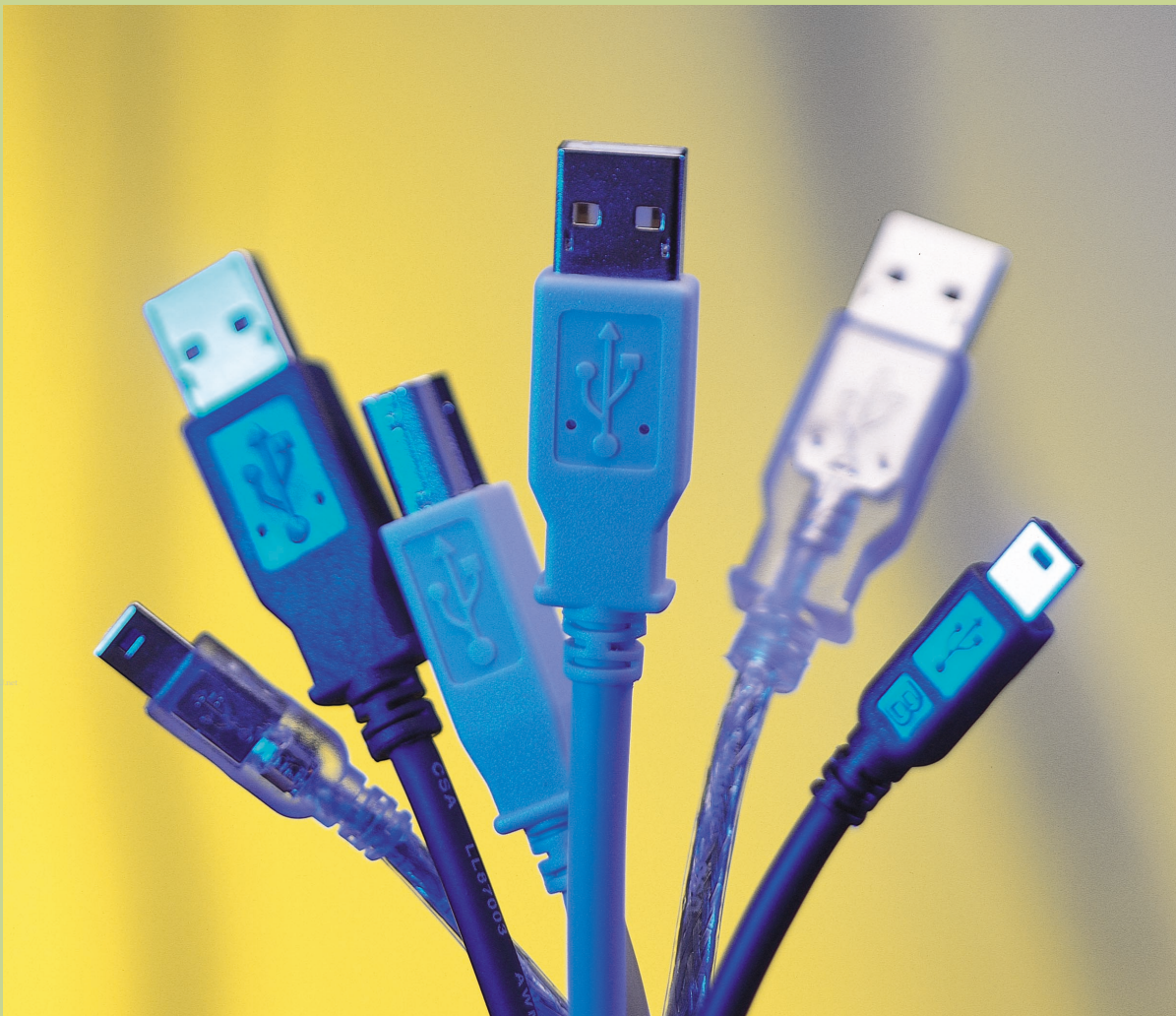


USB
Connectors

QZF
series



Honda Connectors

**Conformable with
Standard Connectors**



QZF series

USB Connectors

QZF

Outline

The QZF series of PC interface 4-contact connectors meet USB (Universal Serial Bus) or USB Ver. 2.0 Specification Revision 2.0 standards, and are designed to transfer signals to and from keyboards, mouse or pointing devices, modems, printers, etc.

Features

The contacts are plated with gold to withstand many insertions and extractions, providing high reliability.

www.DatadirectU.net

Electrical Characteristics

USB Standard	
Rated voltage	30V AC (r.m.s.)
Rated current	1A
Insulation resistance	Over 1,000 megohms (at 500V DC)
Withstanding voltage	750V AC (r.m.s.)
Contact resistance	30 milliohms or less

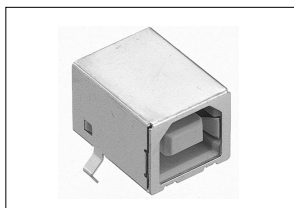
USB Standard, version 2.0		
Type	A and B series	Mini B series
Rated voltage	30V AC (r.m.s.)	
Rated current	1A DC	
Temperature range	0 to 50°C	
Insulation resistance	Over 1,000 megohms	Over 100 megohms
Withstanding voltage	500V AC	100V AC
Cycles of insertion and extraction	1,500	5,000

Before starting the preliminary design of PCBs to use HONDA connectors, be sure to contact us.

Product List



USB A series of 4-contact
right-angle DIP type
female connector
QZF-A4LFDP
A-6
QZF series...4



USB B series of 4-contact
right-angle DIP type
female connector
QZF-B4LFDP
A-7
QZF series...5



USB A and B series of
cable assembly
(complying with USB standard)
QZF-HAB001()-L()
A-8
QZF series...6



USB A series of cable assembly
(complying with USB standard)
QZF-HA001()-L()
A-9
QZF series...7



USB B series of cable assembly
(complying with USB standard)
QZF-HB001()-L()
A-10
QZF series...8



USB A series of 4-contact
right-angle DIP type
female connector
QZF-A4LFDG()A2()
A-11
QZF series...9



USB A series of 4-contact
right-angle SMT type
female connector
QZF-A4LFYG()A2()
A-12
QZF series...10



USB B series of 4-contact
right-angle DIP type
female connector
QZF-B4LFDG()A2()
A-13
QZF series...11



USB B series of 4-contact
right-angle SMT type
female connector
QZF-B4LFYG()A2()
A-14
QZF series...12



USB Mini B series of 5-contact
right-angle SMT type
female connector
QZF-MB5LFYG()A2()
A-15
QZF series...13



USB A and B series of
cable assembly (complying with
USB Ver. 2.0 standard)
QZF-HAB401()-L()
A-16
QZF series...14



USB A and Mini B series of
cable assembly (complying with
USB standard)
QZF-HAMB401()-L()
A-17
QZF series...15

www.Datasheet4U.net

Standardized

For PCBs

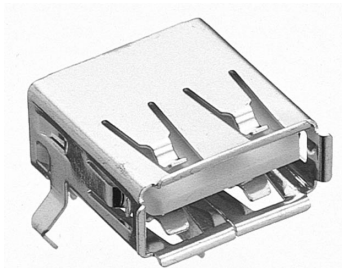
Right-angle DIP

Complying with USB standard

HONDA TSUSHIN KOGYO CO., LTD.

USB A series of 4-contact right-angle DIP type female connector

QZF-A4LFDP

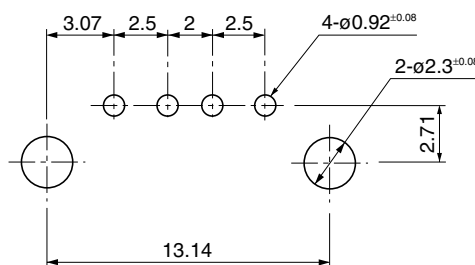
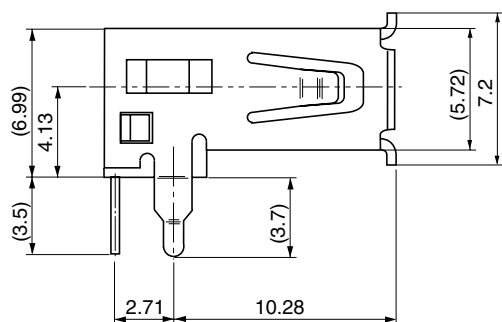
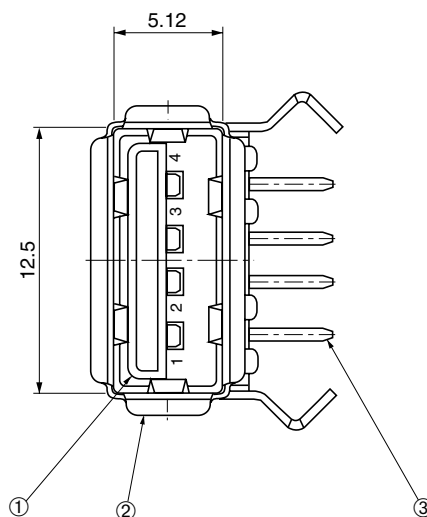
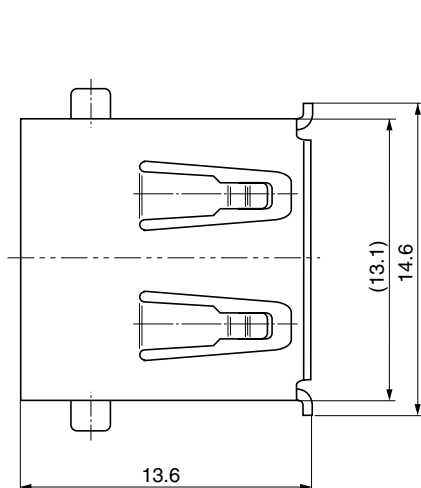


● Configuration of product Part No.

QZF- A 4 LFDP

① ② ③ ④

- ① Series name
- ② Type of connector
A: A series
- ③ No. of contacts: 4
- ④ Form of contact
LFDP: Right-angle DIP type, female (plated with palladium and gold)



PCB dimensions for reference purposes
(Board thickness: $t = 1.57 \text{ mm}$)

● Components

①	Insulator
②	Shell
③	Contacts

Mating connectors: USB A series of male connectors for cables

USB B series of 4-contact right-angle DIP type female connector QZF-B4LFDP

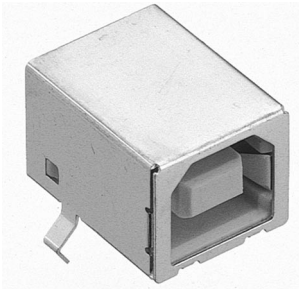
Standardized

For PCBs

Right-angle DIP

Complying with USB standard

QZF



● Configuration of product Part No.

QZF- B 4 LFDP

① ② ③ ④

① Series name

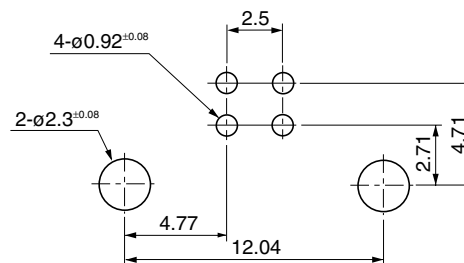
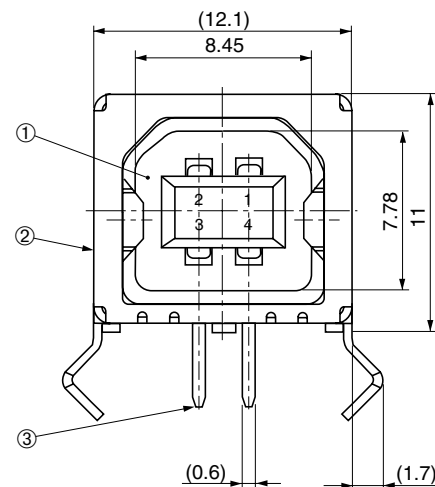
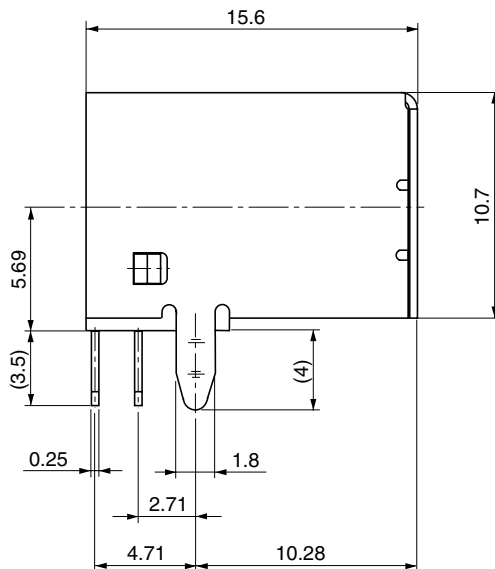
② Type of connector

B: B series

③ No. of contacts: 4

④ Form of contact

LFDP: Right-angle DIP type, female (plated with palladium and gold)



● Components

①	Insulator
②	Shell
③	Contacts

Mating connectors: USB B series of male connectors for cables

Standardized

For cables

Straight soldering type

Complying with USB standard

HONDA TSUSHIN KOGYO CO., LTD.

USB A and B series of cable assembly (complying with USB standard) QZF-HAB001()-L()()



● Configuration of product Part No.

QZF- HAB 001 ()- L() ()

① ② ③ ④ ⑤ ⑥

① Series name

② Types of connector

HAB: A and B series

③ Serial number

④ Type of cable

A: One pair of AWG28 stranded cables and two AWG20 cables, which are shielded.

B: One pair of AWG28 stranded cables and two AWG22 cables, which are shielded.

C: One pair of AWG28 stranded cables and two AWG24 cables, which are shielded.

D: One pair of AWG28 stranded cables and two AWG26 cables, which are shielded.

E: One pair of AWG28 stranded cables and two AWG28 cables, which are shielded.

F: One pair of AWG28 stranded cables and two AWG20 cables, which are not shielded.

G: One pair of AWG28 stranded cables and two AWG22 cables, which are not shielded.

H: One pair of AWG28 stranded cables and two AWG24 cables, which are not shielded.

J: One pair of AWG28 stranded cables and two AWG26 cables, which are not shielded.

K: One pair of AWG28 stranded cables and two AWG28 cables, which are not shielded.

⑤ Length of cable (cm): 100, 200, 300, 400 or 500

⑥ Color of connector and cable

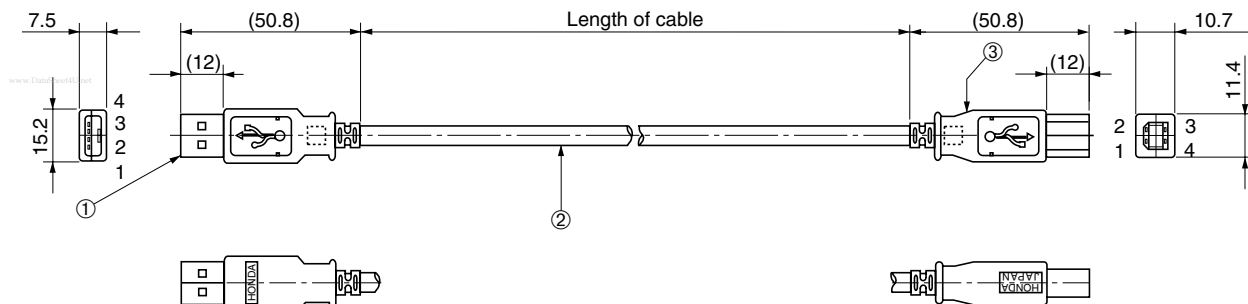
Blank: Ivory

A : Red

B : Blue

C : Yellow

D : Black



● Components

①	QZF-A series of connector
②	Cable
③	QZF-B series of connector

Mating connectors: USB A series of right-angle DIP type female connector for PCBs

USB B series of right-angle DIP type female connector for PCBs

USB A series of cable assembly
(complying with USB standard)
QZF-HA001()-L()()

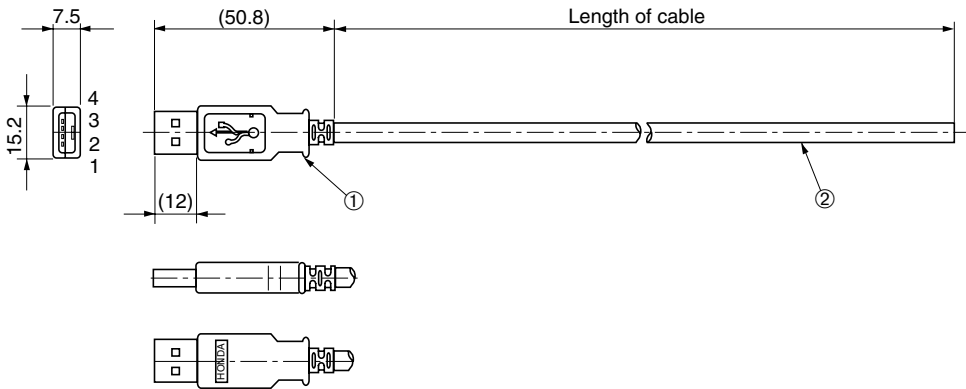
Standardized
For cables
Straight soldering type
Complying with USB standard

QZF



● Configuration of product Part No.
QZF- HA 001 ()- L() ()

- ① Series name
② Types of connector
HA: A series
③ Serial number
④ Type of cable
A: One pair of AWG28 stranded cables and two AWG20 cables, which are shielded.
B: One pair of AWG28 stranded cables and two AWG22 cables, which are shielded.
C: One pair of AWG28 stranded cables and two AWG24 cables, which are shielded.
D: One pair of AWG28 stranded cables and two AWG26 cables, which are shielded.
E: One pair of AWG28 stranded cables and two AWG28 cables, which are shielded.
F: One pair of AWG28 stranded cables and two AWG20 cables, which are not shielded.
G: One pair of AWG28 stranded cables and two AWG22 cables, which are not shielded.
H: One pair of AWG28 stranded cables and two AWG24 cables, which are not shielded.
J: One pair of AWG28 stranded cables and two AWG26 cables, which are not shielded.
K: One pair of AWG28 stranded cables and two AWG28 cables, which are not shielded.
⑤ Length of cable (cm): 100, 200, 300, 400 or 500
⑥ Color of connector and cable
Blank: Ivory
A : Red
B : Blue
C : Yellow
D : Black



● Components

①	QZF-A series of male connector
②	Cable

Mating connectors: USB A series of right-angle DIP type female connector for PCBs

Standardized

For cables

Straight soldering type

Complying with USB standard

HONDA TSUSHIN KOGYO CO., LTD.

USB B series of cable assembly (complying with USB standard) QZF-HB001()-L()()



● Configuration of product Part No.

QZF- HB 001 ()- L()()

① ② ③ ④ ⑤ ⑥

- ① Series name
- ② Types of connector
HB: B series
- ③ Serial number
- ④ Type of cable

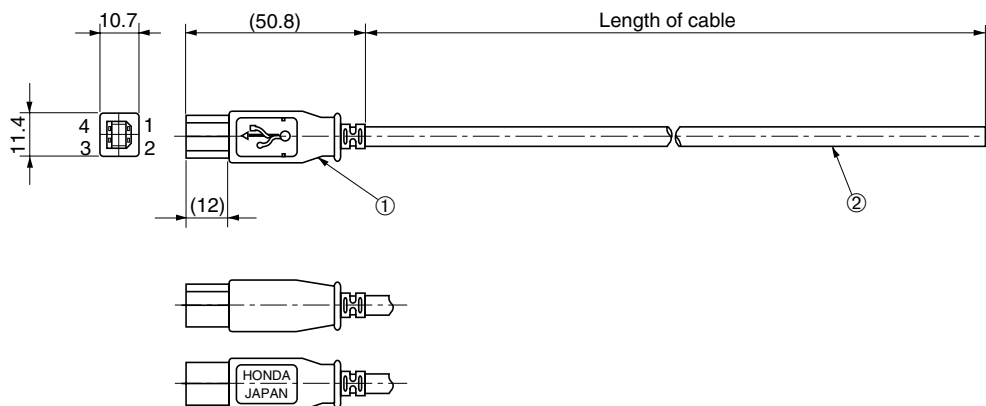
A: One pair of AWG28 stranded cables and two AWG20 cables, which are shielded.
 B: One pair of AWG28 stranded cables and two AWG22 cables, which are shielded.
 C: One pair of AWG28 stranded cables and two AWG24 cables, which are shielded.
 D: One pair of AWG28 stranded cables and two AWG26 cables, which are shielded.
 E: One pair of AWG28 stranded cables and two AWG28 cables, which are shielded.
 F: One pair of AWG28 stranded cables and two AWG20 cables, which are not shielded.
 G: One pair of AWG28 stranded cables and two AWG22 cables, which are not shielded.
 H: One pair of AWG28 stranded cables and two AWG24 cables, which are not shielded.
 J: One pair of AWG28 stranded cables and two AWG26 cables, which are not shielded.
 K: One pair of AWG28 stranded cables and two AWG28 cables, which are not shielded.

- ⑤ Length of cable (cm): 100, 200, 300, 400 or 500

- ⑥ Color of connector and cable

Blank: Ivory

A : Red
 B : Blue
 C : Yellow
 D : Black



● Components

①	QZF-B series of male connector
②	Cable

Mating connectors: USB B series of right-angle DIP type female connector for PCBs

USB A series of 4-contact right-angle DIP type female connector
QZF-A4LFDG()A2()()

Standardized

For PCBs

Right-angle DIP

Complying with USB Ver. 2.0 standard

QZØ

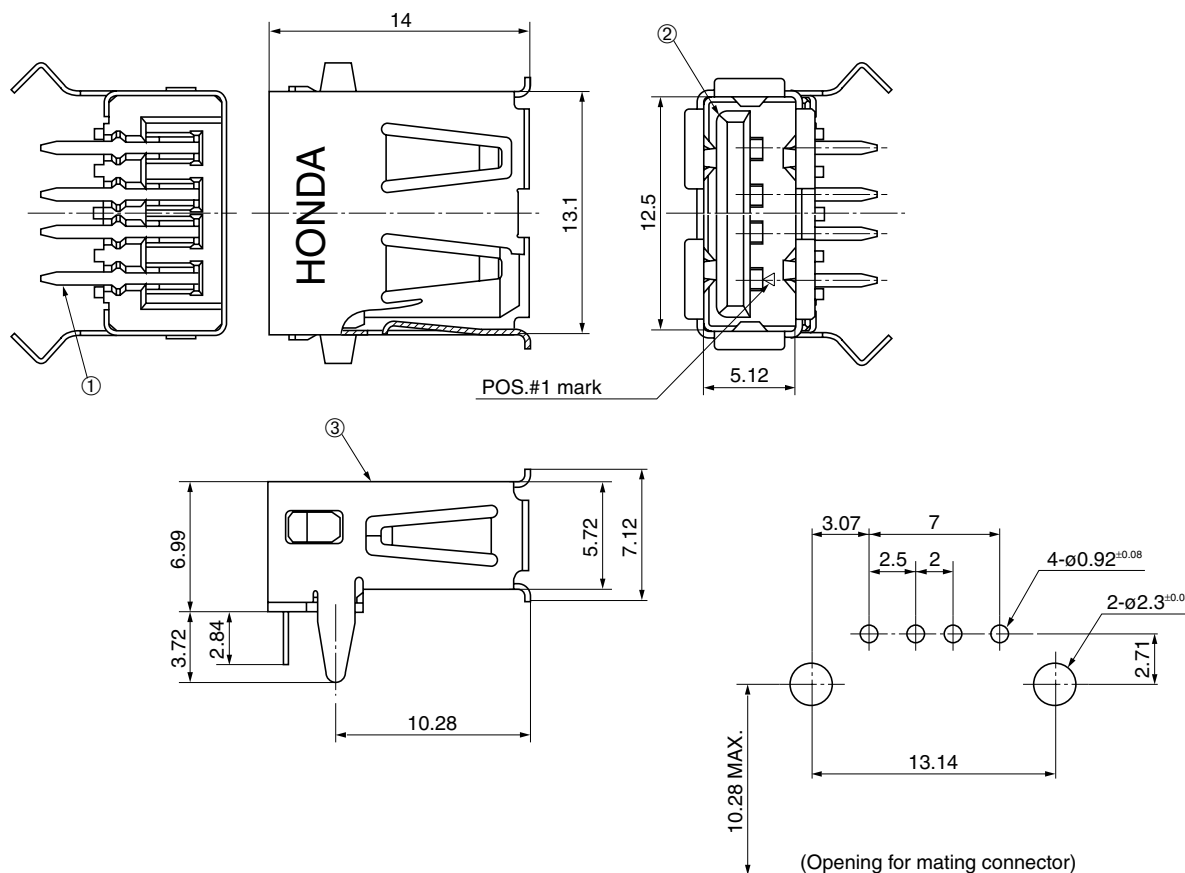


● Configuration of product Part No.

QZF- A 4 LFD G() A2 () ()

① ② ③ ④ ⑤ ⑥ ⑦

- | | |
|-----------------------------------|----------------------|
| ① Series name | ⑥ Color of insulator |
| ② Type of connector | K: White |
| A: A series | ⑦ Logo mark |
| ③ No. of contacts: 4 | #H: HONDA |
| ④ Form of contact | |
| LFD: Right-angle DIP type, female | |
| ⑤ Contact plating | |
| G7: 0.76 μm Gold plate | |



● Components

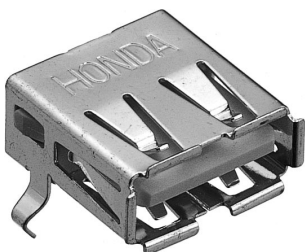
①	Contacts
②	Insulator
③	Shell

**PCB dimensions for reference purposes
(Board thickness: t = 1.57 mm)**

Mating connectors: USB A series of male connectors for cables (Complying with USB Ver. 2.0 standard)

USB A series of 4-contact right-angle SMT type female connector

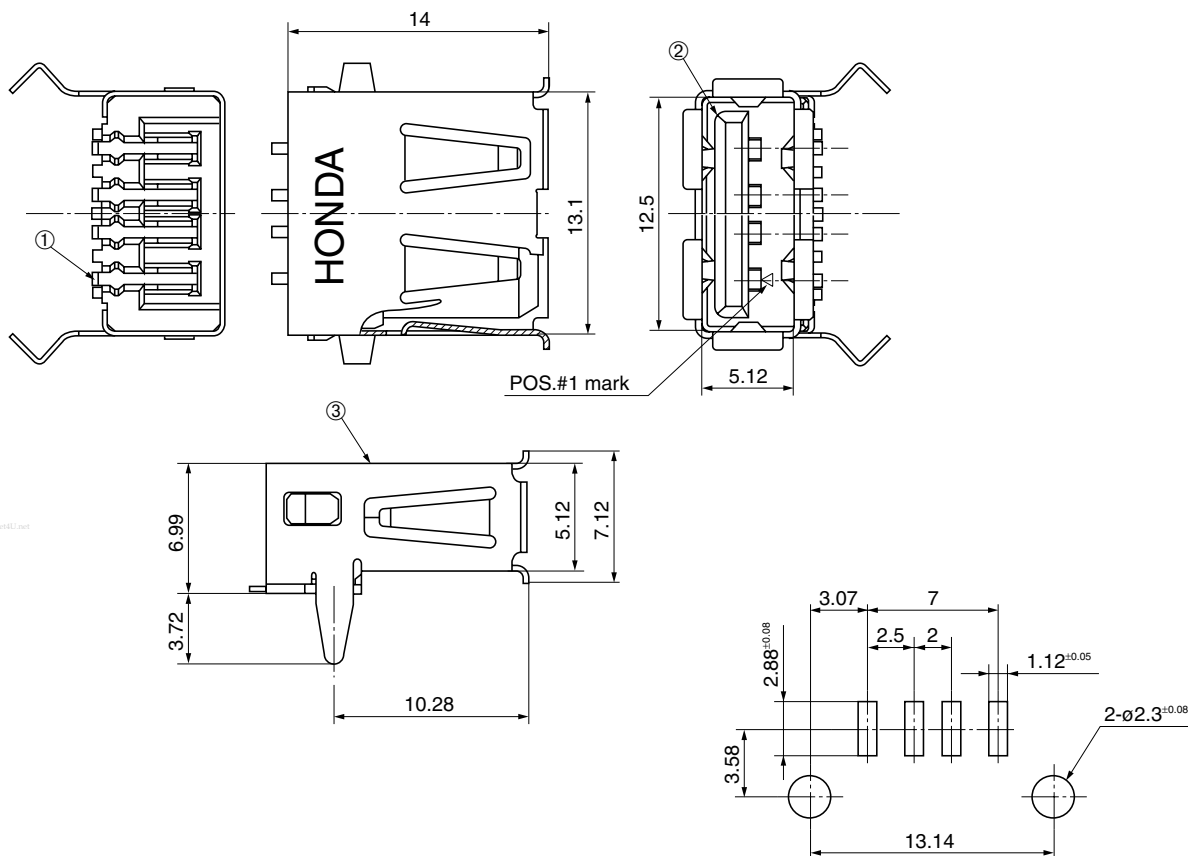
QZF-A4LFYG()A2()()



● Configuration of product Part No.

QZF- A 4 LFY G() A2 () ()

- | | | | | | | |
|---------------|---------------------|----------------------|-----------------------------------|-----------------------------|----------------------|-------------|
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
| ① Series name | ② Type of connector | ③ No. of contacts: 4 | ④ Form of contact | ⑤ Contact plating | ⑥ Color of insulator | ⑦ Logo mark |
| | A: A series | | LFY: Right-angle SMT type, female | G7: 0.76 μ m Gold plate | K: White | #H: HONDA |



● Components

①	Contacts
②	Insulator
③	Shell

PCB dimensions for reference purposes
(Board thickness: t = 1.57 mm)

Mating connectors: USB A series of male connectors for cables

USB B series of 4-contact right-angle DIP type female connector QZF-B4LFDG()A2()()

Standardized

For PCBs

Right-angle DIP

Complying with USB Ver. 2.0 standard

QZF

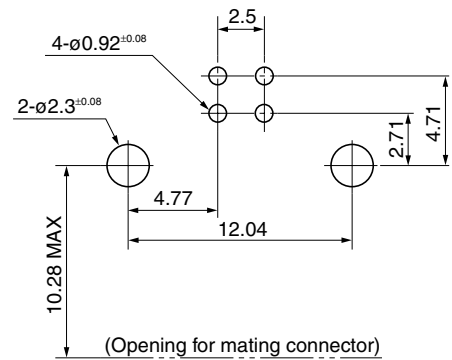
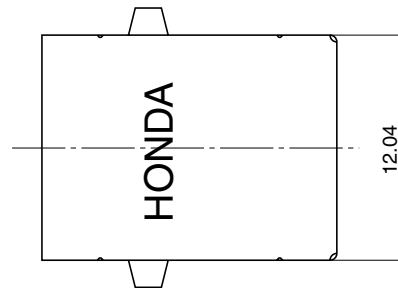


● Configuration of product Part No.

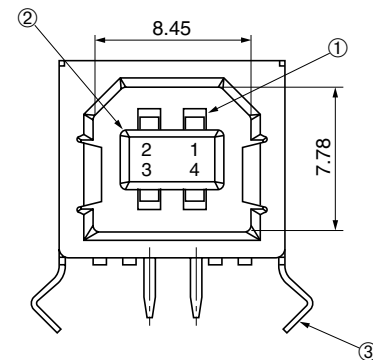
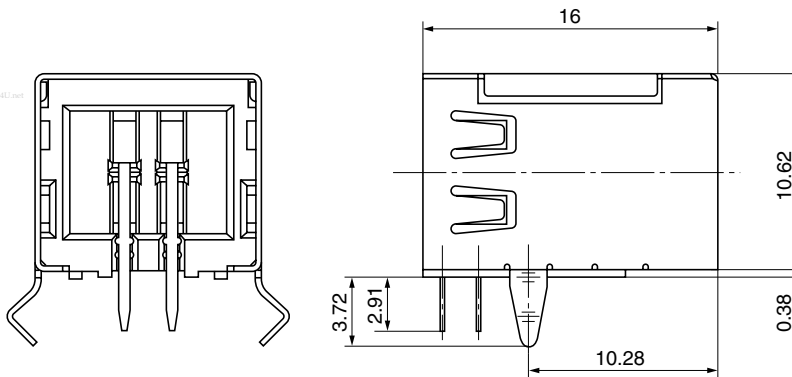
QZF- B 4 LFD G() A2 () ()

① ② ③ ④ ⑤ ⑥ ⑦

- ① Series name
- ② Type of connector
B: B series
- ③ No. of contacts: 4
- ④ Form of contact
LFD: Right-angle DIP type, female
- ⑤ Contact plating
G7: 0.76 μ m Gold plate
- ⑥ Color of insulator
K: White
- ⑦ Logo mark
#H: HONDA



PCB dimensions for reference purposes
(Board thickness: t = 1.57 mm)



● Components

①	Contacts
②	Insulator
③	Shell

Mating connectors: USB B series of male connectors for cables (Complying with USB Ver. 2.0 standard)

USB B series of 4-contact right-angle SMT type female connector

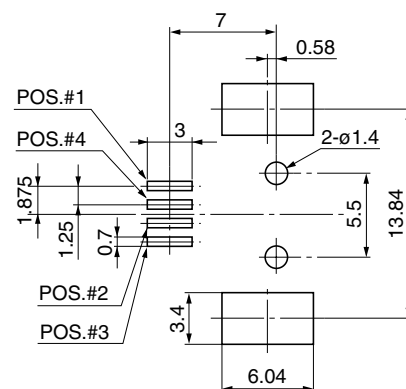
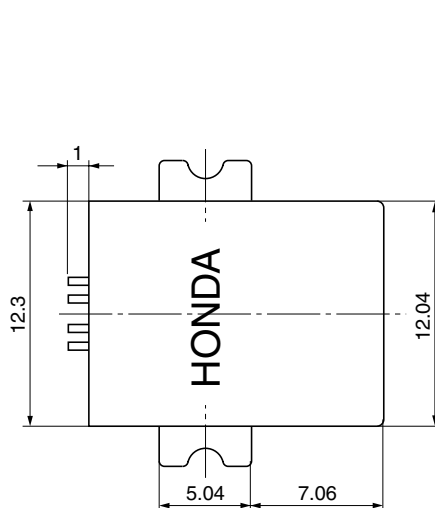
QZF-B4LFYG()A2()()



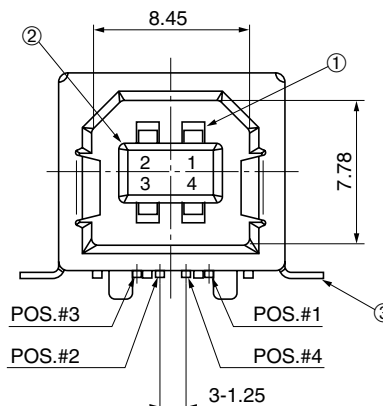
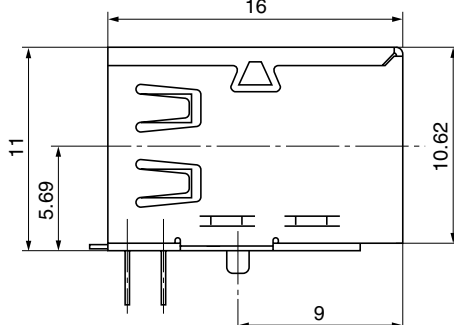
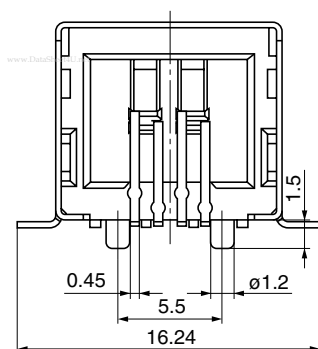
● Configuration of product Part No.

QZF- B 4 LFY G() A2 () ()

- | | | | | | | |
|---------------|---------------------|----------------------|-----------------------------------|-----------------------------|----------------------|-------------|
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
| ① Series name | ② Type of connector | ③ No. of contacts: 4 | ④ Form of contact | ⑤ Contact plating | ⑥ Color of insulator | ⑦ Logo mark |
| | B: B series | | LFY: Right-angle SMT type, female | G7: 0.76 μ m Gold plate | K: White | #H: HONDA |



PCB dimensions for reference purposes
(Board thickness: $t = 1.57$ mm)



● Components

①	Contacts
②	Insulator
③	Shell

Mating connectors: USB B series of male connectors for cables

USB Mini B series of 5-contact right-angle SMT type female connector QZF-MB5LFYG()A2()()

Standardized

For PCBs

Right-angle SMT

Complying with USB Ver. 2.0 standard

QZF

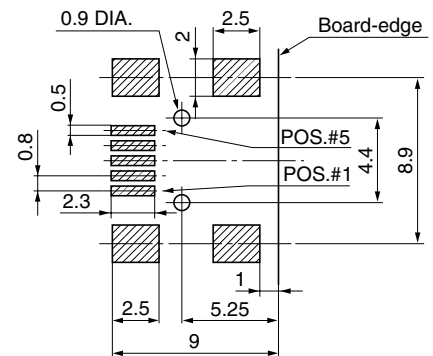
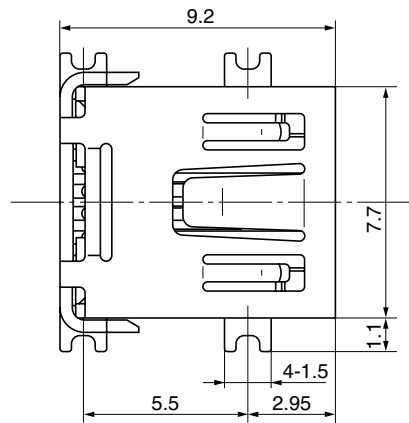


● Configuration of product Part No.

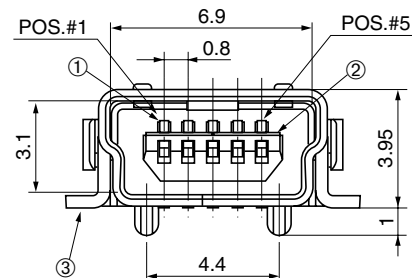
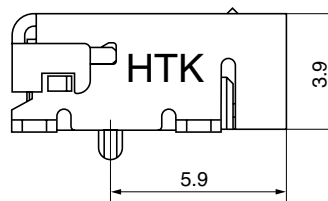
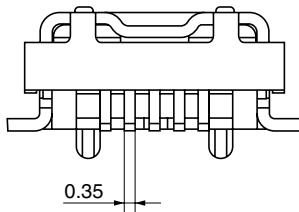
QZF- MB 5 LFY G() A2()()

① ② ③ ④ ⑤ ⑥ ⑦

- ① Series name
- ② Type of connector
MB: Mini B series
- ③ No. of contacts: 5
- ④ Form of contact
LFY: Right-angle SMT type, female
- ⑤ Contact plating
G7: 0.76 μ m Gold plate
- ⑥ Color of insulator
D: Black
- ⑦ Logo mark
#H: HONDA



PCB dimensions for reference purposes
(Board thickness: $t = 1.57$ mm)



● Components

①	Contacts
②	Insulator
③	Shell

Mating connectors: USB Mini B series of male connectors for cables (Complying with USB Ver. 2.0 standard)

Standardized

For cables

Straight soldering type

Complying with USB Ver. 2.0 standard

HONDA TSUSHIN KOGYO CO., LTD.

USB A and B series of cable assembly (complying with USB Ver. 2.0 standard) QZF-HAB401()-L()()

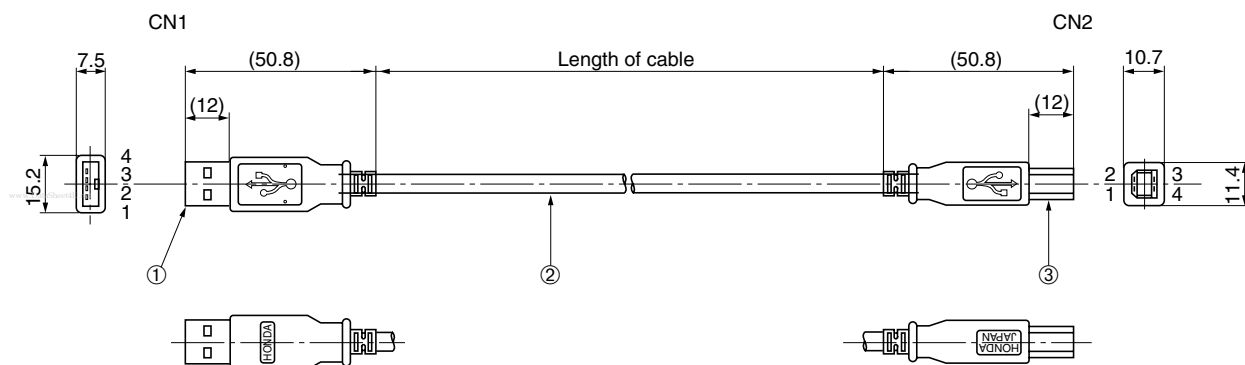


● Configuration of product Part No.

QZF- HAB 401 ()- L() ()

① ② ③ ④ ⑤

- ① Series name
- ② Type of connector
HAB: A and B series
- ③ Type of cable
C: One pair of AWG24 stranded cables and two AWG28 cables and AWG28 drain wires, which are shielded.
E: One pair of AWG28 stranded cables and two AWG28 cables and AWG28 drain wires, which are shielded.
- ④ Length of cable
Up to 500 cm in 10 cm increments (In the case of C type of cable as above)
Up to 300 cm in 10 cm increments (In the case of E type of cable as above)
- ⑤ Color of insulator
Blank: Ivory white
D : Black



● Components

①	QZF-A series of connector
②	Cable
③	QZF-B series of connector

Mating connectors: USB A series of right-angle DIP type female connector for PCBs (Complying with USB Ver. 2.0 standard)

USB A series of right-angle SMT type female connector for PCBs (Complying with USB Ver. 2.0 standard)

USB B series of right-angle DIP type female connector for PCBs (Complying with USB Ver. 2.0 standard)

USB B series of right-angle SMT type female connector for PCBs (Complying with USB Ver. 2.0 standard)

USB A and Mini B series of cable assembly (complying with USB standard) QZF-HAMB401()-L()()

Standardized

For cables

Straight soldering type

Complying with USB Ver. 2.0 standard

QZF

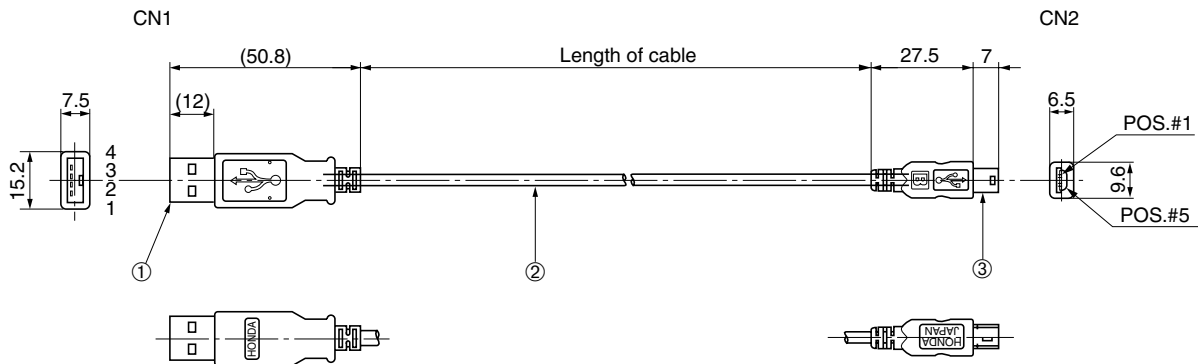


● Configuration of product Part No.

QZF- HAMB 401 ()- L() ()

① ② ③ ④ ⑤

- ① Series name
- ② Type of connector
HAMB: A and Mini B series
- ③ Type of cable
E: One pair of AWG28 stranded cables and two AWG28 cables and AWG28 drain wires, which are shielded.
- ④ Length of cable
Up to 300 cm in 10 cm increments
- ⑤ Color of connector and cable
Blank: Ivory white
D : Black



● Components

①	QZF-A series of male connector
②	Cable
③	QZF-Mini B series of male connector

Mating connectors: USB A series of right-angle DIP type female connector for PCBs (Complying with USB Ver. 2.0 standard)

USB A series of right-angle SMT type female connector for PCBs (Complying with USB Ver. 2.0 standard)

USB Mini B series of right-angle SMT type female connector for PCBs (Complying with USB Ver. 2.0 standard)