0.8mm Pitch



Connectors

HDRA series

0.8 mm Pitch Connectors

Outline

HDRA series connectors have been developed based on the HDR series products for high speed signal interfaces such as SCSI-III, VHDCI and PCI.

Features

- Conforms to the United States ANSI/SFF8441 standards
- Provided with high performance EMI/ESD-shielded structure
- Mounted with locks or screws
- Low profile
- Sequence structure

Principal Applications

Server, Router, Notebook type personal computers and their peripheral equipment, and mobile equipment

Electrical Characteristics

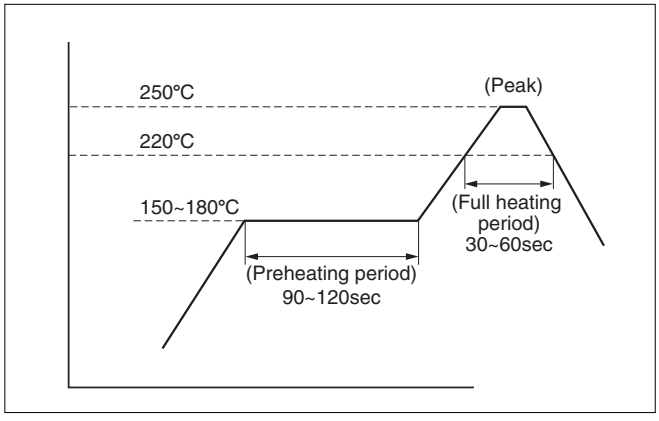
Rated voltage	30V AC (r.m.s.)
Rated current	0.3 A
Insulation resistance	Over 500 megohms at 100V DC
Dielectric withstanding voltage	250V AC (r.m.s.)
Contact resistance	70 milliohms or less (for combination of MA or MA1 and LFDT) 100 milliohms or less (for combination with MA1 and W1LFDT)

Document Disclaimer

- When placing orders with us, minimum order quantities are set for every product.
- Be sure to contact us before starting preliminary design of PCBs using our connectors.
- The specifications and information shown in the catalog are subject to change without notice.

Downloaded from Arrow.com.

Reflow temperature profile (for reference purposes)



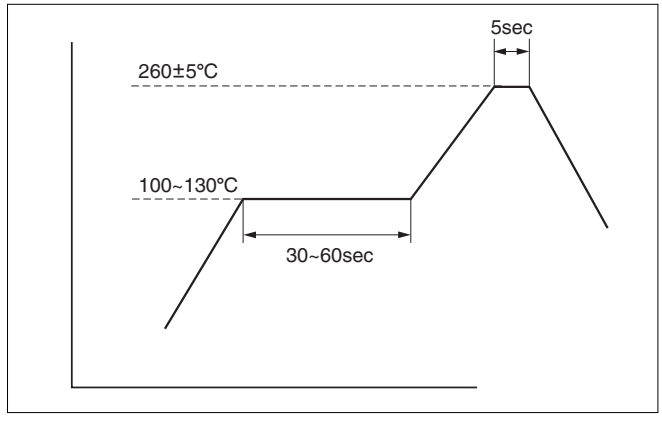
The reflow temperature profile shown in this drawing is for reference purposes. This profile depends on requirements such as reflow equipment, soldering paste, and PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own reflow temperature profile.

●Applicable products

HDRA series SMT type for PCB

The profile shown in this drawing is applicable only for those products shown above.

Flow temperature profile (for reference purposes)



The flow temperature profile as shown above is for reference purposes. This profile depends on requirements such as the PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own flow temperature profile.

●Applicable products

HDRA series through hole type for PCB

The profile shown in this drawing is applicable only for those products shown above.

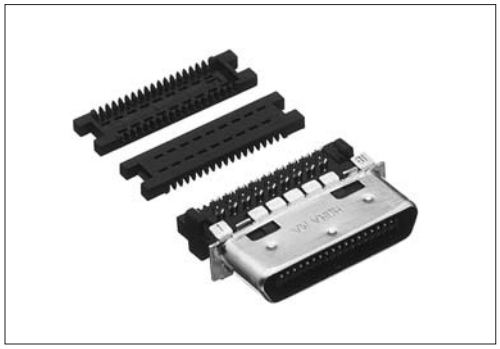
Downloaded from Arrow.com.

HONDA TSUSHIN KOGYO CO., LTD.

IDC type male connector for cable
HDRA-E36MA+

RoHS

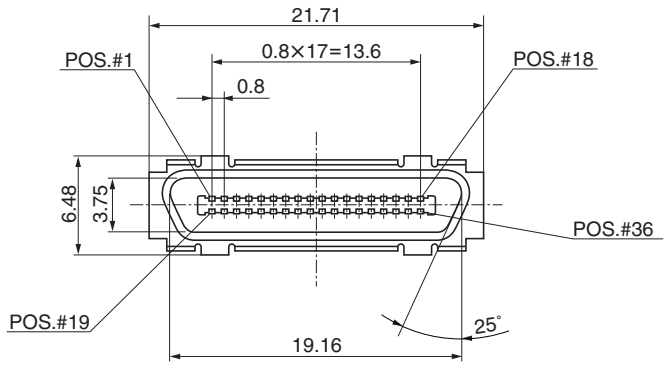
0.8mm pitch connector
For cable
IDC
ANSI/SFF8441

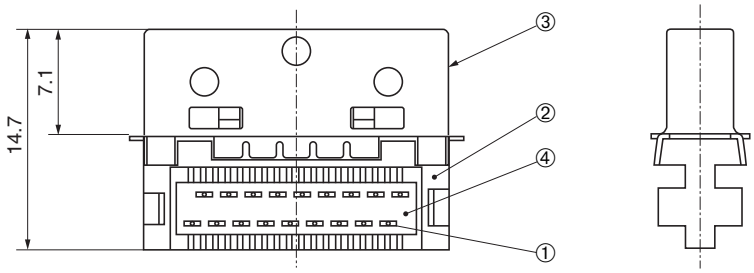


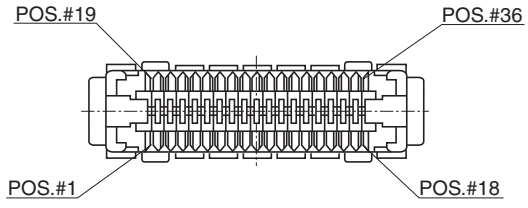
● **Configuration of product Part No.**

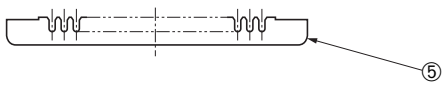
HDRA- E 36 M A+
①

① Series name
② No. of contacts: 36
③ Type of contact
M: IDC type, male
④ Compatible cable
A: AWG#30(7/0.1), dia. 0.58 mm









● **Components**

①	Contacts
②	Insulator
③	Shell
④	Spacer
⑤	Cable housing

Mating connector: HDRA series right-angle through hole type or straddle SMT type female connector

For use with housings: HDRA series upright housing, HDRA-E36LPTH

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Downloaded from Arrow.com.

IDC type male connector for cable
HDRA-E68MA+

RoHS

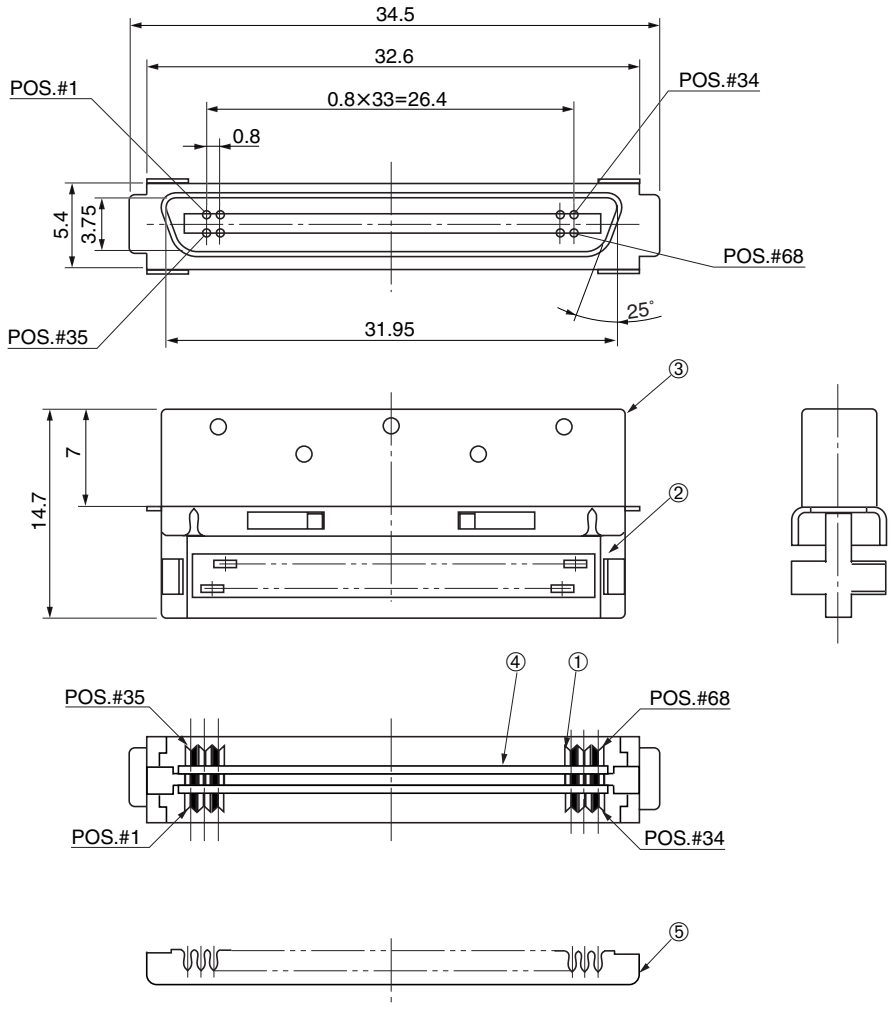
0.8mm pitch connector
For cable
IDC
ANSI/SFF8441



● **Configuration of product Part No.**

HDRA- E 68 M A+
①

① Series name
② No. of contacts: 68
③ Type of contact
M: IDC type, male
④ Compatible cable
A: AWG#30 (7/0.1), dia. 0.58 mm



● **Components**

①	Contacts
②	Insulator
③	Shell
④	Spacer
⑤	Cable housing

Mating connector: HDRA series right-angle through hole type or straddle SMT type female connector

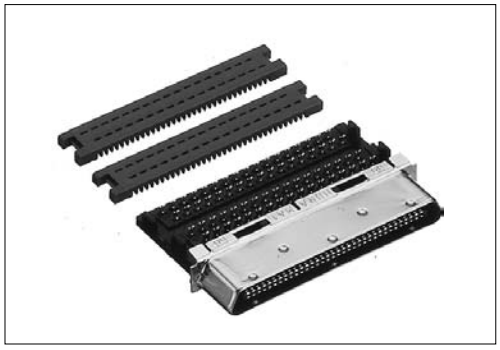
For use with housings: HDRA series upright housing, HDRA-E68LGKPA

Downloaded from Arrow.com.

IDC type male connector for cable
HDRA-E68M( )1+

RoHS

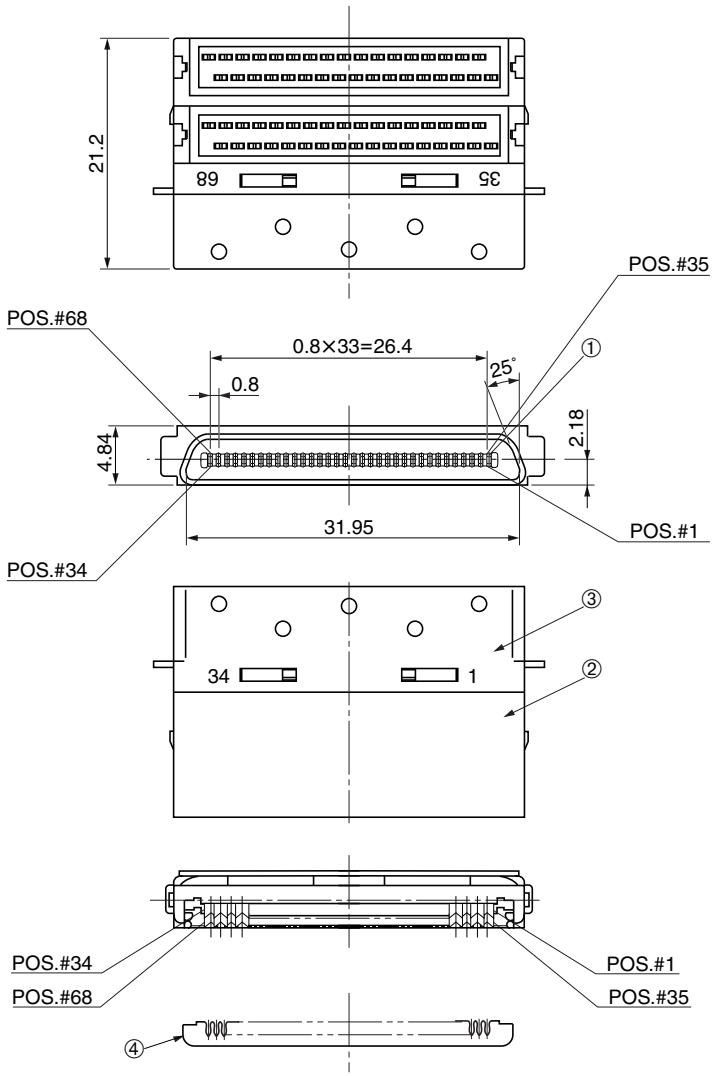
0.8mm pitch connector
For cable
IDC
ANSI/SFF8441



● **Configuration of product Part No.**

HDRA- E 68 M ( ) 1+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 68
③ Type of contact
M: IDC type, male
④ Compatible cable
Blank: AWG#30 (1/0.254), dia. 0.58 mm
A : AWG#30 (7/0.1), dia. 0.58 mm
C : AWG#34 (7/0.064), dia. 0.44 mm
⑤ IDC method
1: One side IDC



● **Components**

①	Contacts
②	Insulator
③	Shell
④	Cable housing

Mating connector: HDRA series right-angle through hole type or straddle SMT type female connector

For use with housings: HDRA series vertical housing, HDRA-E68LGKP ( )

Required tool: Termination tool: FHAT-0027, IDC tool: FLPT-0021A, Hand presser: RPS-K4 (Refer to page Tool-10)

Downloaded from Arrow.com.

IDC type male connector for cable
HDRA-E100M( )1+

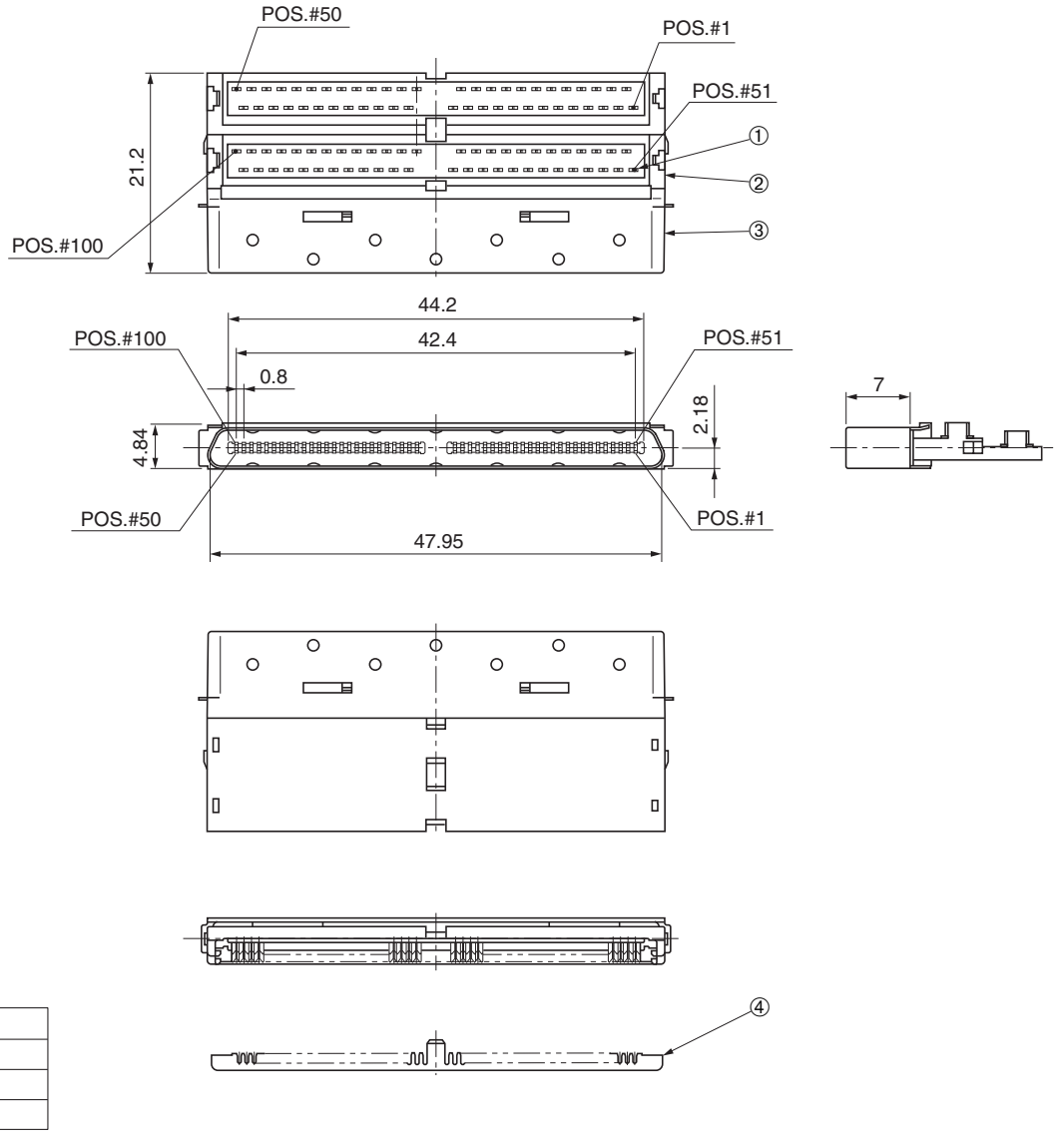
RoHS



● **Configuration of product Part No.**

HDRA- E 100 M ( ) 1+
① ② ③ ④

① Series name
② No. of contacts: 100
③ Type of contact
M: IDC type, male
④ Compatible cable
Blank: AWG#30 (1/0.254), dia. 0.58 mm
A : AWG#30 (7/0.1), dia. 0.58 mm



● **Components**

①	Contacts
②	Insulator
③	Shell
④	Cable housing

Mating connector: HDRA series right-angle through hole type female connector

For use with housings: HDRA series vertical housing, HDRA-E100LPA, HDRA-E100LPW( )

Required tool: Termination tool: FHAT-0038A, IDC tool: FLPT-0021A, Hand presser: RPS-K4 (Refer to page Tool-10)

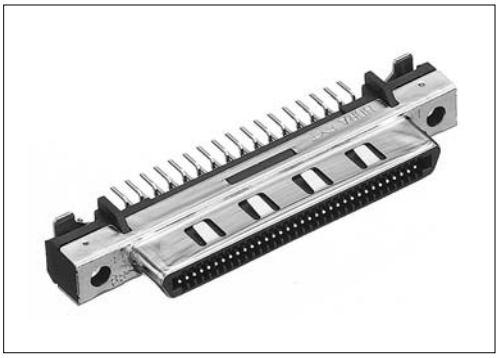
Downloaded from Arrow.com.

HONDA TSUSHIN KOGYO CO., LTD.

Straight DIP type female connector for PCBs
HDRA-EC68FDT-( )+

RoHS

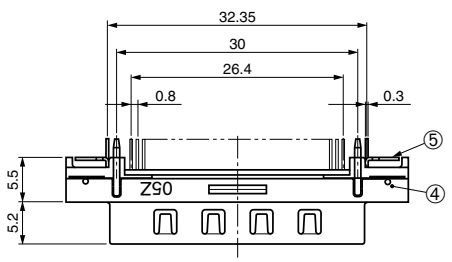
0.8 mm pitch connector
For PCBs
Straight DIP
EMI-filtered countermeasures

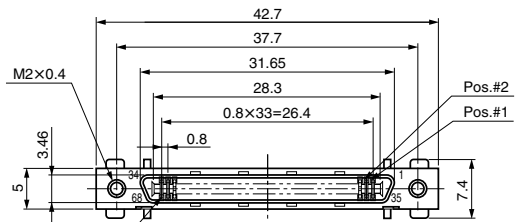


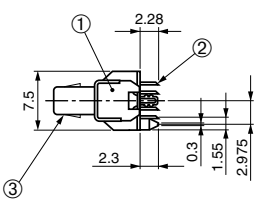
● **Configuration of product Part No.**

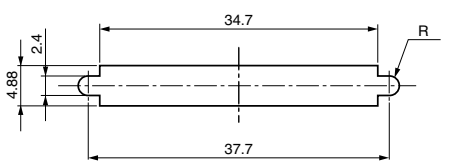
HDRA- EC 68 FD T- ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 68
③ Form of contact
FD: Straight, DIP type, female
④ With ground lock pin
⑤ Lock screw
SLD: Provided
Blank: None

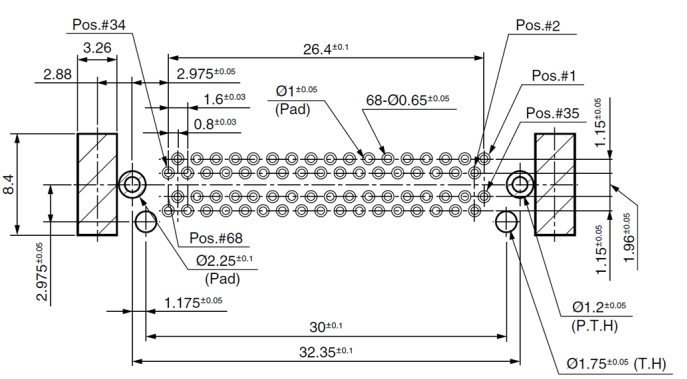








Recommended panel cut-out dimensions



Recommended PCB layout

● **Components**

①	Insulator
②	Contact
③	Shell
④	Sqr.nut
⑤	Hold down

Mating connector: HDRA series male connectors

Dip **SMT** **Press-in** **IDC** **Soldering** **Crimping** **Wire wrapping** **Others**

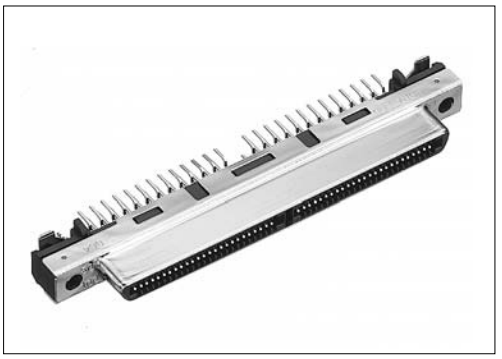
Downloaded from Arrow.com.

HONDA TSUSHIN KOGYO CO., LTD.

Straight DIP type female connector for PCBs
HDRA-EC100FDT-( )+

RoHS

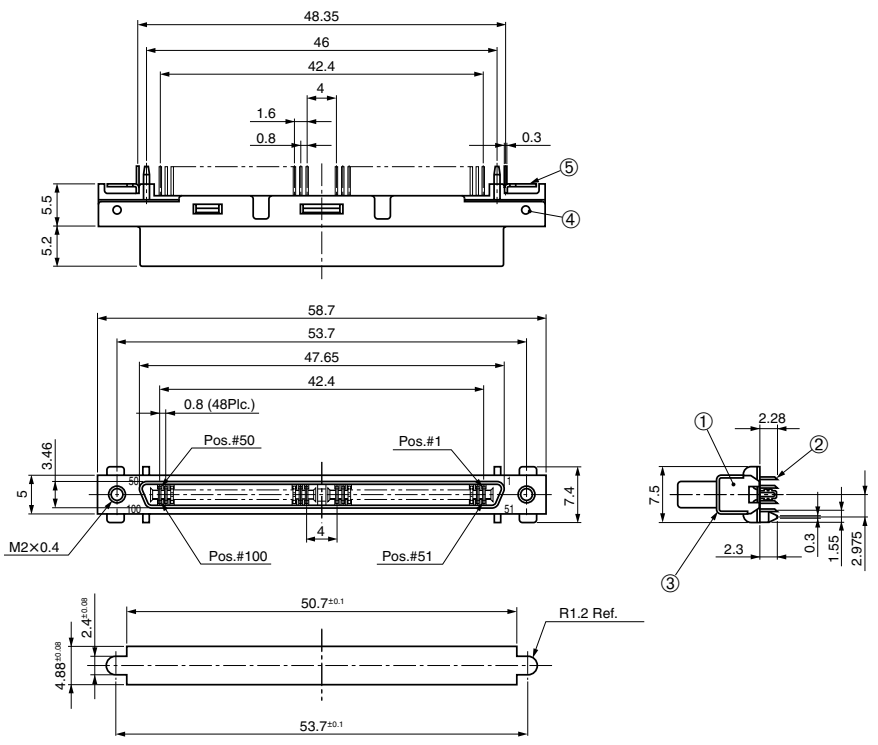
0.8 mm pitch connector
For PCBs
Straight DIP
EMI-filtered countermeasures



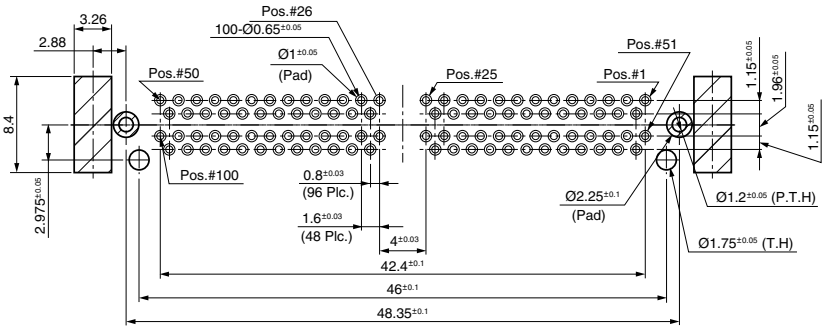
● **Configuration of product Part No.**

HDRA- EC 100 FD T- ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 100
③ Form of contact
FD: Straight, DIP type, female
④ With ground lock pin
⑤ Lock screw
SLD: Provided
Blank: None



Recommended panel cut-out dimensions



Recommended PCB layout

● **Components**

①	Insulator
②	Contact
③	Shell
④	Sqr.nut
⑤	Hold down

Mating connector: HDRA series, male connector

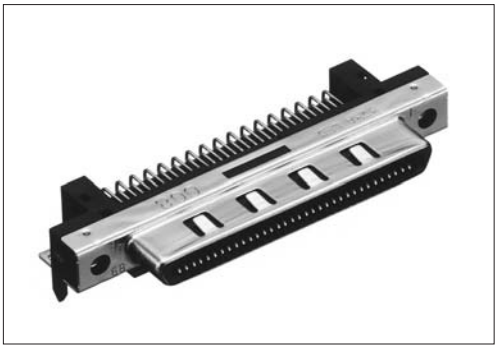
Downloaded from Arrow.com.

HONDA TSUSHIN KOGYO CO., LTD.

Right-angle through hole type female connector for PCB
HDRA-EC68LFDT( )-( )+

RoHS

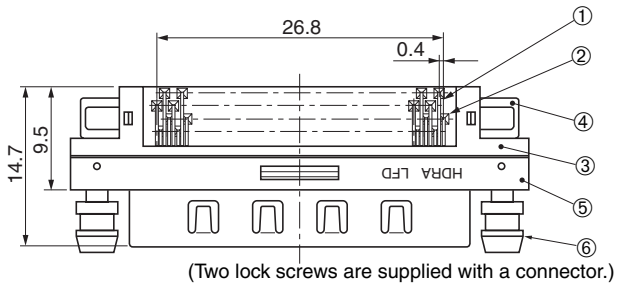
0.8 mm pitch connector
For PCB
Right-angle Through hole
ANSI/SFF8441



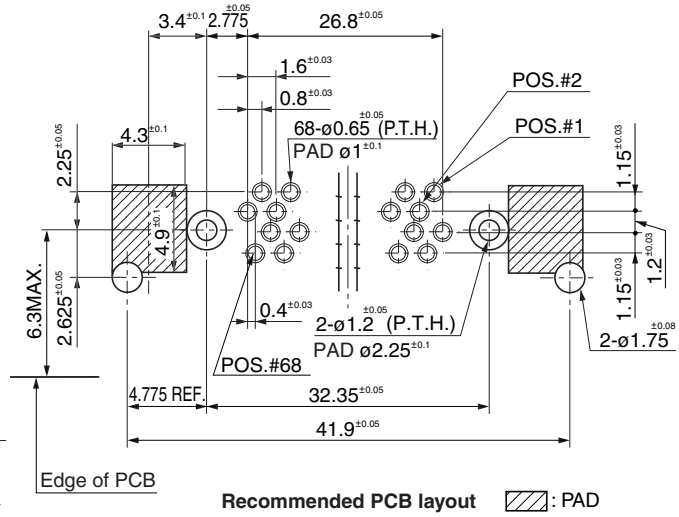
● **Configuration of product Part No.**

HDRA- EC 68 LFD T ( )- ( )+
① ② ③ ④ ⑤ ⑥

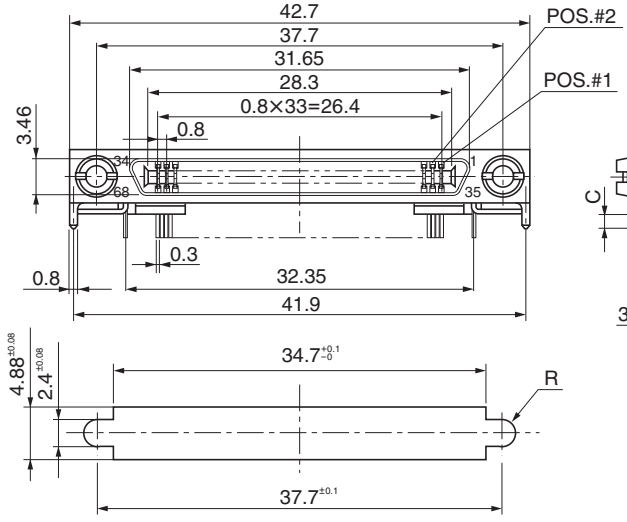
① Series name
② No. of contacts: 68
③ Type of contact
LFD: Right-angle through hole type, female
④ With board lock pin
⑤ Length of contact, board lock pins or location peg
Blank: A-2.08 mm contacts
: B-2.28 mm board lock pins
: C-3.7 mm location peg
S : A-2.08 mm contacts
B-2.28 mm board lock pins
C-2.3 mm location peg
2 : A-2.08 mm contacts
B-2.28 mm board lock pins
C-1.4 mm location peg
⑥ Lock screws
Blank : None
SL : provided (Thickness of panel: 1.12 mm)



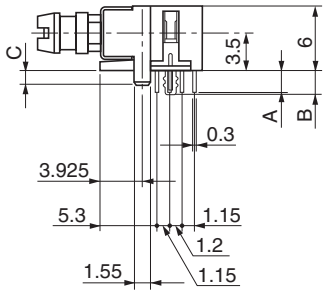
(Two lock screws are supplied with a connector.)



Recommended PCB layout ▨: PAD
t=1.6mm



Recommended panel cut-out dimensions



Select the connector according to panel thickness.
For the application without panel, use washers or special lock screw (P/N: HDRA-E68LFD-7C).

● **Components**

①	Contacts
②	Brackets
③	Insulator
④	Hold downs
⑤	Shell
⑥	Lock screws

Mating connector: HDRA series IDC type male cable connector, or straddle SMT type male connector

Others | Wire wrapping | Crimping | Soldering | IDC | Press-in | SMT | Through hole

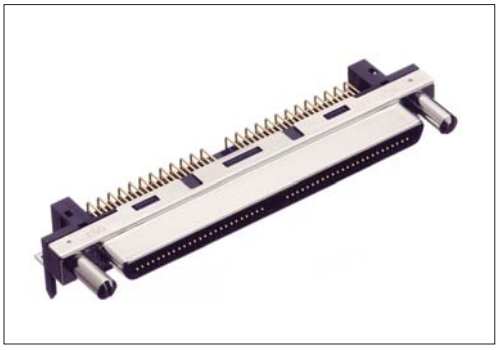
Downloaded from Arrow.com.

HONDA TSUSHIN KOGYO CO., LTD.

Right-angle through hole type female connector for PCB
HDRA-EC100LFDT( )-( )+

RoHS

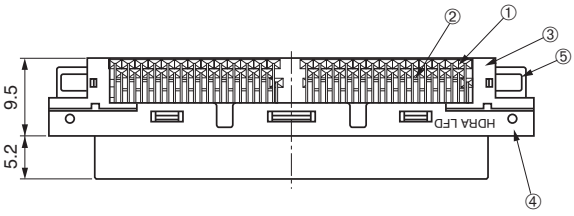
0.8mm pitch connector
For PCB
Right-angle Through hole
EMI shielded

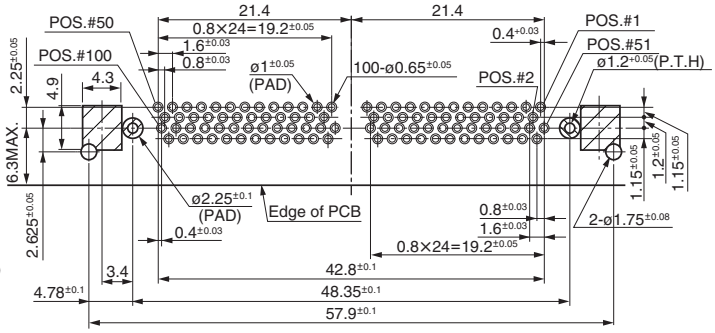


● **Configuration of product Part No.**

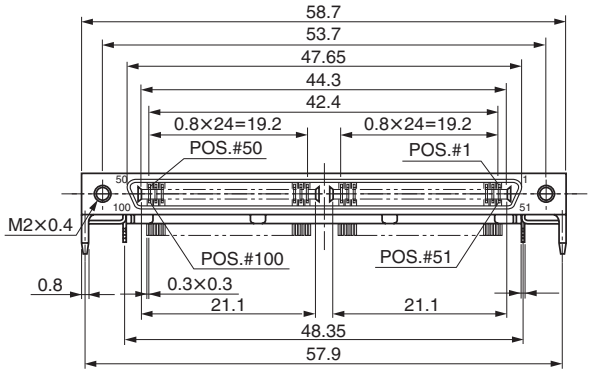
HDRA- EC 100 LFD T ( )- ( )+
① ② ③ ④ ⑤ ⑥

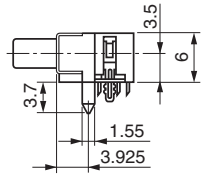
① Series name
② No. of contacts: 100
③ Type of contact
LFD: Right-angle through hole type, female
④ With ground contact
⑤ Through hole length
Blank: 2.08 mm
1 : 3.4 mm (under planning)
⑥ Lock screw
Blank: None
SL : Provided (Panel thickness: 1.12 mm)
GP : Guide pin





Recommended PCB layout ▨: PAD
t=1.6mm





● **Components**

①	Bracket
②	Contacts
③	Insulator
④	Shell
⑤	Hold downs

Select the connector according to panel thickness. For the application without panel, use washers or special lock screw (P/N: HDRA-E68LFD-7C).

Mating connector: HDRA series male connector

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Downloaded from Arrow.com.

HONDA TSUSHIN KOGYO CO., LTD.

Right-angle through hole type female connector for PCB
HDRA-EA36LFDT-( )+

RoHS

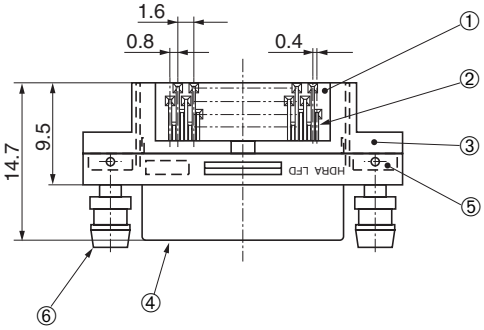
0.8mm pitch connector
For PCB
Right-angle Through hole
ANSI/SFF8441



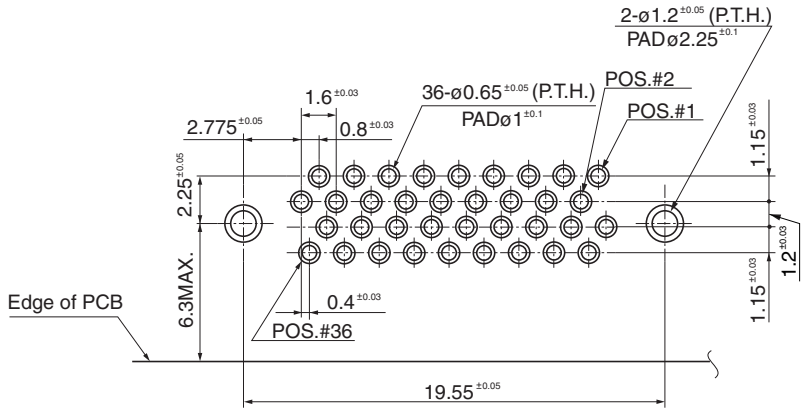
● **Configuration of product Part No.**

HDRA- EA 36 LFD T-( )+
①

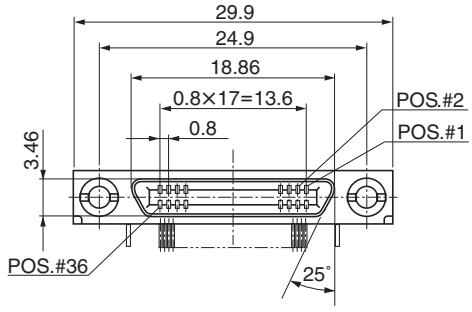
① Series name
② No. of contacts: 36
③ Type of contact
LFD: Right-angle through hole type, female
④ Provided with board lock mechanism
⑤ Lock screw
Blank: None
SL : Provided (Thickness of panel: 1.12 mm)

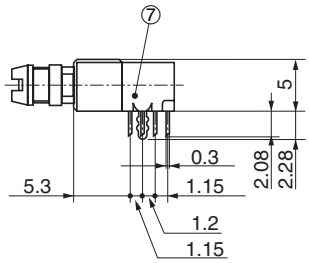


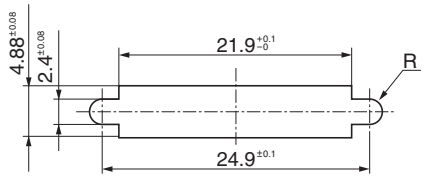
(Two lock screws are supplied with a connector.)



Recommended PCB layout
t=1.6mm







Recommended panel cut-out dimensions

Select the connector according to panel thickness. For the application without panel, use washers or special lock screw (P/N: HDRA-E68LFD-7C).

● **Components**

①	Bracket
②	Contacts
③	Insulator
④	Shell
⑤	Square nuts
⑥	Lock screw
⑦	Board lock pin

Mating connector: HDRA series IDC type male cable connector

Note● Jack screw is not available at present.

Others | Wire wrapping | Crimping | Soldering | IDC | Press-in | SMT | Through hole

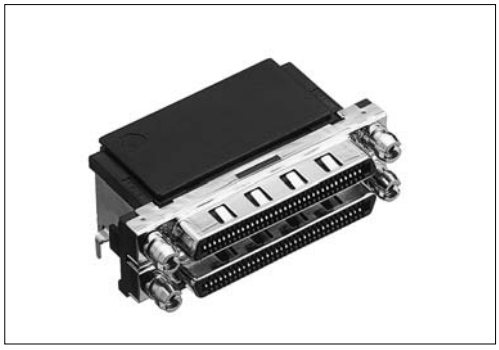
Downloaded from Arrow.com.

HONDA TSUSHIN KOGYO CO., LTD.

Right-angle through hole type female connector for PCB
HDRA-E68W( )LFDT1EC-( )+

RoHS

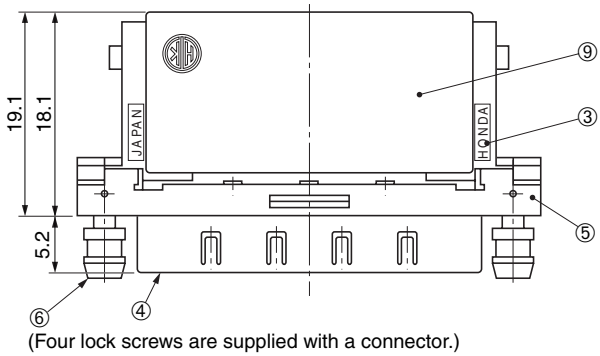
0.8mm pitch connector
For PCB
Right-angle Through hole
ANSI/SFF8441



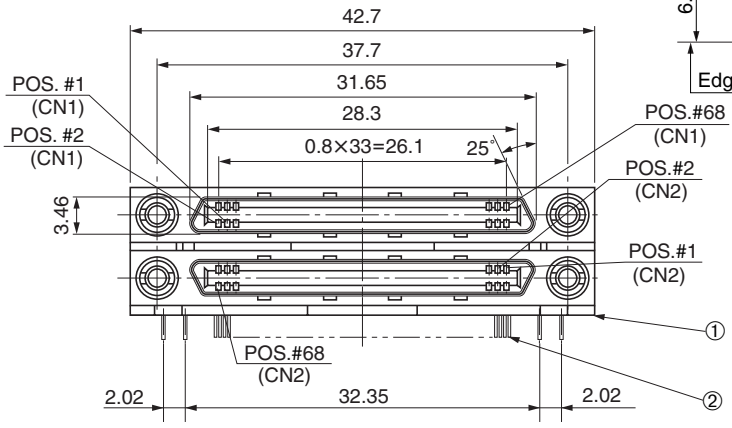
● **Configuration of product Part No.**

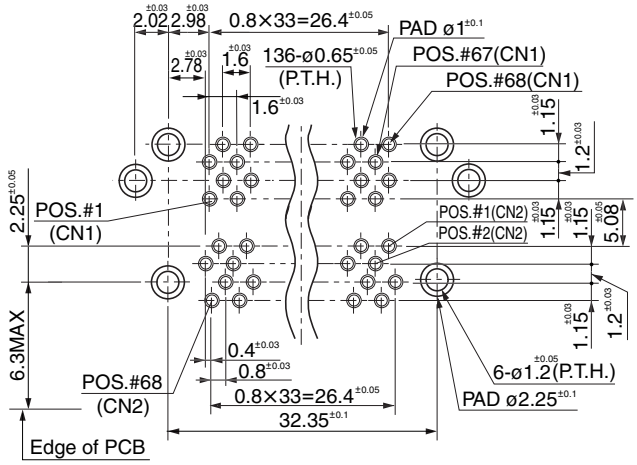
HDRA- E 68 W ( ) LFD T1 E C -( )+
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Series name
② No. of contacts: 136 (68×2)
③ No. of stacks: 2
④ Length of contact, through hole
1: 2.08 (PCB: 1.6 mm thick)
2: 3.4 (PCB: 2.4 mm thick)
⑤ Type of contact
LFD: Right-angle through hole type, female
⑥ Earth lock pin (provided with board lock mechanism)
⑦ Provided with shell connection reinforcement
⑧ Provided with protection cover for contacts and bends
⑨ Lock screw
Blank: None
SL : Provided (Thickness of panel: 1.12 mm)

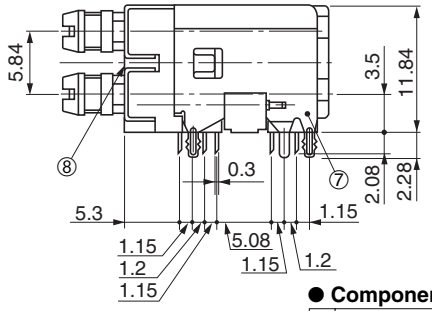


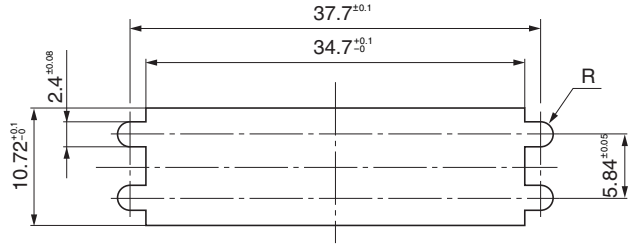
(Four lock screws are supplied with a connector.)





Recommended PCB layout
t=1.6mm or 2.4mm





Recommended panel cut-out dimensions

Select the connector according to panel thickness. For the application without panel, use washers or special lock screw (P/N: HDRA-E68LFD-7C).

● **Components**

①	Bracket
②	Contacts
③	Insulator
④	Shell
⑤	Square nuts
⑥	Lock screw
⑦	Board lock pin
⑧	Shell connector
⑨	Protection covers

Mating connector: HDRA series IDC type male cable connector, or straddle SMT type male connector

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Downloaded from Arrow.com.

HONDA TSUSHIN KOGYO CO., LTD.

Right-angle through hole type female connector for PCB
HDRA-E100W( )LFDT1EC-( )+

RoHS

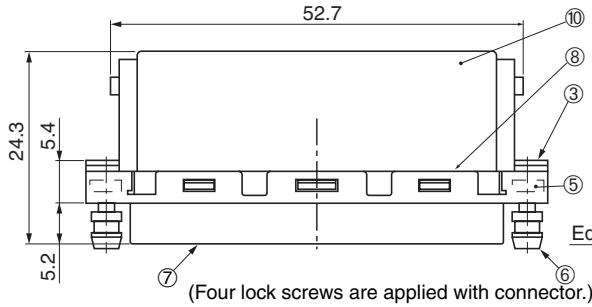
0.8 mm pitch connector
For PCB
Right-angle Through hole
ANSI/SFF8441

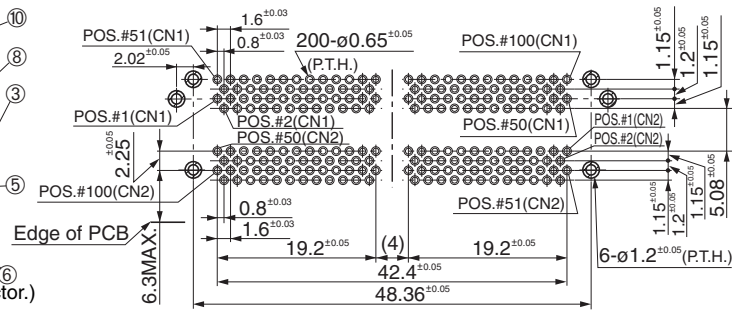


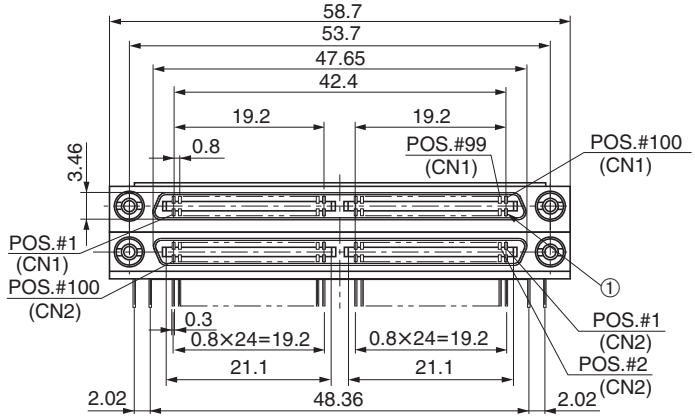
● **Configuration of product Part No.**

HDRA- E 100 W ( ) LFD T1 E C- ( )+
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

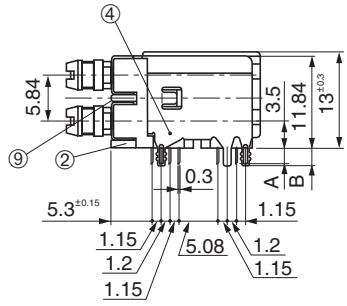
① Series name
② No. of contacts: 100
③ W: Double stacked connector
④ Length of contacts or board lock pins
1: A-2.08 mm contacts
B-2.28 board lock pins
2: A-3.4 mm contacts
B-3.6 mm board lock pins
⑤ Type of contact
LFD: Right-angle through hole type, female
⑥ Earth lock pin (provided with board lock mechanism)
⑦ Provided with shell connection reinforcement
⑧ Provided with protection cover for contacts and bends
⑨ Lock screws
Blank: None
SL : provided (Thickness of panel: 1.12 mm)

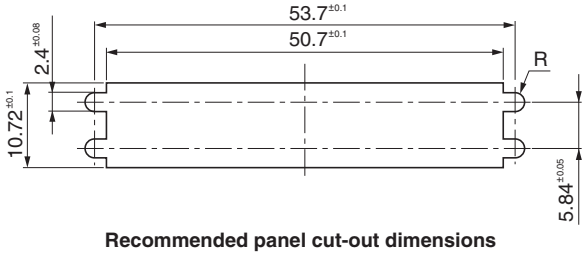






Recommended PCB layout
t=1.6mm or 2.4mm
: PAD





Recommended panel cut-out dimensions

Select the connector according to panel thickness. For the application without panel, use washers or special lock screw (P/N: HDRA-E68LFD-7C).

● **Components**

①	Contacts
②	Brackets
③	Insulator A
④	Board lock pin
⑤	Square nuts
⑥	Lock screws
⑦	Shell
⑧	Insulator B
⑨	Shell connection
⑩	Protection covers

Mating connector: HDRA series IDC type male connector

Downloaded from Arrow.com.

0.8mm pitch connector
Vertical housing
EMI shielded
ANSI/SFF8441

EMI-shielded vertical plastic housing for standard cable HDRA-E68LGKP( )

RoHS

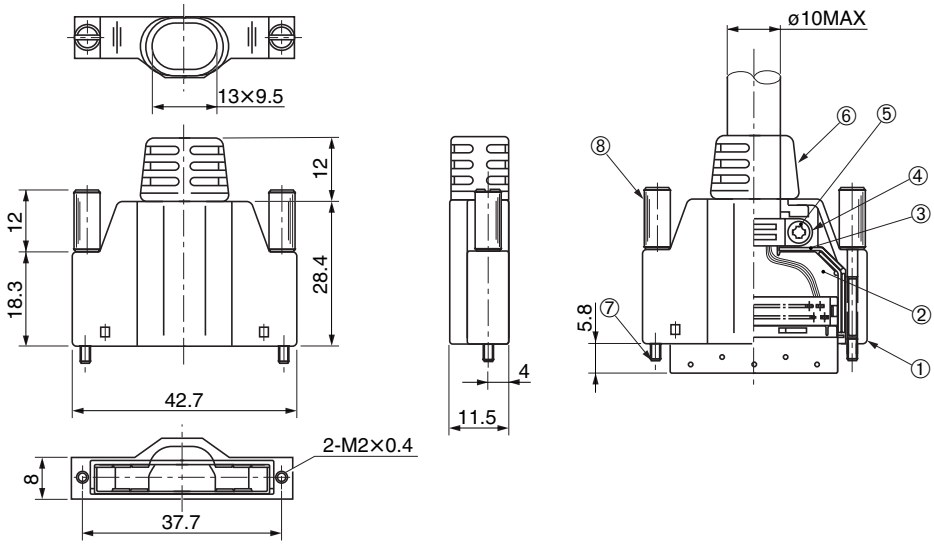


● **Configuration of product Part No.**

HDRA- E 68 LGKP ( )
① ② ③

① Series name
② No. of contacts: 68
③ A: Vertical cable holding type
C: Vertical ultrasonic welding type
E: Vertical ultrasonic welding type
F: Vertical ultrasonic welding type
Outside diameter of cable is shown in the dimension table.

HDRA-E68LGKPA



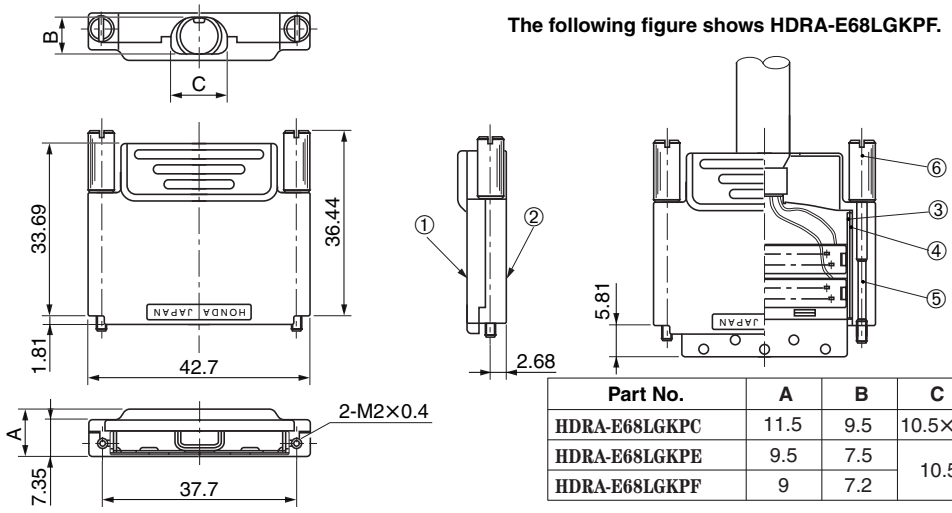
Thumb screw with plastic cap should be tightened by hand. For screw driver assembly use the product (P/N: HDRA-E68LGKPE3) with metal thumb screws attached.

● **Components**

①	Cover
②	Inner shell A
③	Inner shell B
④	Cable clamp
⑤	Screw
⑥	Bushing
⑦	Thumb screw
⑧	Cap (plastic)

HDRA-E68LGKPC,LGKPE,LGKPF

The following figure shows HDRA-E68LGKPF.



Part No.	A	B	C
HDRA-E68LGKPC	11.5	9.5	10.5×9.5
HDRA-E68LGKPE	9.5	7.5	10.5
HDRA-E68LGKPF	9	7.2	

● **Components**

①	Cover A
②	Cover B
③	Shell A
④	Shell B
⑤	Thumb screw
⑥	Cap (plastic)

For use with connectors: HDR series IDC type cable connector : -LGKPA for MA, -LGKPC/-LGKPE for MA1, and -LGKPF for MC1

Required tools (for LGKPC, LGKPE and LGKPF): Clamp caulking tools: FLPT-0017B (Refer to page Tool-10)
Ultrasonic welder, Housing holding jig, Sonic welder

Downloaded from Arrow.com.

EMI-filtered vertical metallic housing
HDRA-E100LPW( )

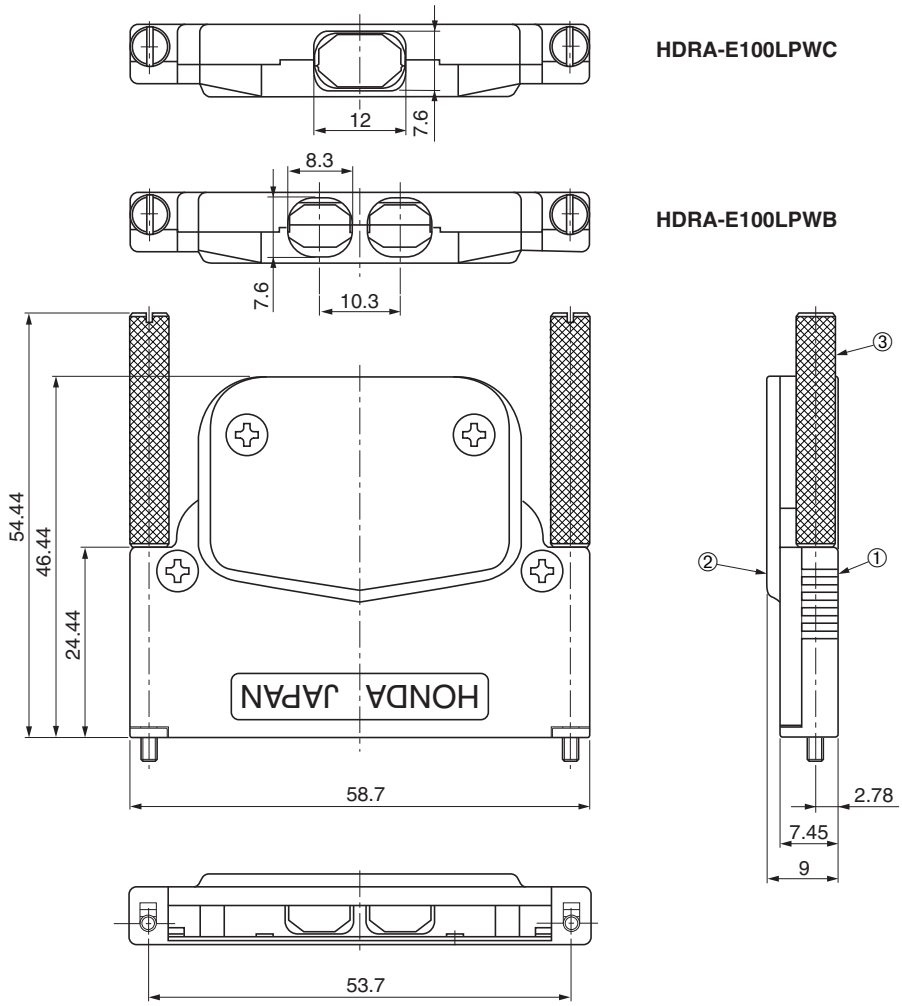
RoHS



● **Configuration of product Part No.**

HDRA- E 100 LP W ( )
① ② ③ ④

① Series name
② No. of contacts: 100
③ Type of housing: Vertical type
④ Compatible cable and form of through hole
B : Two holes are available for two cables. Outside diameters of cable are 6.9 mm
C : One hole is available for one cable. Outside diameter of cable is 9.6 mm



● **Components**

①	Housing A
②	Housing B
③	Lock screws

For use with connectors: HDRA-E100M( )1+

Downloaded from Arrow.com.

HONDA TSUSHIN KOGYO CO., LTD.

EMI-shielded vertical plastic housing
HDRA-E36LPTH

RoHS

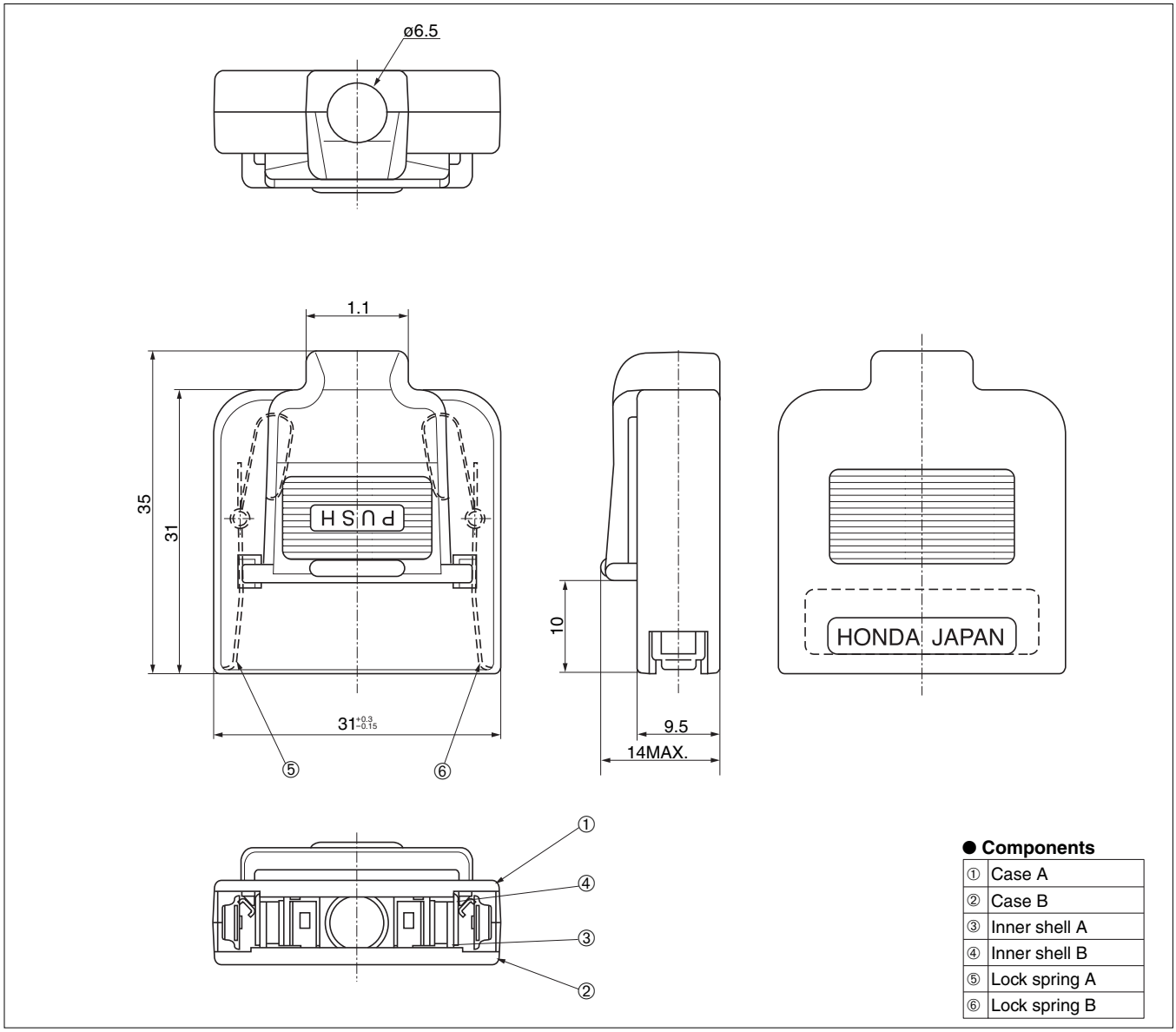
0.8mm pitch connector
Vertical housing
EMI shielded
ANSI/SFF8441



● **Configuration of product Part No.**

HDRA- E 36 LPTH
① ② ③

① Series name
② No. of contacts: 36
③ Type of housing: Vertical type



● **Components**

①	Case A
②	Case B
③	Inner shell A
④	Inner shell B
⑤	Lock spring A
⑥	Lock spring B

For use with connectors: HDRA-E36M( )+

Mating connectors: HDRA -EA36LFDT+ + Lock screw (HDR-E14LMY-SL-02C) panel:0.5-0.8mm thick
-EA36FT-NS+ + Lock screw (HDR-E14LMY-SL-02C) panel:0.5-0.8mm thick

Required tools: Clamp caulking tools: FLPT-0024A (Refer to page Tool-10) Ultrasonic welder, Housing holding jig, Sonic welder

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Downloaded from Arrow.com.