



Outline

HDR series connectors are very small surface mount (SMT) interface connectors with their contacts arranged at a pitch of 0.8 mm, designed for the purpose of saving extra space on printed circuit boards.

Features

- Long-life design allowing up to 5,000 mating cycles
- Low profile with overall height of 5mm from the PCB surface
- Sequential structure allowing up to two stacked connections
- One-touch-lock-type and detachable / re-attachable housing
- EMI/ESD-shielded and over-molded type metal housing
- IDC type connector on the cable end allows simultaneous termination

Principal Applications

Portable information terminals, smaller-sized office automation equipment, and their peripherals

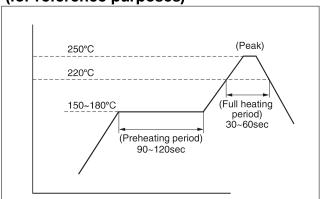
Electrical Characteristics

Rated voltage	125V AC (r.m.s.)
Rated current	0.5 A
Insulation resistance	Over 1000 megohms at 250V DC
Dielectric withstanding voltage	350V AC (r.m.s.)
Contact resistance	70 milliohms or less

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.

Reflow temperature profile (for reference purposes)

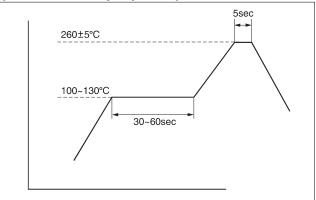


The reflow temperature profile shown in this drawing is for reference purposes. This profile depends on requirements such as reflow equipment, soldering paste, and PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own reflow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

●Applicable products

HDR-EA()LMYPG1-()()+ HDR-EA()LFYPG1-()()+

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

HDR-EC()FDT()-()+
HDR-EC()LFDT()-()+

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

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Product List



IDC type male connector for cable HDR-E()MAG1+

A-6 HDR series...4



IDC type female connector for cable
HDR-E()FAG1+

A-10 HDR series...8



EMI-filtered vertical plastic housing for standard and thin cable HDR-E()LP()()-() A-14 HDR series...12



Soldering type male connector for cable HDR-E()MSG1+

A-7 HDR series...5



Right-angle SMT type female connector for PCB HDR-EA()LFYPG1-()()+

A-11 HDR series...9

EMI-filtered screw-lock vertical type plastic housing HDR-E26LPH

A-15 HDR series...13



Straddle SMT type male connector for PCB HDR-E50MT()+

A-8 HDR series...6



Straight through hole type female connector for PCB HDR-EC()FDT()-()+

A-12 HDR series...10



Right-angle SMT type male connector for PCB HDR-EA()LMYPG1-()()+

A-9 HDR series...7



Right-angle through hole type female connector for PCB HDR-EC()LFDT()-()+

A-13 HDR series...11



IDC type male connector for cable HDR- E()MAG1+

For cable

IDC

(RoHS)

EMI shielded

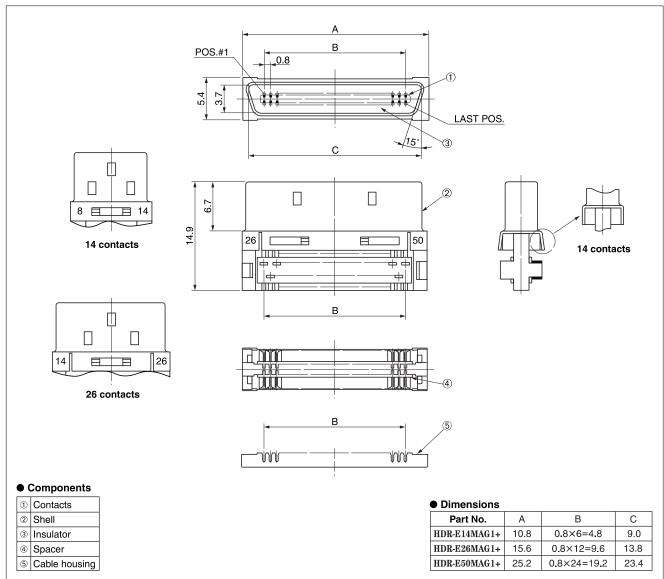


Configuration of product Part No.

<u>(4)</u> <u>(5)</u> <u>(6)</u>

HDR-E() MAG1+

- ① ② ③
 ① Series name
- ② E: With metal shell
- 3 No. of contacts: 14, 26 or 50
- ④ Type of contact M: IDC type, Male
- **5** Compatible cable
 - A: AWG#30 (7/0.1), dia. 0.58mm
- **©** Contact plating
 - G1: 0.76µm or more Gold plate



Mating connector: HDR series SMT type or through hole type female connector

For use with housings: HDR series upright housing





Soldering type male connector for cable HDR-E()MSG1+

For cable

Soldering

EMI shielded

(RoHS)

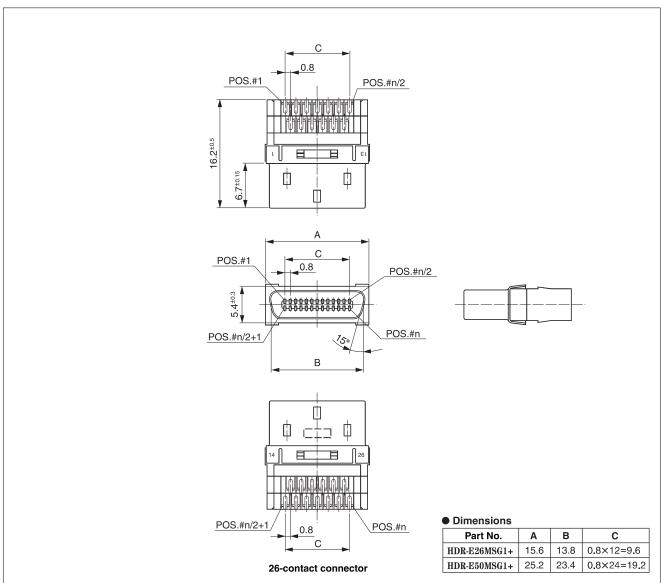


Configuration of product Part No.

$\frac{\text{HDR-}}{\tiny{\textcircled{1}}} \underbrace{\text{E}}_{\textcircled{2}} \underbrace{\textcircled{3}}_{\textcircled{3}} \underbrace{\text{M}}_{\textcircled{4}} \underbrace{\text{S}}_{\textcircled{6}} \underbrace{\text{G1+}}_{\textcircled{6}}$

- ① Series name
- ② E: With metal shell
- 3 No. of contacts: 26 or 50
- 4 Male
- (5) Soldering
- © Contact plating

G1: 0.76µm or more Gold plate



Mating connector: HDR series female connector

For use with housings: HDR-E()LPH

Straddle SMT type male connector for PCB HDR-E50MT()+

For PCB

Straddle SMT

(RoHS)



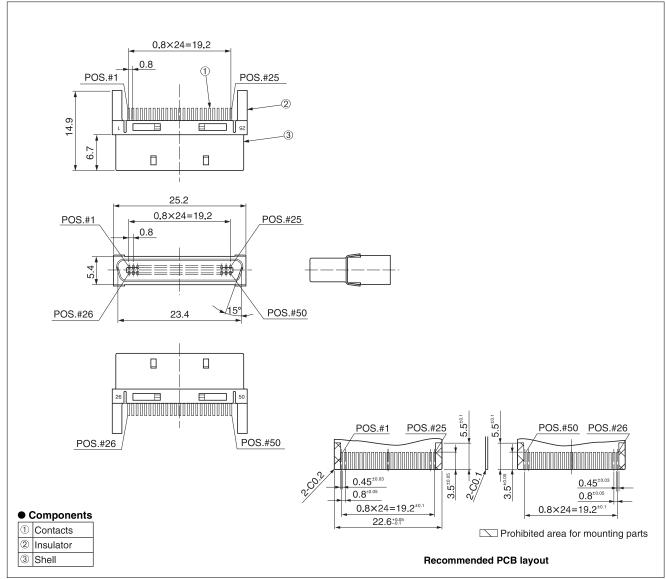
Configuration of product Part No.

$\underline{\underline{HDR}}$ - $\underline{\underline{E}}$ $\underline{\underline{50}}$ $\underline{\underline{MT}}$ $\underline{\underline{()}}$ +

- ① Series name
- 2 No. of contacts: 50
- 3 Type of contact

MT: Straddle SMT type, male

PCB thickness
 Blank: 0.4 mm
 A : 0.8 mm



Mating connector: HDR series SMT type female connector



Right-angle SMT type male connector for PCB HDR-EA()LMYPG1-()()+

For PCB

Right-angle SMT

(RoHS)



Configuration of product Part No.

HDR-EA () LMY P G1-

① Series name

2 Contact pitch: 0.635 mm

3 No. of contacts: 14 or 26

Type of contact

LMY: Right-angle SMT type, male

⑤ Contact plating

G1: 0.76 µm or more Gold plate

6 Lock screw

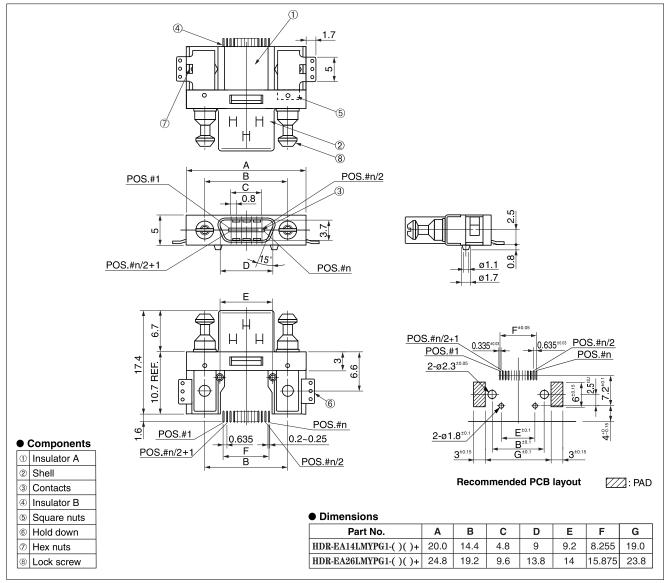
Blank: None

: Provided

The Length of lock screw

E: 6.6 (standard)

K: 3.3 (for HDR-E () LPA-LS) Compatible with B-to-B and B-to-C



Mating connector: HDR series IDC type or solder type female cable connector

For use with housing: -SLE: HDR series vertical housing

-SLK: HDR series vertical housing -LS, -LSA

IDC type female connector for cable HDR-E()FAG1+

For cable

IDC

(RoHS)

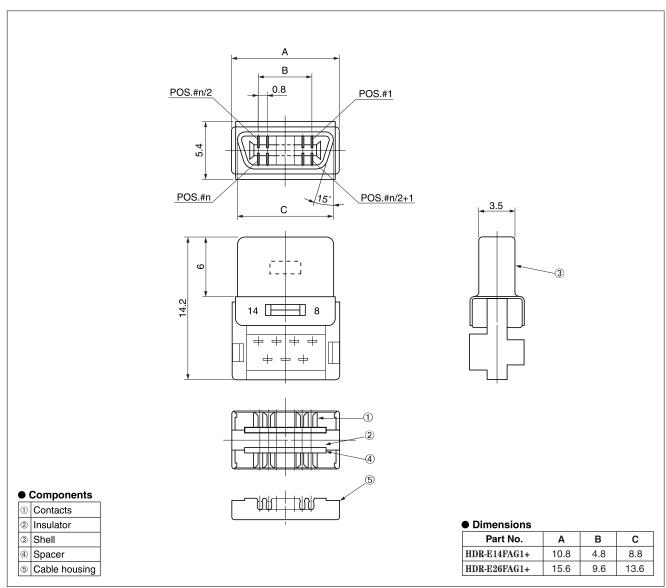
EMI shielded



Configuration of product Part No.

HDR-E()FAG1+

- 1 2 ① Series name
- ② E: With metal shell
- 3 No. of contacts: 14 or 26
- Type of contact F: IDC type, female
- **(5)** Compatible cable
 - A: AWG#30 (7/0.1), dia. 0.58 mm
- **©** Contact plating
- G1: 0.76 µm or more Gold plate



Mating connector: HDR series SMT type male connector

For use with housings: HDR series vertical housing











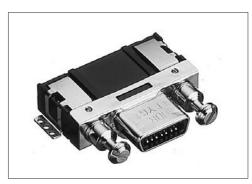


Right-angle SMT type female connector for PCB HDR-EA()LFYPG1-()()+

For PCB

Right-angle SMT

(RoHS)



Configuration of product Part No.

HDR-EA () LFY P G1- () ()+

1 ① Series name

2 Contact pitch: 0.635 mm

3 No. of contacts: 14 or 26

Type of contact

LFY: Right-angle SMT type, female

⑤ Contact plating

G1: 0.76 µm or more Gold plate

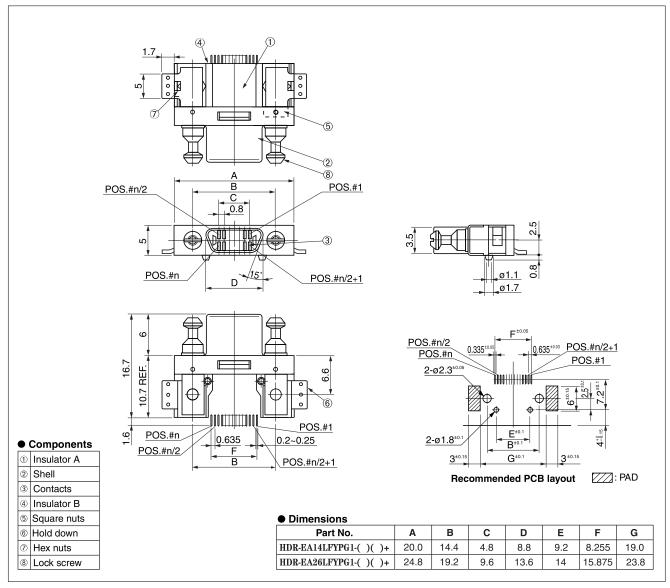
6 Lock screw

Blank: None SL : Provided

② Length of lock screw

E: 6.6 (standard)

K: 3.3 (for HDR-E () LPA-LS) Compatible with B-to-B and B-to-C



Mating connector: HDR series IDC or solder type male cable connector

For use with housing: -SLE: HDR series vertical housing

-SLK: HDR series vertical housing -LS, -LSA

Straight through hole type female connector for PCB HDR-EC()FDT()-()+

For PCB

Straight Through hole

(RoHS)

EMI shielded



Configuration of product Part No.

 $\underline{\underline{HDR-}}$ \underline{EC} $\underline{\underline{()}}$ $\underline{\underline{FD}}$ $\underline{\underline{T}}$ $\underline{\underline{()}}$ - $\underline{\underline{()}}$ +

① Series name② No. of contacts: 14 or 26

© Lock screw Blank: None

3 Type of contact

SL : Provided

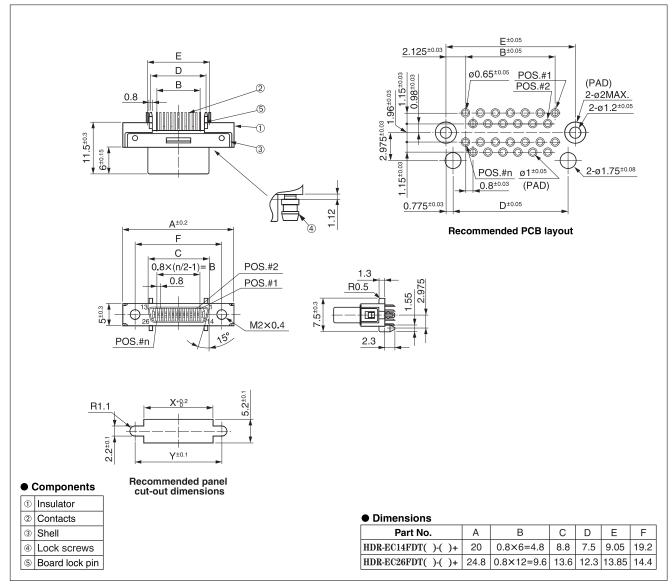
FD: Straight through hole type, female

(Panel thickness: 1.12 mm)

With ground contact

⑤ Contact plating

G2: Min. 0.76 µm Gold plate



Mating connector: HDR series male connector



Right-angle through hole type female connector for PCB HDR-EC()LFDT()-()+

For PCB

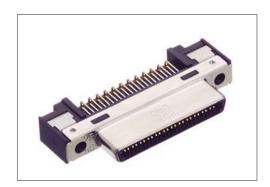
Right-angle Through hole

RoHS

EMI shielded

SLE: Spring lock

SLG: Screw lock



 Configuration of product Part No. HDR-EC () LFD T ()- ()+ 1

① Series name @ No. of contacts: 14, 26 or 50

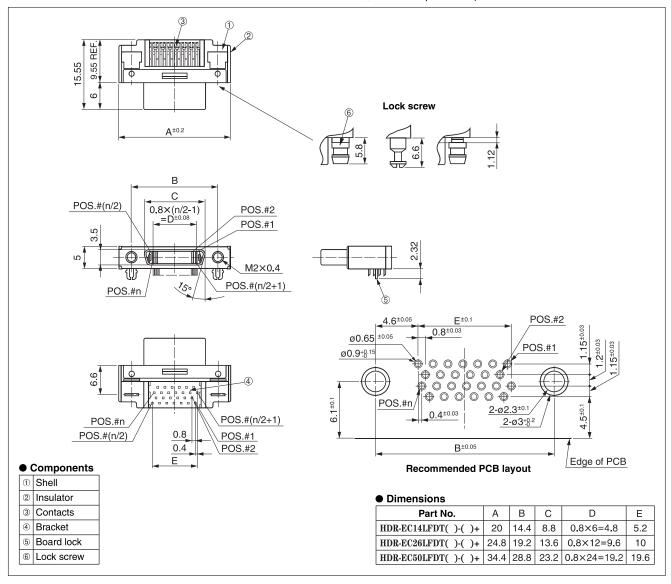
6 Lock screw Blank: None 3 Type of contact SLD: Screw lock

LFD: Right-angle through hole type, female

With ground contact (5) Through hole length, contact plating

(Panel thickness: 1.12 mm) Blank: 1.65 mm, Min. 0.1 μm Gold plate 1 : 2.08 mm, + Min. 0.5 μm Palladium alloy

: 2.08 mm, Min. 0.76 µm Gold plate



Mating connector: HDR series male connector

EMI-filtered vertical plastic housing for standard and thin cable $HDR-E(\)LP(\)(\)-(\)$

Housing

Vertical

(RoHS)

EMI shielded

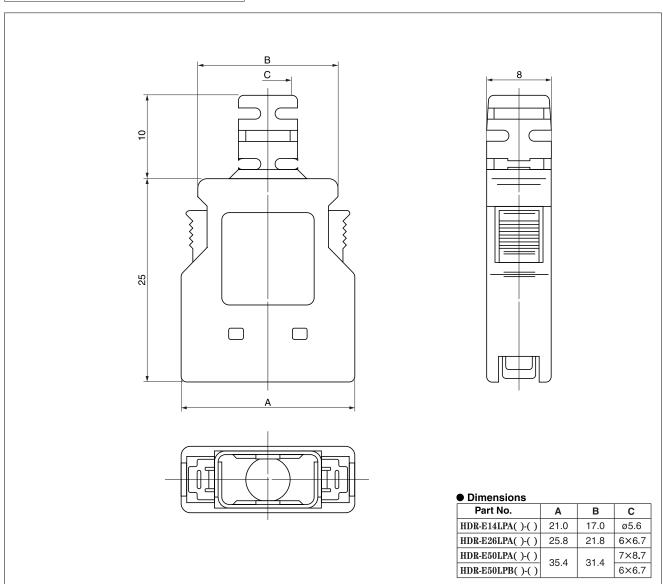


Configuration of product Part No.

<u>HDR-</u>E()<u>LP()()-()</u>

- ① Series name
- 2 No. of contacts 14, 26 or 50
- 3 Type of housing: Vertical type
- - A: Standard cable
 - B: Thin cable

- © Color of housing Blank: Gray
 - 5 : Black
- ® Length of lock spring
 - Blank: PCB side lock screw -SLE LS : PCB side lock screw -SLK



For use with connectors: HDR series IDC type cable connector HDR-E()MAG1+, HDR-E()FAG1+

Required tools: Clamp caulking tools: FHPT-0024A, for 14 contacts cable connectors (Refer to page Tool-10)

FHPT-0022A, for 26 contacts and 50 contacts thin cable connectors

FHPT-0023A, for 50 contacts thick (standard) cable connectors









EMI-filtered screw-lock vertical type plastic housing HDR-E26LPH

Housing

Vertical

EMI shielded

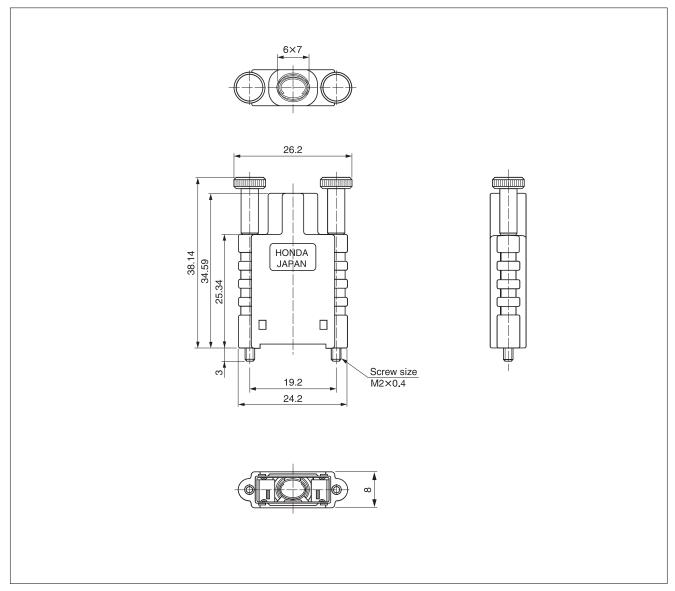
RoHS



Configuration of product Part No.

HDR-E 26 LP H

- ① Series name
- 2 No. of contacts: 26
- 3 Type of housing
- 4 Serial number



Mating connector: HDR series female connector

For use with connector: HDR-E26MAG1+, HDR-E26MSG1+

Required tools: Clamp caulking tools: MHPT-0006A











EMI-filtered vertical type plastic housing with mounting hardware for spring-lock, for heavy wires and relay connections HDR-E26LPKA+ (RoHS)

Housing

For Relay connections

EMI-filtered countermeasures



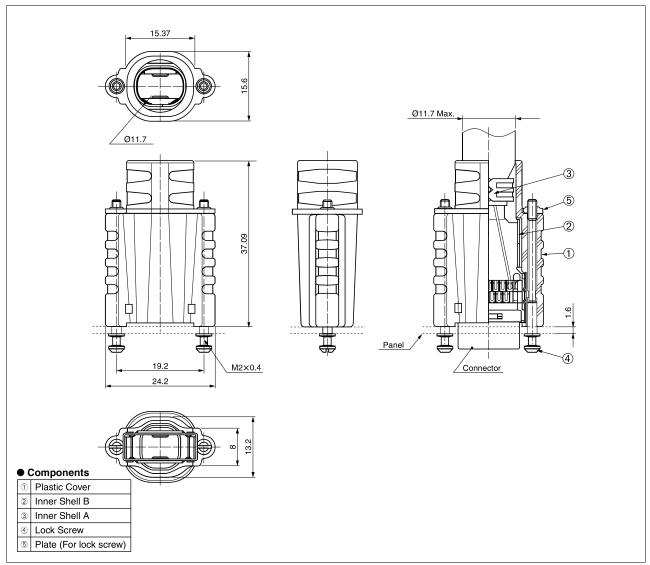
Configuration of product Part No.

HDR-E 26 LP K A+

- ① Series name
- ② No. of contacts: 26
- 3 Form of housing Vertical type housing
- Serial number

For use with cables: Outside diameter of heavy wire: 10.0-11.7 mm

⑤ Thickness of relay panel: 1.6 mm



Mating connector: HDR series of spring-lock type connector

For use with connectors: $\ensuremath{\mathsf{HDR}}$ series of soldering type male or female connector



EMI-filtered screw-lock vertical type plastic housing for heavy wires HDR-E26LPK+

Housing

EMI-filtered countermeasures

Vertical type

RoHS

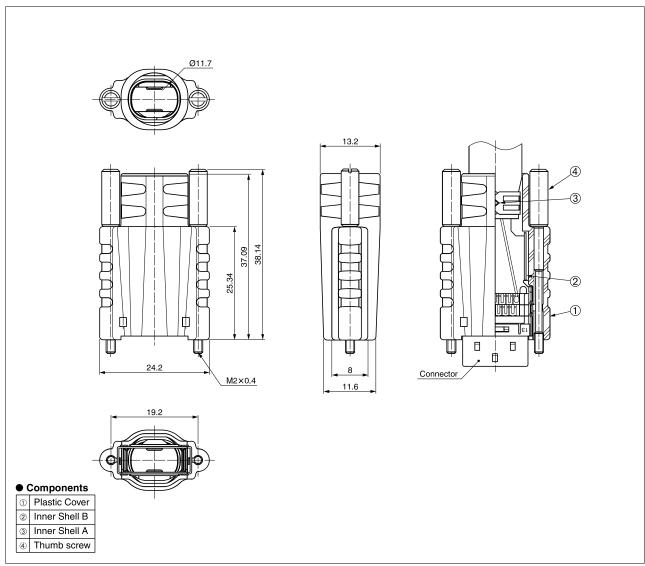


Configuration of product Part No.

HDR-E 26 LP K+

- ① Series name
- 2 No. of contacts: 26
- 3 Form of housing Vertical type housing
- Serial number

For use with cables: Outside diameter of cable: 10.0-11.7 mm



Mating connector: HDR series of screw-lock type connector

For use with connectors: HDR series of soldering type male or female connector







EMI-filtered spring-lock vertical type plastic housing HDR-E26LPJ+

Housing

Vertical type

RoHS

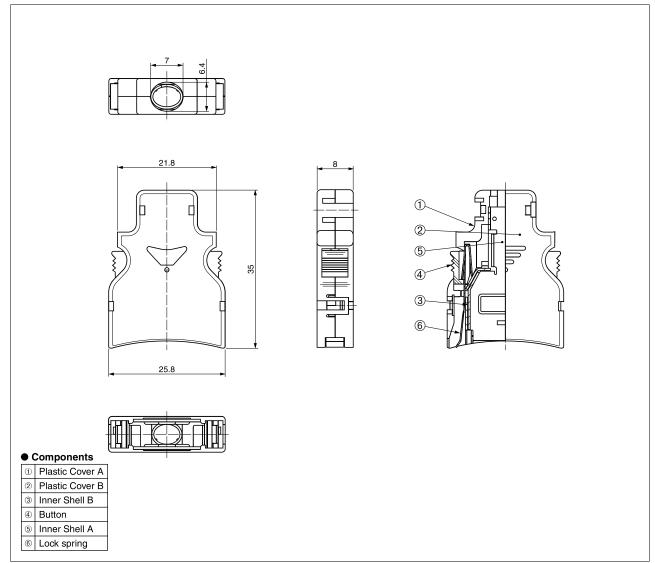
EMI-filtered countermeasures



Configuration of product Part No.

HDR-E 26 LP J+

- ① Series name ② No. of contacts: 26
- 3 Form of housing Vertical type housing
- Serial number



Mating connector: HDR series of spring-lock type connector

For use with connectors: HDR series of soldering type male or female connector





(II) HONDA TSUSHIN KOGYO CO., LTD.

0.8 mm pitch connector

EMI-filtered vertical type plastic housing with mounting hardware for spring-lock, for thin wires and relay connections HDR-E26LPHA+

Housing

For Relay connections

EMI-filtered countermeasures



Configuration of product Part No.

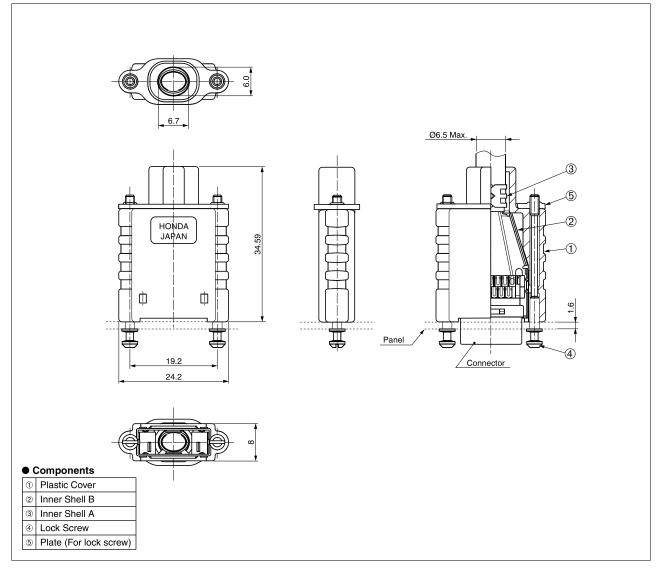
HDR-E 26 LP H A+

1 2 3 4

- ① Series name
- 2 No. of contacts: 26
- ③ Form of housing Vertical type housing
- Serial number

For use with cables: Outside diameter of thin wire: 5.8-6.5 mm

⑤ Thickness of relay panel: 1.6 mm



Mating connector: HDR series of screw-lock type connector

For use with connectors: HDR series of soldering type male or female connector

(III) HONDA TSUSHIN KOGYO CO., LTD.

Soldering type female connector for cables HDR-E26FSG1+

0.8 mm pitch connector

For cables

Soldering type

(RoHS)

EMI-filtered countermeasures



Configuration of product Part No.

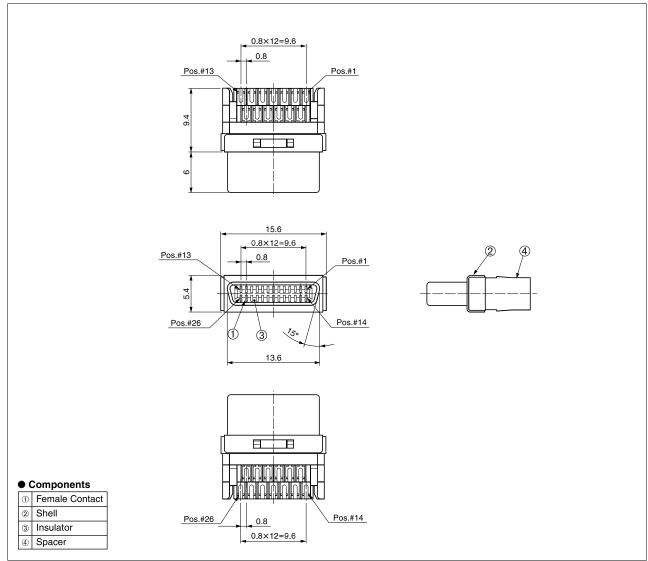
HDR- E 26 FS G1+

- 1 Series name
- 2 With metal shell
- 3 No. of contacts: 26

Form of housing
 FS: Soldering type, female connector, AWG#28
 Insulator OD: 1.0 mm max.

⑤ Contact plating

G1: Min. 0.76 mm Gold plate



Mating connector: HDRA series, male connector

For use with connectors: HDR-E26LPH(), HDR-E26LPJ+, HDR-E26LPK(), HDR-E26ALP()+

EMI-filtered screw-lock right-angle type plastic housing HDR-E26ALPA+

Housing

Right-angle

RoHS

EMI-filtered countermeasures

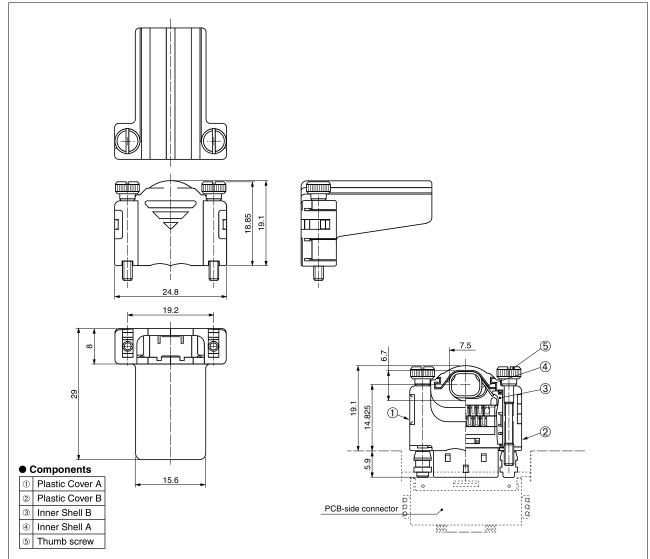


Configuration of product Part No.

HDR- E 26 ALP A+

- ① Series name
- 2 No. of contacts: 26
- ③ Form of housing Right-angle
- Serial number

For use with cables: Outside diameter of cable: 6.2-6.8 mm



Mating connector: HDR series of screw-lock type connector

For use with connectors: HDR series of soldering type male or female connector

EMI-filtered screw-lock vertical type plastic housing HDR-E50LPH

Housing

Vertical type

HS EMI-filtered countermeasures

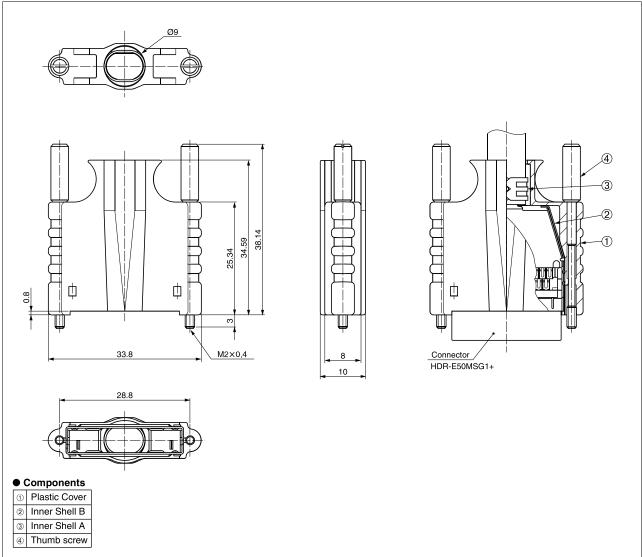
RoHS



Configuration of product Part No.

HDR-E 50 LP H

- 1 2 3
- ① Series name
- ② No. of contacts: 50
- ③ Form of housing Vertical type housing
- Serial number



Mating connector: HDR series of screw lock type connectors

For use with connectors: HDR-E50MSG1+

HDR-E50M()G()-

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