

1.27 mm Pitch



Connectors

PCR series

1.27 mm Pitch Connectors

Outline

PCR series provides bellows-contact type high-density connectors, which can support a wide variety of applications. The PCR is a sister series of PCS series connectors, since accessories such as backshell and termination tool can be shared between the PCR and PCS series.

Features

- Board-to-cable connectors provide a wide variety of contacts, 20 - 96 contacts.
- EMI-filtered design meets FCC and other standards.
- Board-to-board connectors also provide a wide variety of contacts, 20 - 128 contacts.
- Allows live wire connections for power terminals and signal terminals in three stages.
- Backshell with mating guide for preventing short circuit allows parallel mating.
- Best suited for parallel, horizontal, or vertical-stacked connections.

Principal Applications

Office automation equipment, instrumentation equipment, communications equipment, factory automation, etc.

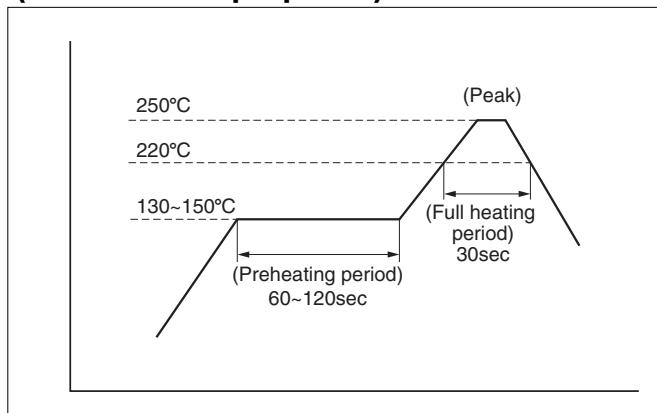
Electrical Characteristics

| | Board-to-board connector | Board-to-cable connector |
|---------------------------------|---------------------------------------|---------------------------------------|
| Rated voltage | 250V AC (r.m.s.) | 250V AC (r.m.s.) |
| Rated current | 1 A | 1 A |
| Insulation resistance | Over 1000 megohms at 500V DC | Over 1000 megohms at 250V DC |
| Dielectric withstanding voltage | 750V AC (r.m.s.) for up to one minute | 500V AC (r.m.s.) for up to one minute |
| Contact resistance | 35 milliohms or less | 35 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)



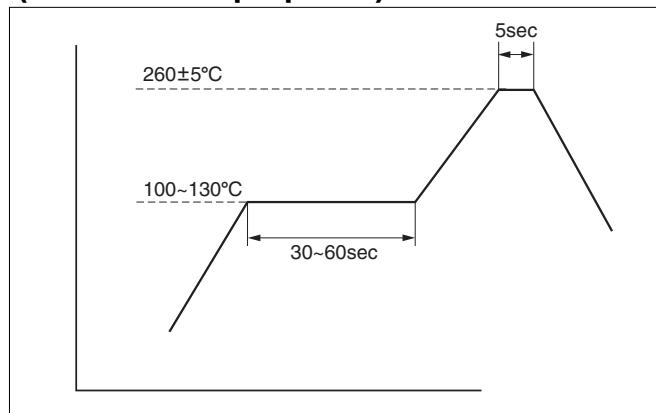
The reflow temperature profile shown in this drawing is for reference purposes. This profile depends on requirements such as reflow equipment, soldering paste, and PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own reflow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

●Applicable products

PCR-E()MY+

PCR-E()MY-SLT

Flow temperature profile (for reference purposes)



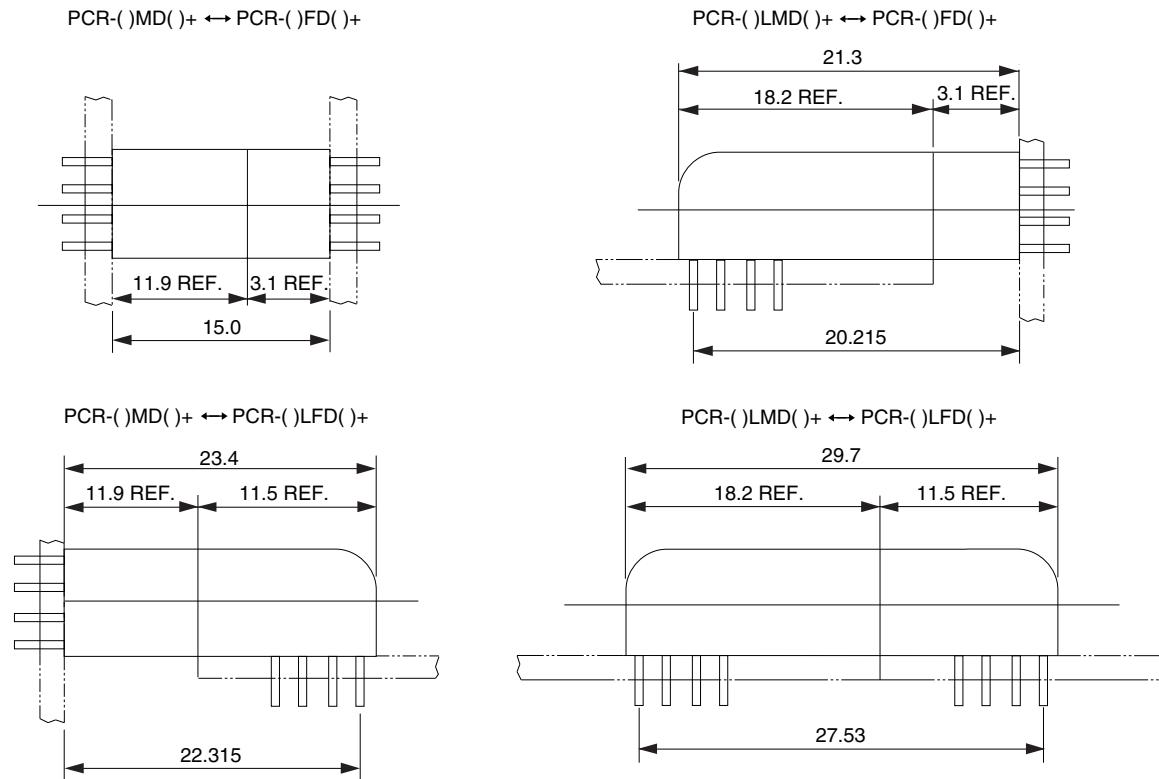
The flow temperature profile as shown above is for reference purposes. This profile depends on requirements such as the PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own flow temperature profile.

●Applicable products

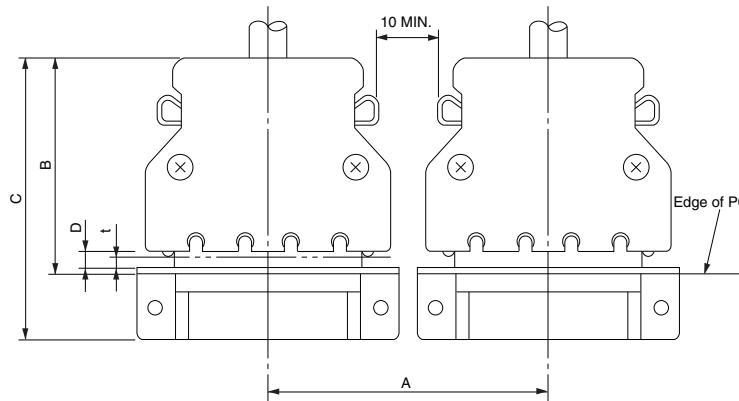
PCR series through hole type connector

Dimensions in combination of various connectors for reference purposes

Board-to-board connector dimensions for reference purposes



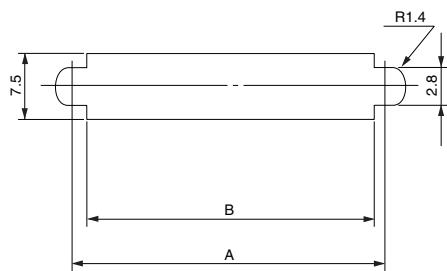
Board-to-cable connector dimensions for reference purposes



PCB-side Connectors: For PCR-E () LMD+

| Number of contacts | A | B | C | D | t |
|--------------------|--------------|------------|--------------|-----|--------------------|
| 20 | 35 or more | | | | |
| 28 | 40 or more | | | | |
| 36 | 45.1 or more | 36 or more | 46.8 or more | 2.7 | Thickness of panel |
| 50 | 54 or more | | | | |
| 68 | 65.4 or more | | | | |
| 96 | 83.2 or more | 41 or more | 51.8 or more | 3.7 | t = 1.6 MAX. |

Panel mounting-hole dimensions for reference purposes



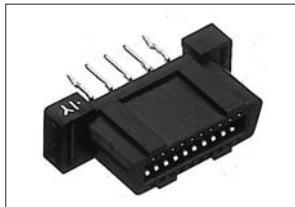
| Number of contacts | A | B |
|--------------------|-------|------|
| 20 | 27.40 | 23.8 |
| 28 | 32.48 | 28.9 |
| 36 | 37.56 | 34.0 |
| 50 | 46.45 | 42.9 |
| 68 | 57.88 | 54.6 |
| 96 | 75.66 | 72.1 |

Product List



Right-angle through hole type female connector for PCB
PCR-()LFD()+

B-78
PCR series...6



Straight through hole type female connector for PCB
PCR-()FD()+

B-79
PCR series...7



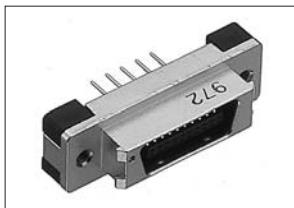
Right-angle through hole type male connector for PCB
PCR-()LMD()+

B-80
PCR series...8



Straight through hole type male connector for PCB
PCR-()MD()+

B-81
PCR series...9



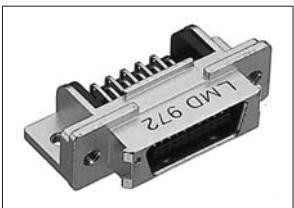
Straight through hole type male connector for PCB
PCR-E()MD+

B-82
PCR series...10



Straight through hole type male connector for PCB
(with screw lock)
PCR-E()MD-SL+

B-83
PCR series...11



Right-angle through hole type male connector for PCB
PCR-E()LMD()+

B-84
PCR series...12



Right-angle through hole type male connector for PCB
(with screw lock)
PCR-E()LMD-SL+

B-85
PCR series...13



Cable-side IDC type female connector
PCR-E()F()+

B-86
PCR series...14



Cable-side soldering type female connector
PCR-E()FS+

B-87
PCR series...15



Cable-side IDC type male connector
for mounting on a panel
PCR-E()PM()

B-88
PCR series...16



Cable-side soldering type male connector
for mounting on a panel
PCR-E()PMRS+

B-89
PCR series...17



Right-angle SMT type male connector for PCB
(with screw lock)
PCR-E()MY-SL+

B-90
PCR series...22



Straight SMT type male connector for PCB
(with screw lock)
PCR-E()MY+

B-91
PCR series...19



Straight SMT type male connector for PCB
(with screw lock)
PCR-E()MY-SL+

B-92
PCR series...20



Right-angle SMT type male connector for PCB
PCR-E()LMY+

B-93
PCR series...21



Right-angle SMT type male connector for PCB
(with screw lock)
PCR-E()LMY-SL+

B-94
PCR series...22



Cable-side soldering type female connector
PCR-S()FS+

B-95
PCR series...23



Vertical type plastic backshell
for cable extension
PCR-S()PMLA2+S

B-96
PCR series...24



Vertical type plastic backshell
(without screw lock)
PCR-V20L()

B-97
PCR series...25



Vertical type plastic backshell
(with screw lock)
PCR-LS()LA()

B-98
PCR series...26



Vertical type plastic backshell
(without screw lock)
PCR-S20LA

B-99
PCR series...27

Right-angle through hole type female connector for PCB PCR-()LFD()+

1.27 mm pitch connector

For PCB

Right-angle Through hole

RoHS

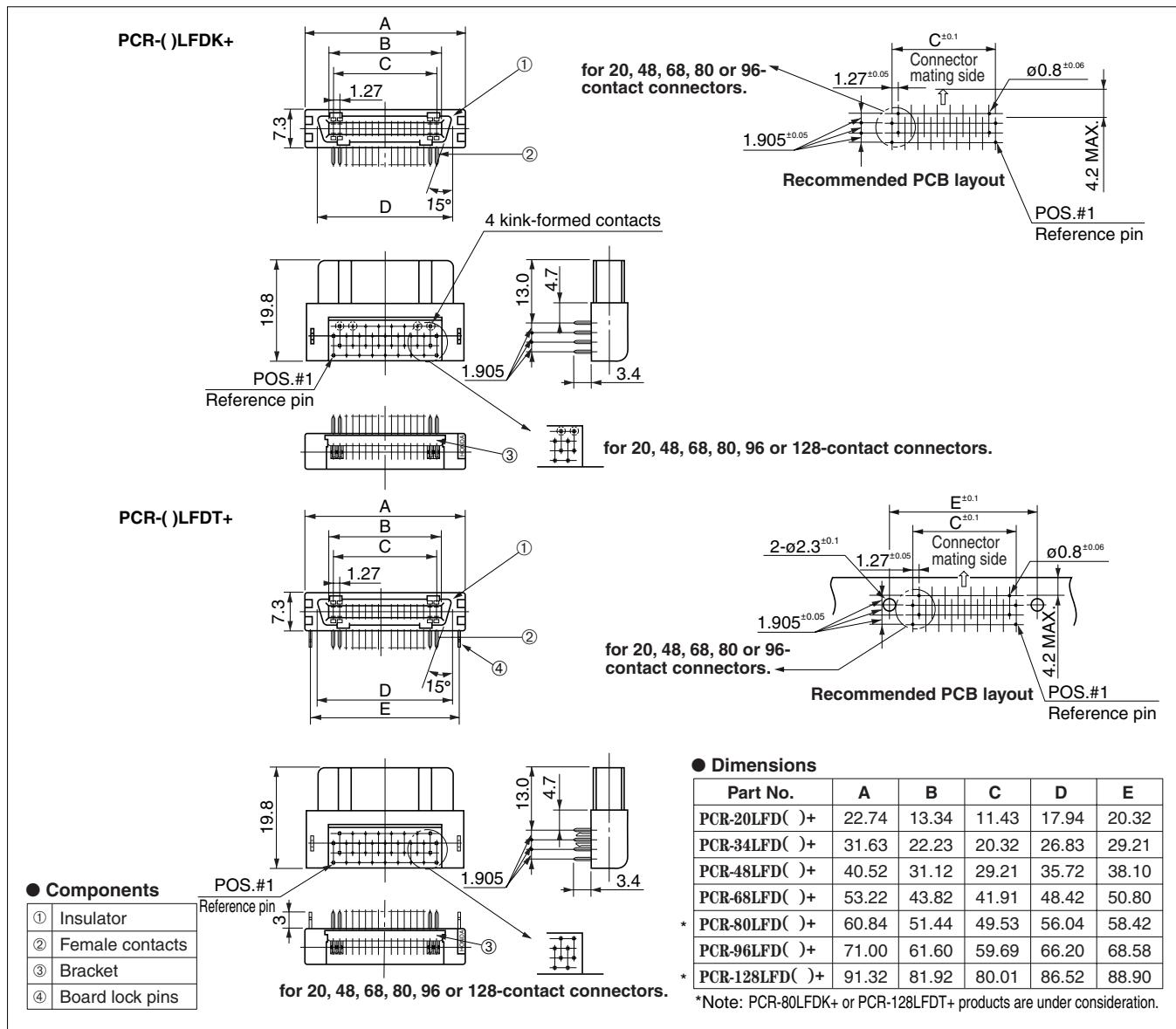


● Configuration of product Part No.

PCR- () LFD ()+

① ② ③ ④

- ① Series name
- ② No. of contacts: 20, 34, 48, 68, 80, 96 or 128
- ③ Type of connector
LFD: Right-angle through hole type, female
- ④ Board lock
K: With kink formed contacts
T: With board lock pins



Mating connectors: PCR-()MD()+, PCR-()LMD()+

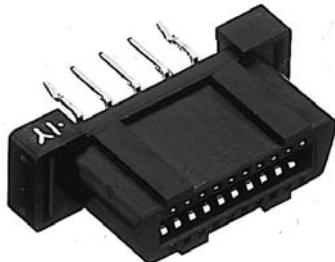
Straight through hole type female connector for PCB

PCR-()FD()+

RoHS

For PCB

Straight Through hole



● Configuration of product Part No.

PCR- () FD () +

① ② ③ ④

① Series name

② No. of contacts: 20, 34, 48, 68, 80, 96 or 128

③ Type of connector

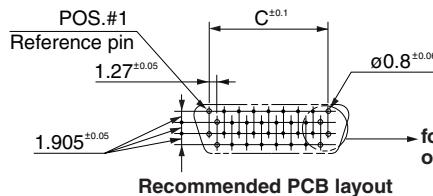
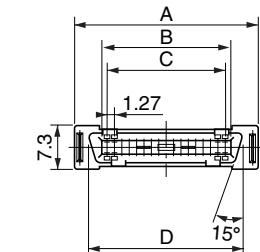
FD: Straight through hole type, female

④ Board lock

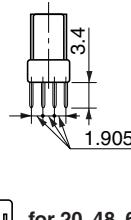
K: With kink-formed

T: With board lock pins contacts

PCR-()FDK+

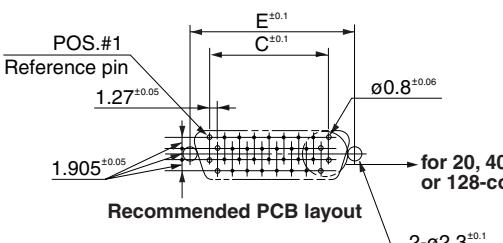
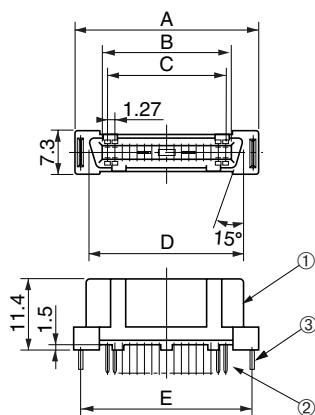


Recommended PCB layout

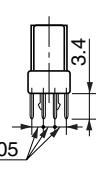


for 20, 48, 68, 80, 96 or 128-contact connectors.

PCR-()FDT+



Recommended PCB layout



for 20, 48, 68, 80, 96 or 128-contact connectors.

● Dimensions

| Part No. | A | B | C | D | E |
|---------------|-------|-------|-------|-------|-------|
| PCR-20FD()+ | 22.74 | 13.34 | 11.43 | 17.94 | 20.32 |
| PCR-34FD()+ | 31.63 | 22.23 | 20.32 | 26.83 | 29.21 |
| PCR-48FD()+ | 40.52 | 31.12 | 29.21 | 35.72 | 38.10 |
| PCR-68FD()+ | 53.22 | 43.82 | 41.91 | 48.42 | 50.80 |
| PCR-80FD()+ | 60.84 | 51.44 | 49.53 | 56.04 | 58.42 |
| PCR-96FD()+ | 71.00 | 61.60 | 59.69 | 66.20 | 68.58 |
| PCR-128FD()+ | 91.32 | 81.92 | 80.01 | 86.52 | 88.90 |

*Note: These products are under consideration.

● Components

| | |
|---|-----------------|
| ① | Insulator |
| ② | Contacts |
| ③ | Board lock pins |

Mating connectors: PCR-()MD()+, PCR-()LMD()+

Others

Wire wrapping

Crimping

Soldering

IDC

Press-in

SMT

Through hole

Right-angle through hole type male connector for PCB
PCR-()LMD()+

1.27 mm pitch connector

For PCB

Right-angle Through hole

RoHS



● Configuration of product Part No.

PCR- () LMD () +

① Series name

② No. of contacts: 20, 34, 48, 68, 80, 96 or 128

③ Type of connector

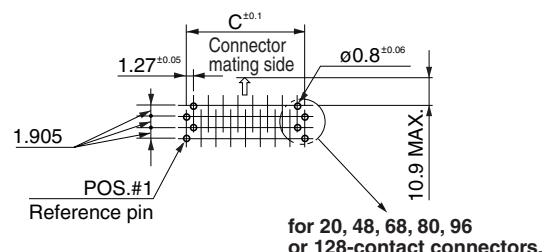
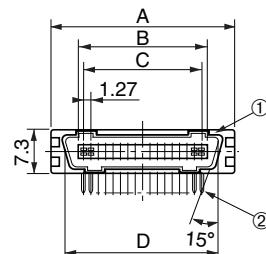
LMD: Right-angle through hole type, male

④ Board lock

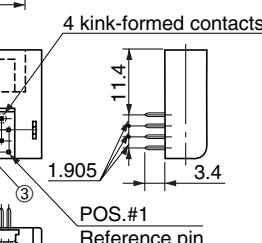
K: With kink formed contacts

T: With board lock pins

PCR-()LMDK+

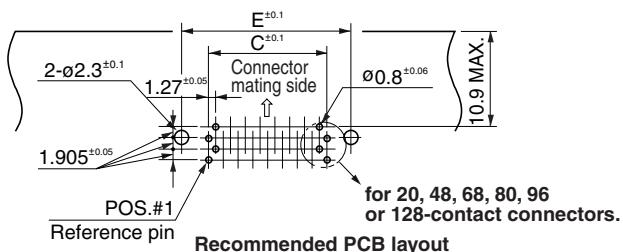
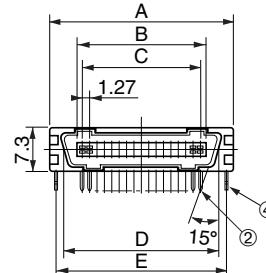


for 20, 48, 68, 80, 96
or 128-contact connectors.

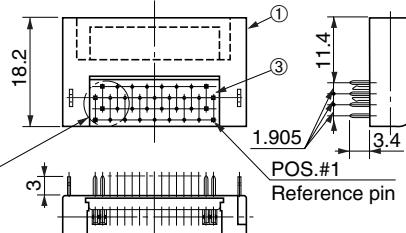


Recommended PCB layout

PCR-()LMDT+



for 20, 48, 68, 80, 96
or 128-contact connectors.



● Components

| | |
|---|-----------------|
| ① | Insulator |
| ② | contacts |
| ③ | Bracket |
| ④ | Board lock pins |

● Dimensions

| Part No. | A | B | C | D | E |
|----------------|-------|-------|-------|-------|-------|
| PCR-20LMD()+ | 22.74 | 13.14 | 11.43 | 18.14 | 20.32 |
| PCR-34LMD()+ | 31.63 | 22.03 | 20.32 | 27.03 | 29.21 |
| PCR-48LMD()+ | 40.52 | 30.92 | 29.21 | 35.92 | 38.10 |
| PCR-68LMD()+ | 53.22 | 43.62 | 41.91 | 48.62 | 50.80 |
| PCR-80LMD()+ | 60.84 | 51.24 | 49.53 | 56.24 | 58.42 |
| PCR-96LMD()+ | 71.00 | 61.40 | 59.69 | 66.40 | 68.58 |
| PCR-128LMD()+ | 91.32 | 81.72 | 80.01 | 86.72 | 88.90 |

*Note 1: These products are under consideration.

*Note 2: PCR-48LMDT+ or PCR-128LMDT+ products are under consideration.

Mating connectors: PCR-()FD()+, PCR-()LFD()+

Straight through hole type male connector for PCB

PCR-()MD()+

1.27 mm pitch connector

For PCB

Straight Through hole

RoHS



● Configuration of product Part No.

PCR- () MD ()+

① ② ③ ④

① Series name

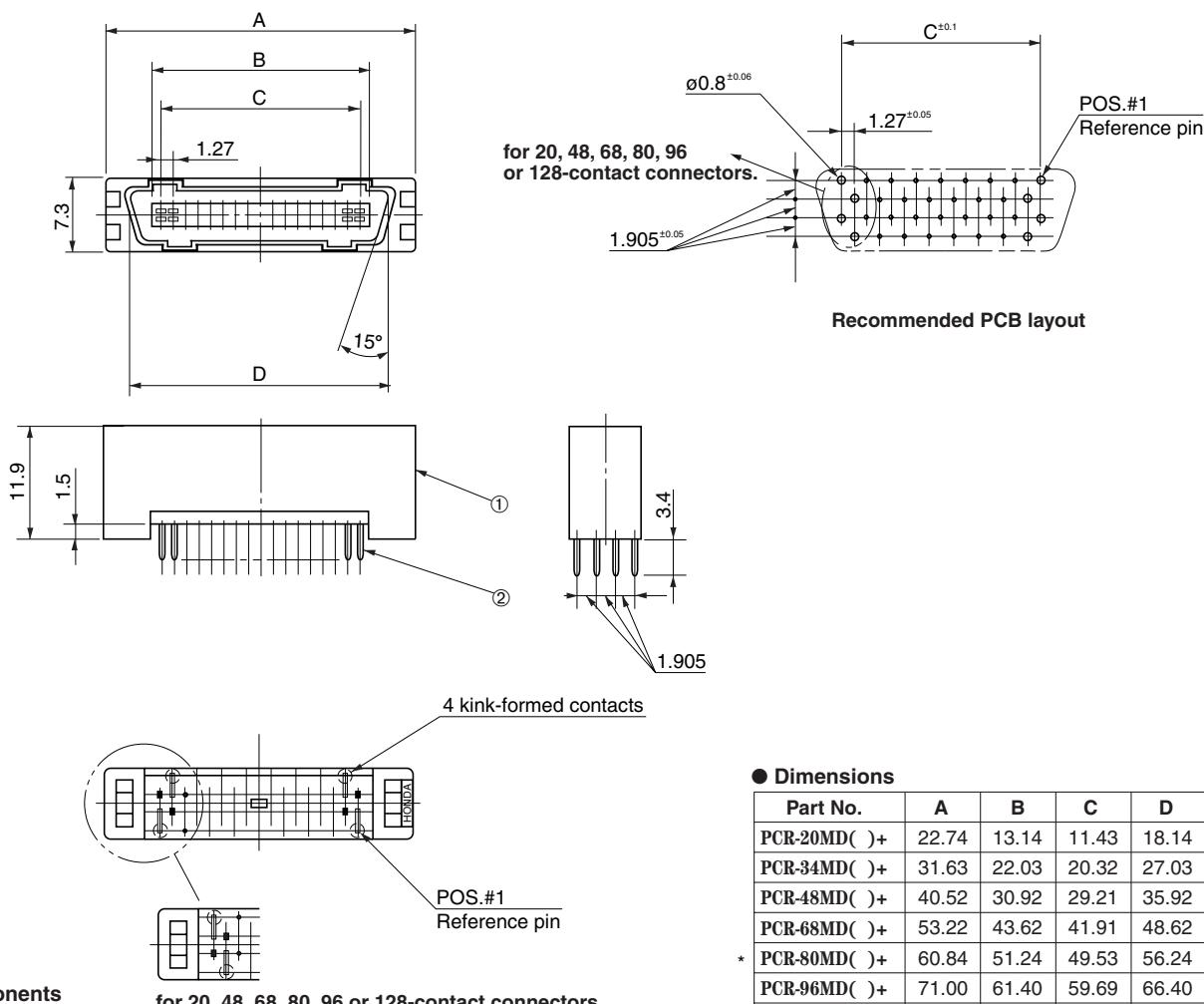
② No. of contacts: 20, 34, 48, 68, 80, 96 or 128

③ Type of connector

MD: Straight through hole type, male

④ Board lock

K: With kink-formed contacts



● Dimensions

| Part No. | A | B | C | D |
|----------------|-------|-------|-------|-------|
| PCR-20MD()+ | 22.74 | 13.14 | 11.43 | 18.14 |
| PCR-34MD()+ | 31.63 | 22.03 | 20.32 | 27.03 |
| PCR-48MD()+ | 40.52 | 30.92 | 29.21 | 35.92 |
| PCR-68MD()+ | 53.22 | 43.62 | 41.91 | 48.62 |
| * PCR-80MD()+ | 60.84 | 51.24 | 49.53 | 56.24 |
| PCR-96MD()+ | 71.00 | 61.40 | 59.69 | 66.40 |
| PCR-128MD()+ | 91.32 | 81.72 | 80.01 | 86.72 |

*Note: These products are under consideration.

Mating connectors: PCR-()FD()+, PCR-()LFD()+

Straight through hole type male connector for PCB

PCR-E()MD+

1.27 mm pitch connector

For PCB

Straight Through hole

EMI-filtered

RoHS



● Configuration of product Part No.

PCR-E () MD+

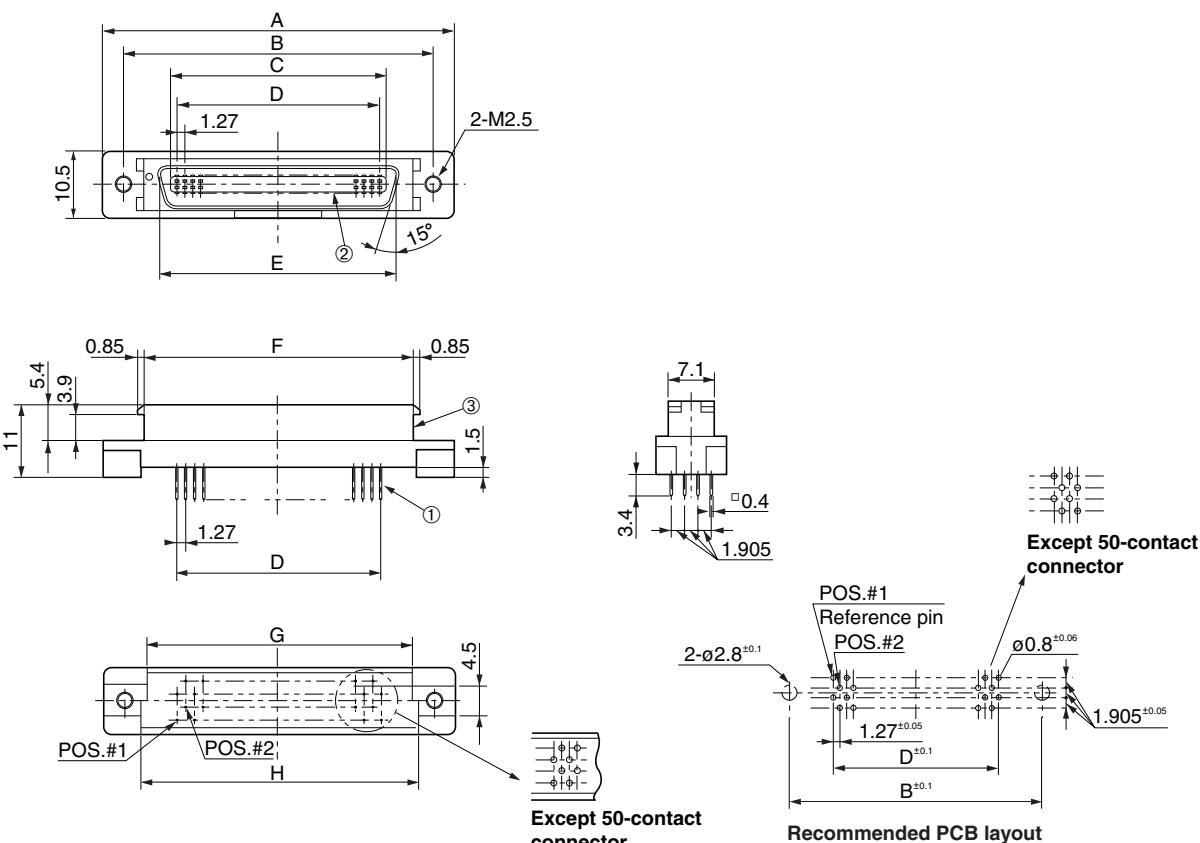
① ② ③

① Series name

② No. of contacts: 20, 28, 36, 50, 68, 80 or 96

③ Type of connector

MD: Straight through hole type, male



● Dimensions

| Part No. | A | B | C | D | E | F | G | H |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| PCR-E20MD+ | 33.40 | 27.40 | 13.20 | 11.43 | 16.45 | 21.60 | 20.43 | 22.43 |
| PCR-E28MD+ | 38.48 | 32.48 | 18.28 | 16.51 | 21.53 | 26.68 | 25.51 | 27.51 |
| PCR-E36MD+ | 43.56 | 37.56 | 23.36 | 21.59 | 26.61 | 31.76 | 30.59 | 32.59 |
| PCR-E50MD+ | 52.45 | 46.45 | 32.25 | 30.48 | 35.50 | 40.65 | 39.48 | 41.48 |
| PCR-E68MD+ | 63.88 | 57.88 | 43.68 | 41.91 | 46.93 | 52.08 | 50.91 | 52.91 |
| PCR-E80MD+ | 71.50 | 65.50 | 51.30 | 49.53 | 54.55 | 59.70 | 58.53 | 60.53 |
| PCR-E96MD+ | 81.66 | 75.66 | 61.46 | 59.69 | 64.71 | 69.86 | 68.69 | 70.69 |

● Components

| | |
|---|-----------|
| ① | Contacts |
| ② | Insulator |
| ③ | Shell |

Mating connectors: PCR series cable-side IDC type female connector

PCR series cable-side soldering type female connector

Accessories: Dust-proof cap, PCS-E()C

Right-angle through hole type male connector for PCB
PCR-E()LMD()+

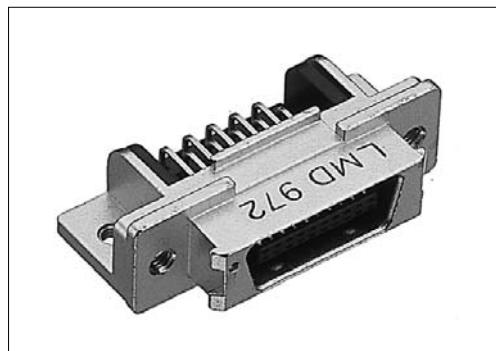
1.27 mm pitch connector

For PCB

Right-angle Through hole

EMI-filtered

RoHS



● Configuration of product Part No.

PCR-E () LMD () +

① ② ③ ④

① Series name

② No. of contacts: 20, 28, 36, 50, 68 or 96

③ Type of connector

LMD: Right-angle through hole type, male connector

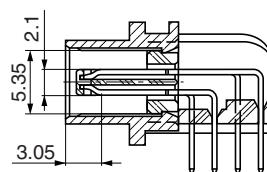
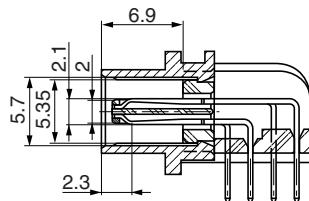
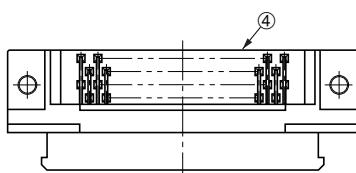
④ Thickness of panel

Blank: $t = 1.6$ mm MAX.

A : $t = 2.1$ mm MAX.

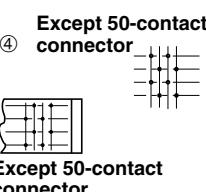
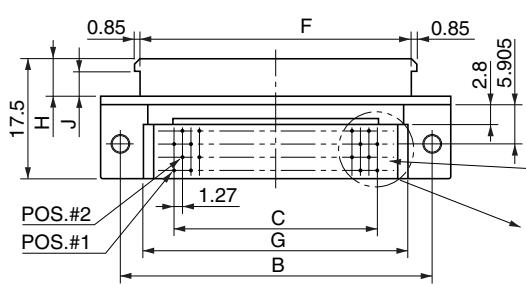
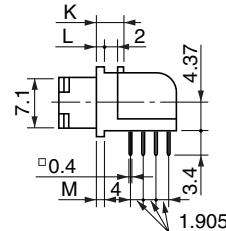
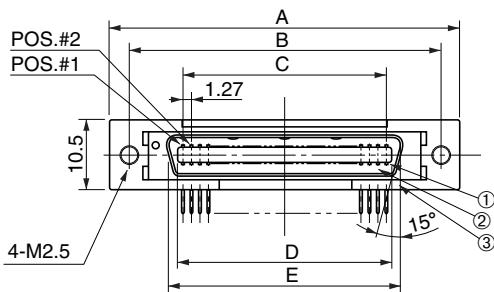
B : $t = 2.1$ mm MAX., electrostatic noise resistant (ESD resistant)

C : $t = 1.6$ mm MAX., electrostatic noise resistant (ESD resistant)

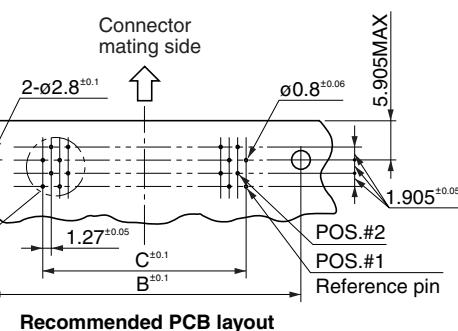


Form I contacts

Form II contacts



Except 50-contact connector



Recommended PCB layout

● Dimensions

| Part No. | A | B | C | D | E | F | G |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| PCR-E20LMD()+ | 33.40 | 27.40 | 11.43 | 13.20 | 16.45 | 21.60 | 20.23 |
| PCR-E28LMD()+ | 38.48 | 32.48 | 16.51 | 18.28 | 21.53 | 26.68 | 25.31 |
| PCR-E36LMD()+ | 43.56 | 37.56 | 21.59 | 23.36 | 26.61 | 31.76 | 30.39 |
| PCR-E50LMD()+ | 52.45 | 46.45 | 30.48 | 32.25 | 35.50 | 40.65 | 39.28 |
| PCR-E68LMD()+ | 63.88 | 57.88 | 41.91 | 43.68 | 46.93 | 52.08 | 50.71 |
| PCR-E96LMD()+ | 81.66 | 75.66 | 59.69 | 61.46 | 64.71 | 69.86 | 68.49 |

| Part No. | H | J | K | L | M | Contact length | Panel thickness |
|---------------|-----|-----|-----|-----|-----|---------------------------|-----------------|
| PCR-E()LMD+ | 5.4 | 3.9 | 4.1 | 1.3 | 1.3 | Refer to Form I contacts | 1.6mm MAX. |
| PCR-E()LMDA+ | 5.9 | 4.4 | 3.6 | 0.8 | 0.8 | | 2.1mm MAX. |
| PCR-E()LMDB+ | | | | | | Refer to Form II contacts | |
| PCR-E()LMDC+ | 5.4 | 3.9 | 4.1 | 1.3 | 1.3 | | 1.6mm MAX. |

● Components

| | |
|---|-----------|
| ① | Contacts |
| ② | Insulator |
| ③ | Shell |
| ④ | Bracket |

Mating connectors: PCR series cable-side IDC type female connector

PCR series cable-side soldering type female connector

Accessories: Dust-proof cap, PCS-E()C

Right-angle through hole type male connector for PCB (with screw lock) PCR-E()LMD-SL+

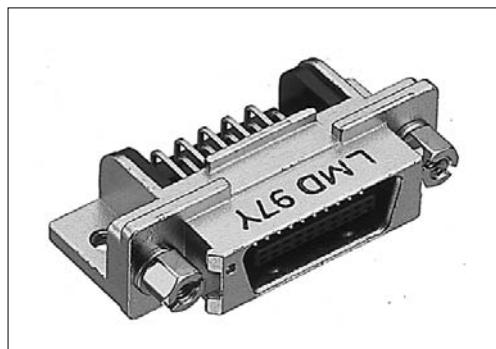
1.27 mm pitch connector

For PCB

Right-angle Through hole

EMI-filtered

RoHS



● Configuration of product Part No.

PCR-E () LMD- SL+

① ② ③ ④

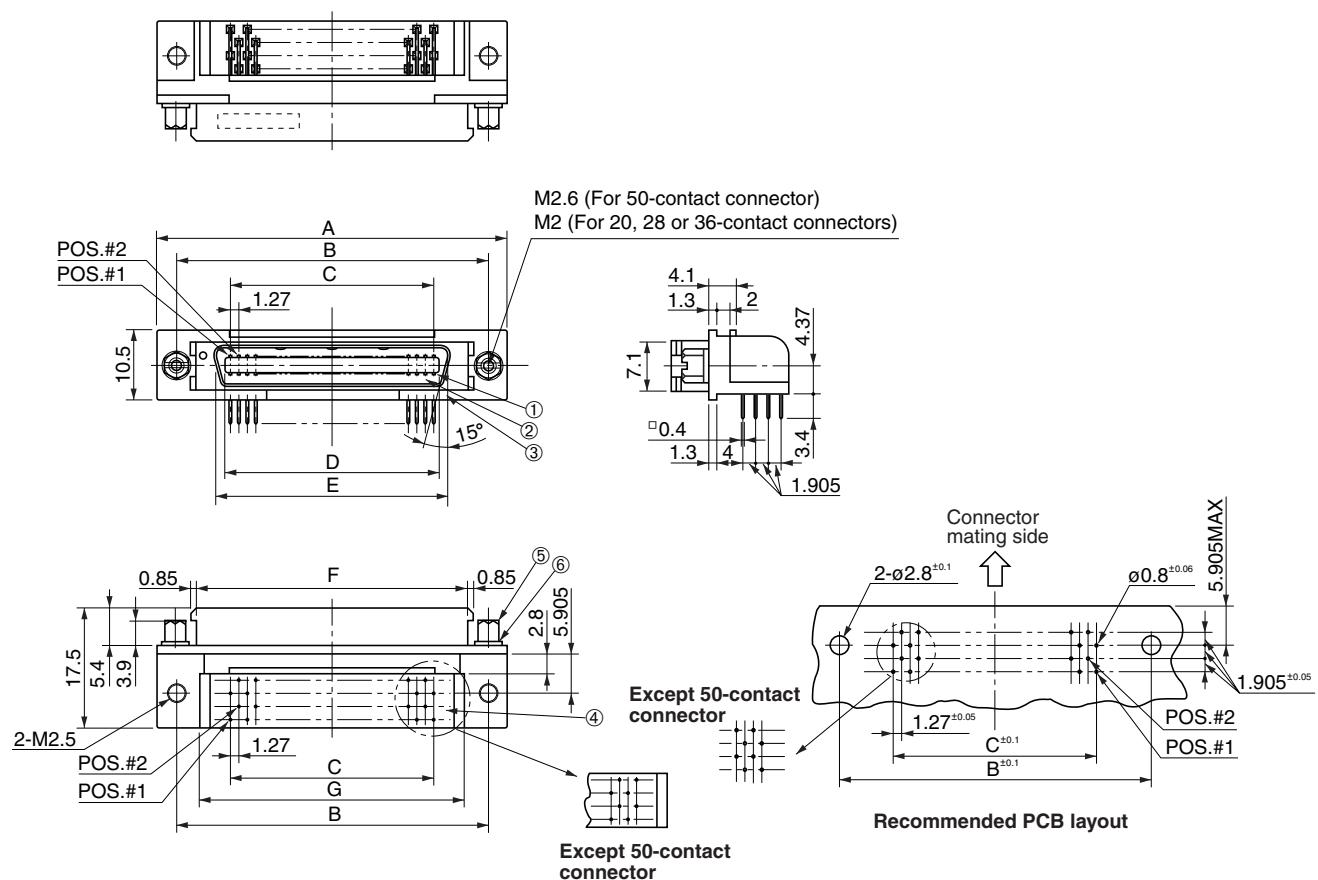
① Series name

② No. of contacts: 20, 28, 36 or 50

③ Type of connector

LMD: Right-angle through hole type, male connector

④ With screw locks



● Components

| | |
|---|----------------|
| ① | Contacts |
| ② | Insulator |
| ③ | Shell |
| ④ | Bracket |
| ⑤ | Screw locks |
| ⑥ | Spring washers |

● Dimensions

| Part No. | A | B | C | D | E | F | G |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| PCR-E20LMD-SL+ | 33.40 | 27.40 | 11.43 | 13.20 | 16.45 | 21.60 | 20.23 |
| PCR-E28LMD-SL+ | 38.48 | 32.48 | 16.51 | 18.28 | 21.53 | 26.68 | 25.31 |
| PCR-E36LMD-SL+ | 43.56 | 37.56 | 21.59 | 23.36 | 26.61 | 31.76 | 30.39 |
| PCR-E50LMD-SL+ | 52.45 | 46.45 | 30.48 | 32.25 | 35.50 | 40.65 | 39.28 |

Mating connectors: PCR series cable-side IDC type female connector

PCR series cable-side soldering type female connector

Accessories: Dust-proof cap, PCS-E()C

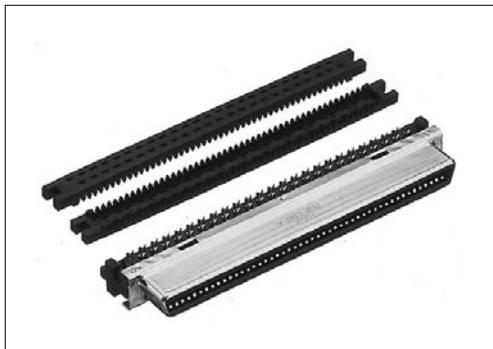
**Cable-side IDC type female connector
PCR-E()F()+**

1.27 mm pitch connector

For cable

IDC

RoHS



● Configuration of product Part No.

PCR-E () F()+

① ② ③

① Series name

② No. of contacts: 20, 28, 36, 50, 68, 80, or 96

③ Cable sizes for reference purposes (In case the cable sheath is made of PVC resin)

F : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.8-1 mm. For loose wire.

FA: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.5-0.65 mm. For loose wire.

FB: AWG#30(7 / 0.1). Outside diameter of wire is 0.5-0.65 mm. For loose wire.

FC: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). For flat cable, t = 1.0 mm MAX. (See Note #1)

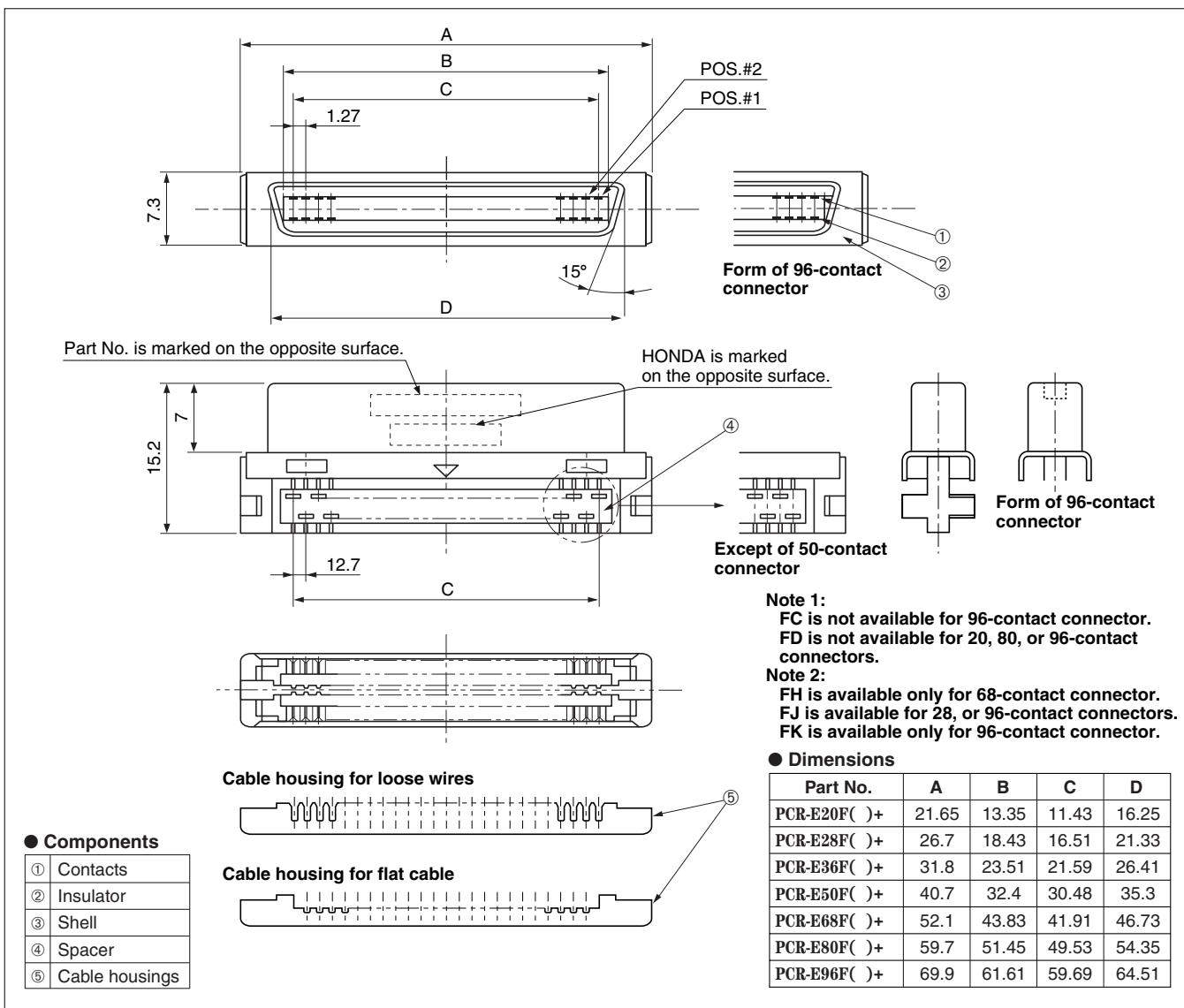
FD: AWG#30(7 / 0.1). For flat cable, t = 1.0 mm MAX. (See Note #1)

FH: AWG#32(7 / 0.08). Outside diameter of wire is 0.35-0.5 mm. For loose wire. (See Note #2)

FK : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.65-0.8 mm. For loose wire.

(See Note #2)

FK: AWG#30(7 / 0.1). Outside diameter of wire is 0.65-0.8 mm. For loose wire. (See Note #2)



Mating connectors: PCR-E series PCB-side right-angle through hole type or SMT type connector

PCR-E series PCB-side straight through hole type or SMT type connector

Tool: (Refer to page Tool-12)

Cable-side soldering type female connector

PCR-E()FS+

1.27 mm pitch connector

For cable
Soldering

RoHS



● Configuration of product Part No.

PCR-E () FS+

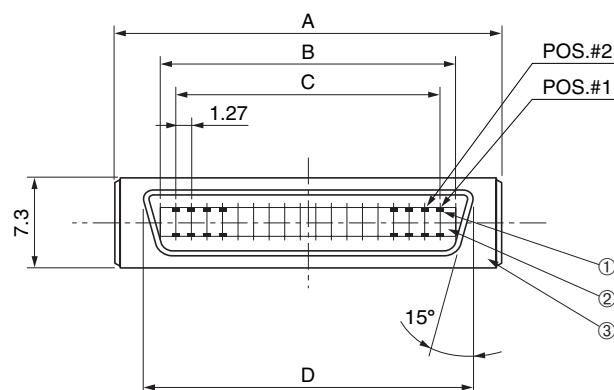
① ② ③

① Series name

② No. of contacts: 20, 28, 36, 50, 68 or 96

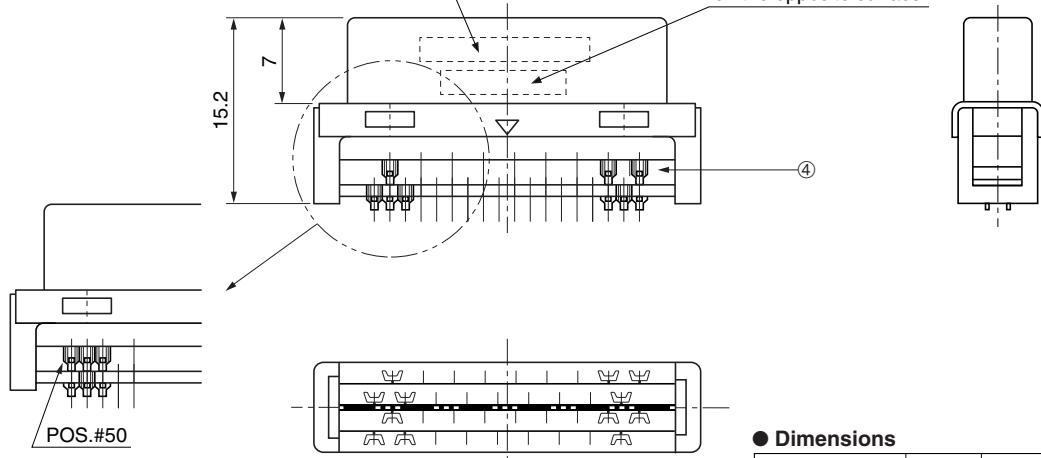
③ Type of connector

FS: Soldering type, female, AWG#20 MAX.



Part No. is marked on the opposite surface.

HONDA is marked on the opposite surface.



For 50-contact connector

● Components

| | |
|---|-----------|
| ① | Contacts |
| ② | Insulator |
| ③ | Shell |
| ④ | Spacer |

● Dimensions

| Part No. | A | B | C | D |
|------------|-------|-------|-------|-------|
| PCR-E20FS+ | 21.65 | 13.35 | 11.43 | 16.25 |
| PCR-E28FS+ | 26.70 | 18.43 | 16.51 | 21.33 |
| PCR-E36FS+ | 31.80 | 23.51 | 21.59 | 26.41 |
| PCR-E50FS+ | 40.70 | 32.40 | 30.48 | 35.30 |
| PCR-E68FS+ | 52.10 | 43.83 | 41.91 | 46.73 |
| PCR-E96FS+ | 69.90 | 61.61 | 56.69 | 64.51 |

Mating connectors: PCR-E series PCB-side right-angle through hole type or SMT type connector

PCR-E series PCB-side straight through hole type or SMT type connector

**Cable-side IDC type male connector
for mounting on a panel
PCR-E()PM()**

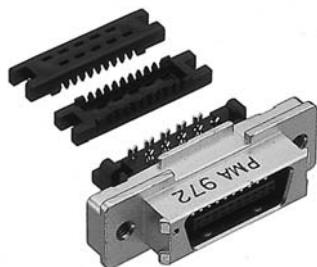
1.27 mm pitch connector

For panel

IDC

EMI-filtered

RoHS



● Configuration of product Part No.

PCR-E () PM ()

① ② ③ ④

① Series name

② No. of contacts: 20, 28, 36, 50, 68 or 96

③ Type of connector: Panel mount type, male

④ Cable sizes for reference purposes (In case the cable sheath is made of PVC resin)

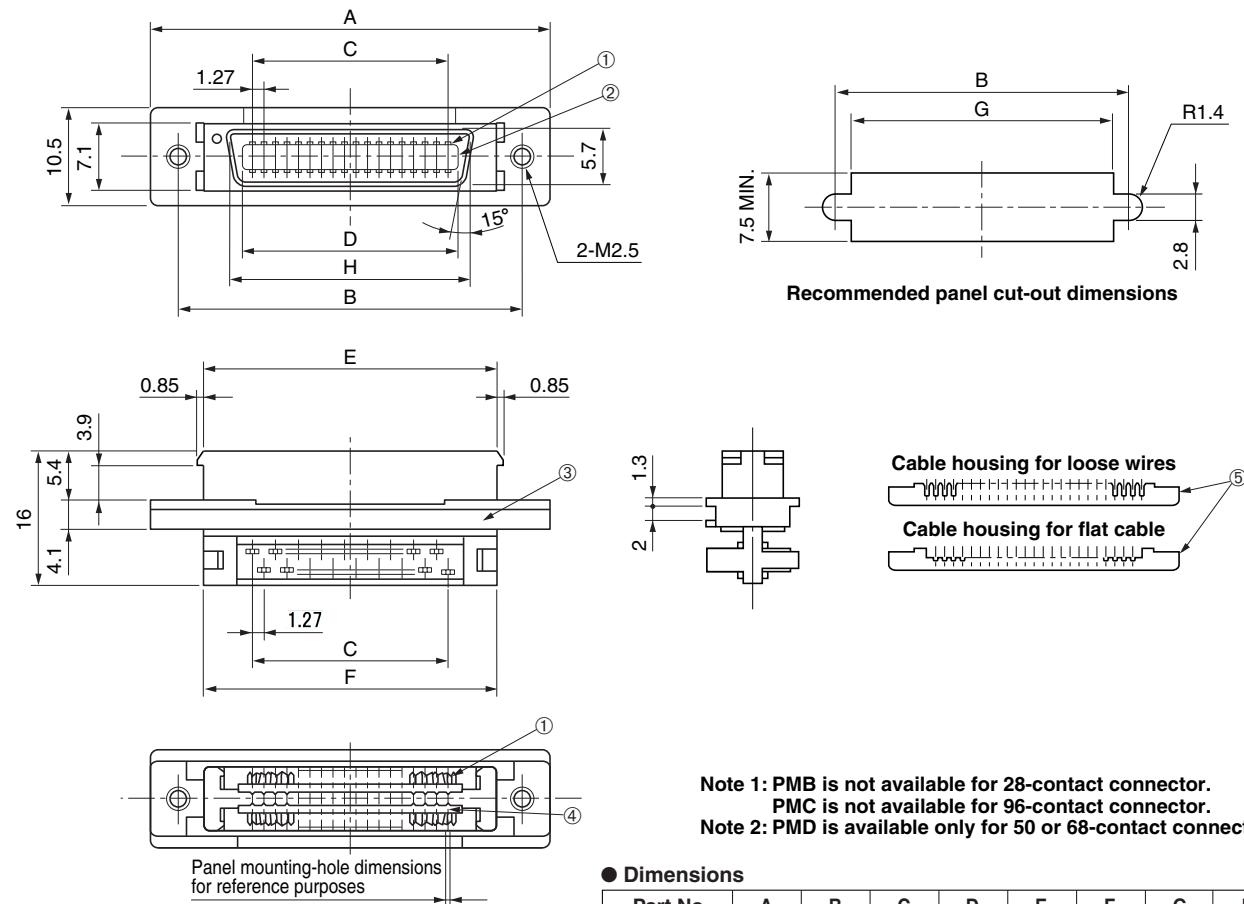
PM : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.8-1 mm. For loose wire.

PMA: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.5-0.65 mm. For loose wire.

PMB: AWG#30(7 / 0.1). Outside diameter of wire is 0.5-0.65 mm. For loose wire. (See Note #1)

PMC: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). IDC for fusible cable. (See Note #1)

PMD: AWG#30(7 / 0.1). IDC for fusible cable. (See Note #2)



Note 1: PMB is not available for 28-contact connector.

PMC is not available for 96-contact connector.

Note 2: PMD is available only for 50 or 68-contact connectors.

● Dimensions

| Part No. | A | B | C | D | E | F | G | H |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| PCR-E20PM() | 33.40 | 27.40 | 11.43 | 13.20 | 21.60 | 21.65 | 23.80 | 16.45 |
| PCR-E28PM() | 38.48 | 32.48 | 16.51 | 18.28 | 26.68 | 26.70 | 28.90 | 21.53 |
| PCR-E36PM() | 43.56 | 37.56 | 21.59 | 23.36 | 31.76 | 31.80 | 34.00 | 26.61 |
| PCR-E50PM() | 52.45 | 46.45 | 30.48 | 32.25 | 40.65 | 40.70 | 42.90 | 35.50 |
| PCR-E68PM() | 63.88 | 57.88 | 41.91 | 43.68 | 52.08 | 52.10 | 54.60 | 46.93 |
| PCR-E96PM() | 81.66 | 75.66 | 59.69 | 61.46 | 69.86 | 69.90 | 72.10 | 64.71 |

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E()C

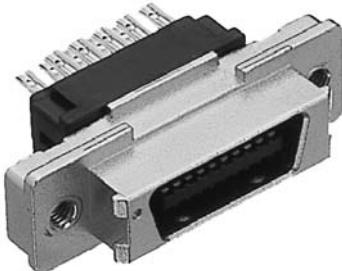
Tool: (Refer to page Tool-12)

Cable-side soldering type male connector for mounting on a panel PCR-E()PMRS+

1.27 mm pitch connector

RoHS

For panel
Soldering
EMI-filtered



● Configuration of product Part No.

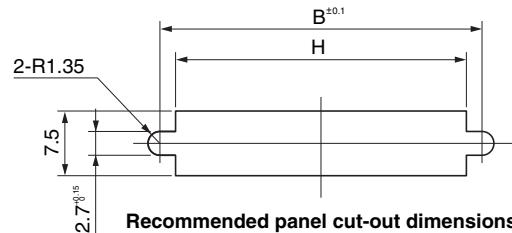
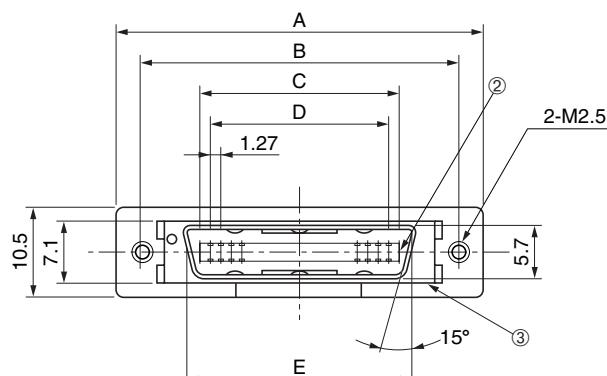
PCR-E () PMRS+

① ② ③

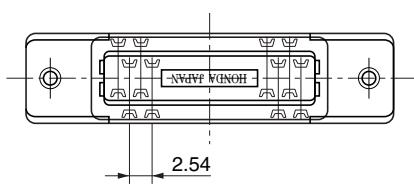
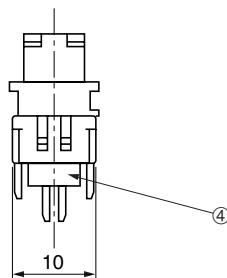
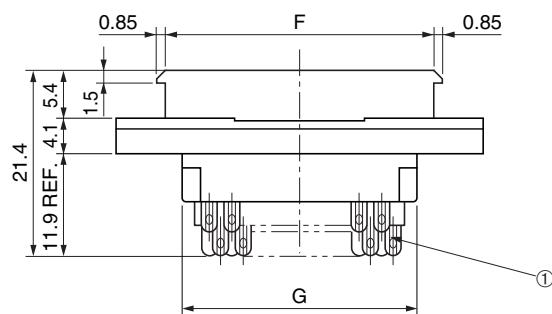
① Series name

② No. of contacts: 20 or 28

③ Type of connector: Panel mount type, male
Outside diameter of wire is 2.2 mm MAX.



Recommended panel cut-out dimensions



● Components

| | |
|---|-----------|
| ① | Contacts |
| ② | Insulator |
| ③ | Shell |
| ④ | Bushing |

● Dimensions

| Part No. | A | B | C | D | E | F | G | H |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| PCR-E20PMRS+ | 33.40 | 27.40 | 13.20 | 11.43 | 16.45 | 21.60 | 19.40 | 23.80 |
| PCR-E28PMRS+ | 38.48 | 32.48 | 18.28 | 16.51 | 21.53 | 26.68 | 24.45 | 28.88 |

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E()C

Straight SMT type male connector for PCB

PCR-E()MY+

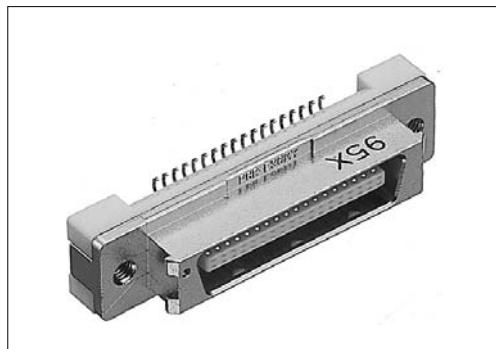
1.27 mm pitch connector

For PCB

Straight SMT

EMI-filtered

RoHS

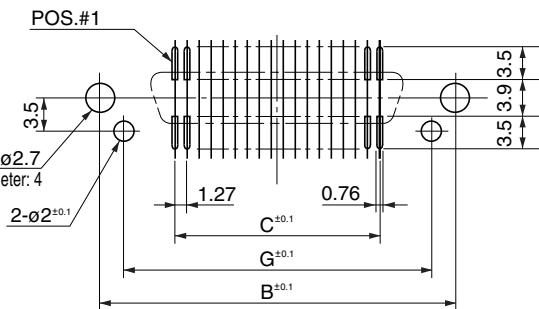
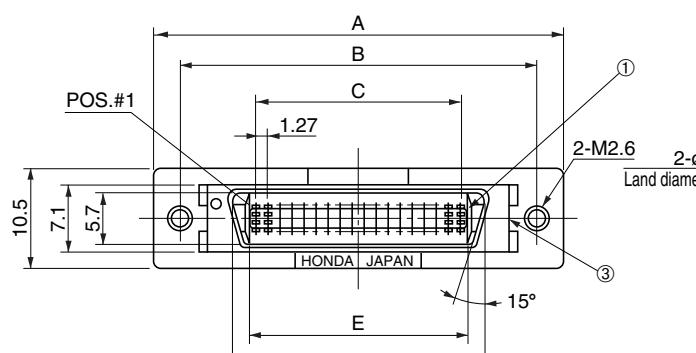


● Configuration of product Part No.

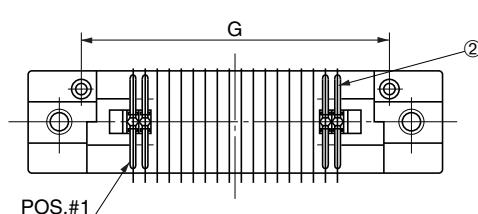
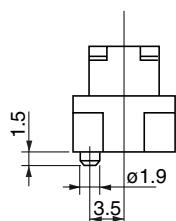
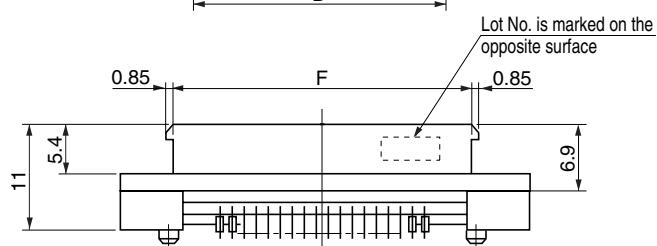
PCR-E () MY+

① ② ③

- ① Series name
- ② No. of contacts: 20 or 36
- ③ Type of connector
MY: Straight SMT type, male



Recommended PCB layout



● Components

| | |
|---|-----------|
| ① | Insulator |
| ② | Contacts |
| ③ | Shell |

● Dimensions

| Part No. | A | B | C | D | E | F | G |
|------------|-------|-------|-------|-------|-------|-------|-------|
| PCR-E20MY+ | 33.40 | 27.40 | 11.43 | 16.45 | 13.20 | 21.60 | 22.32 |
| PCR-E36MY+ | 43.56 | 37.56 | 21.59 | 26.61 | 23.36 | 31.76 | 32.48 |

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E()CP

**Straight SMT type male connector for PCB
(with screw lock)
PCR-E()MY-SL+**

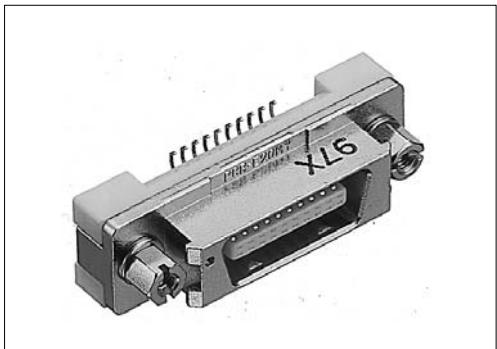
RoHS

1.27 mm pitch connector

For PCB

Straight SMT

EMI-filtered

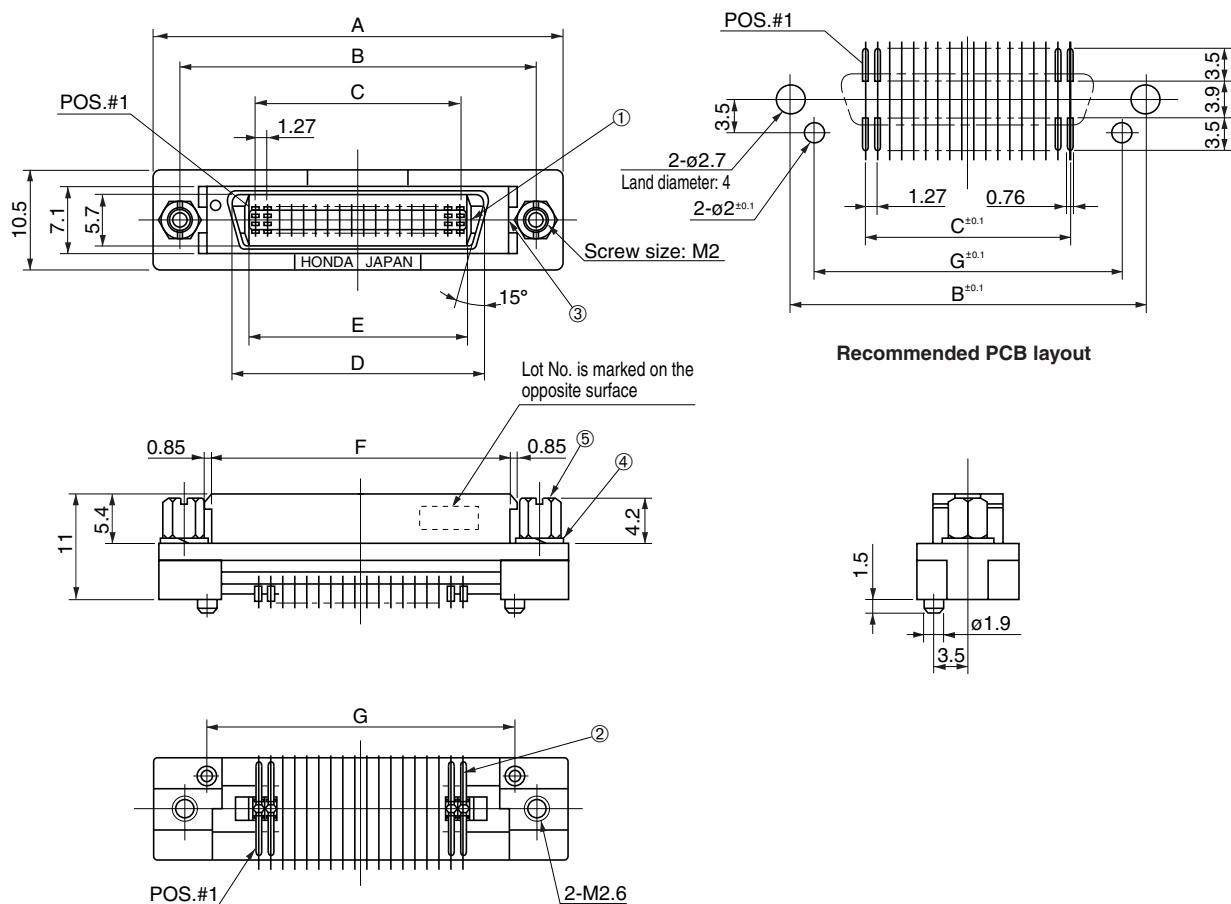


● Configuration of product Part No.

PCR-E () MY- SL+

① ② ③ ④

- ① Series name
- ② No. of contacts: 20 or 36
- ③ Type of connector
- MY: Straight SMT type, male
- ④ With screw locks



Recommended PCB layout

● Components

| | |
|---|----------------|
| ① | Insulator |
| ② | Contacts |
| ③ | Shell |
| ④ | Spring washers |
| ⑤ | Screw locks |

● Dimensions

| Part No. | A | B | C | D | E | F | G |
|---------------|-------|-------|-------|-------|-------|-------|-------|
| PCR-E20MY-SL+ | 33.40 | 27.40 | 11.43 | 16.45 | 13.20 | 21.60 | 22.32 |
| PCR-E36MY-SL+ | 43.56 | 37.56 | 21.59 | 26.61 | 23.36 | 31.76 | 32.48 |

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E()CP

Right-angle SMT type male connector for PCB

PCR-E()LMY+

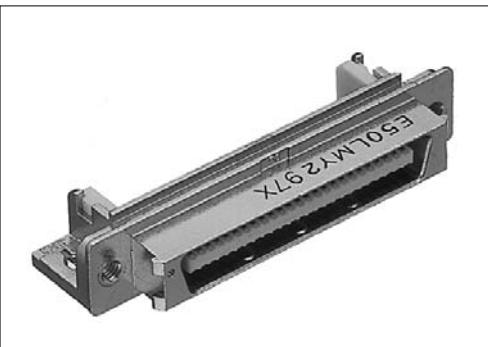
1.27 mm pitch connector

For PCB

Right-angle SMT

EMI-filtered

RoHS

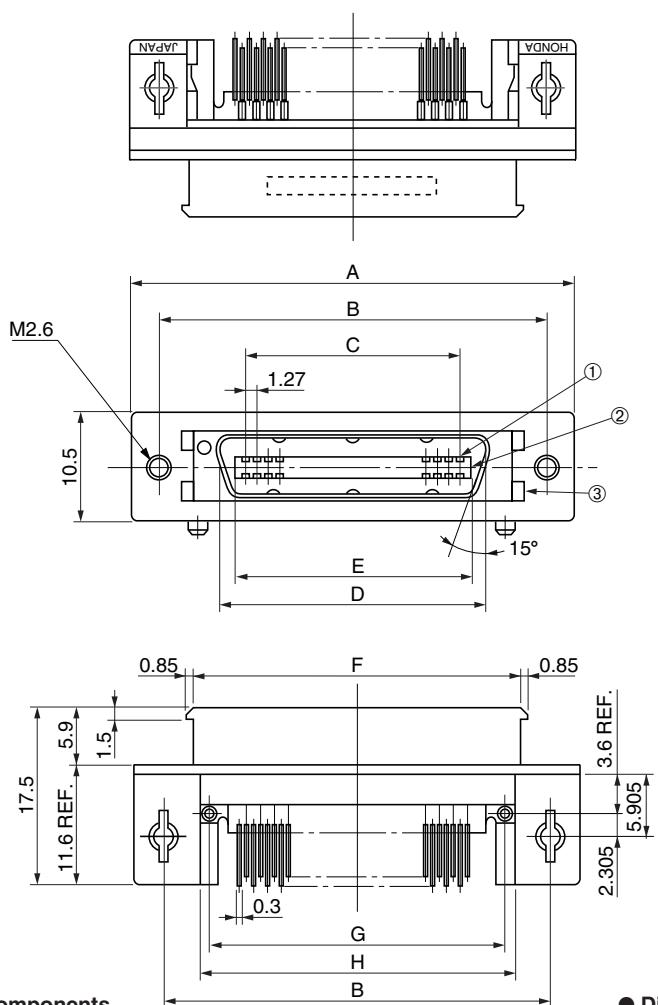


● Configuration of product Part No.

PCR-E () LMY+

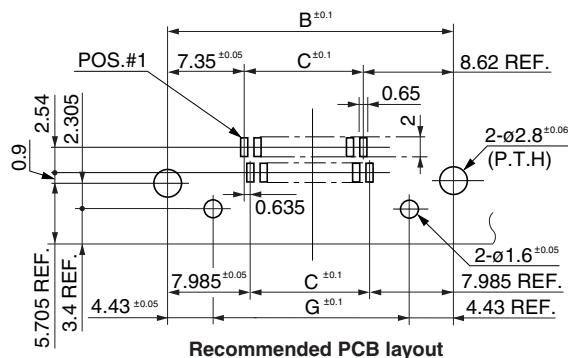
① ② ③

- ① Series name
- ② No. of contacts: 36 or 50
- ③ Type of connector
LMY: Right-angle SMT type, male

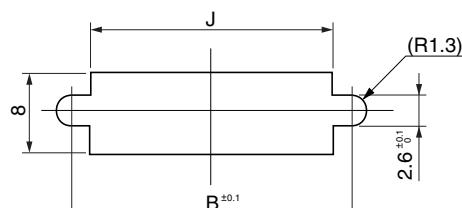
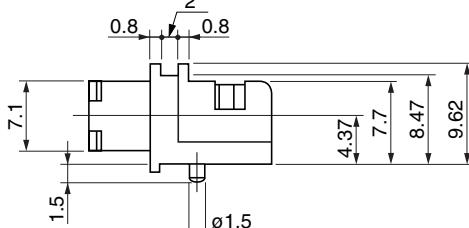


● Components

| | |
|---|-----------|
| ① | Contacts |
| ② | Insulator |
| ③ | Shell |



Recommended PCB layout



Recommended panel cut-out dimensions

● Dimensions

| Part No. | A | B | C | D | E | F | G | H | J |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PCR-E36LMY+ | 43.56 | 37.56 | 21.59 | 26.61 | 23.36 | 31.76 | 28.70 | 30.39 | 34.00 |
| PCR-E50LMY+ | 52.45 | 46.45 | 30.48 | 35.50 | 32.25 | 40.65 | 37.59 | 39.28 | 42.89 |

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E()CP

Right-angle SMT type male connector for PCB
(with screw lock)
PCR-E()LMY-SL+

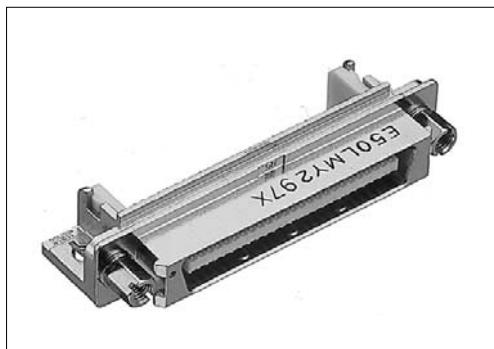
RoHS

1.27 mm pitch connector

For PCB

Right-angle SMT

EMI-filtered

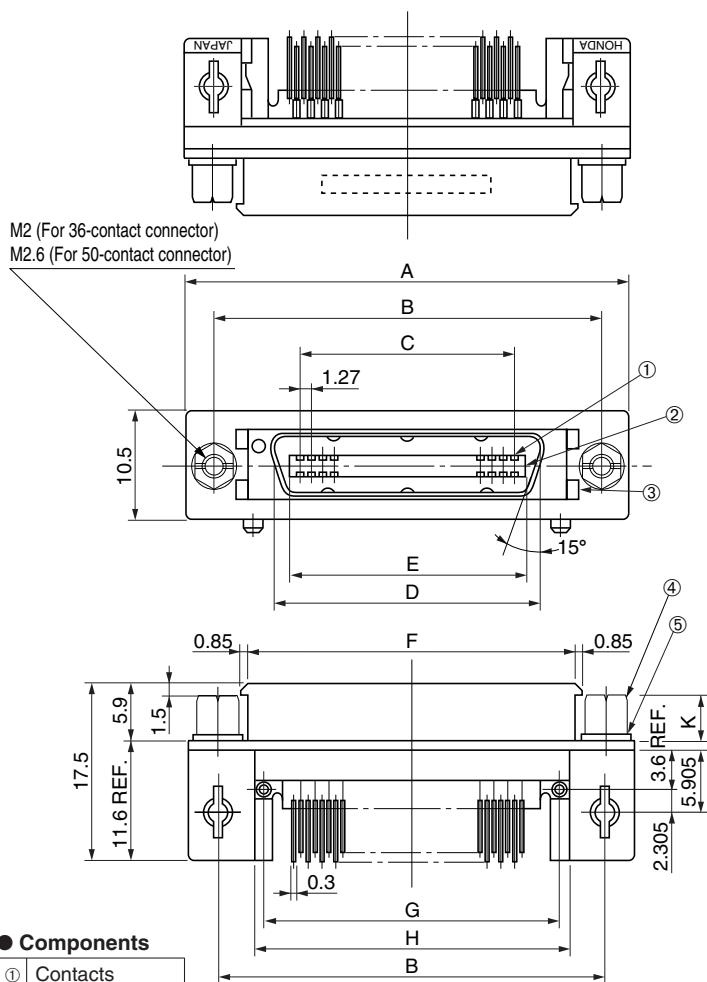


● Configuration of product Part No.

PCR-E () LMY- SL+

① ② ③ ④

- ① Series name
- ② No. of contacts: 36 or 50
- ③ Type of connector
- LMY: Right-angle SMT type, male
- ④ With screw locks

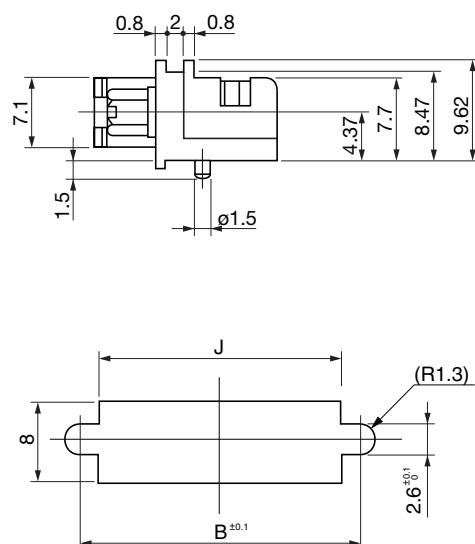
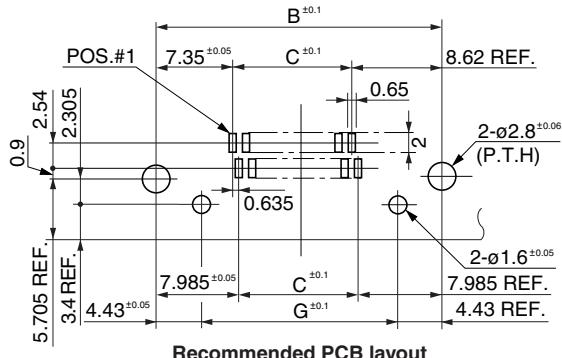


● Components

| | |
|---|----------------|
| ① | Contacts |
| ② | Insulator |
| ③ | Shell |
| ④ | Screw locks |
| ⑤ | Spring washers |

● Dimensions

| Part No. | A | B | C | D | E | F | G | H | J | K |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| PCR-E36LMY-SL+ | 43.56 | 37.56 | 21.59 | 26.61 | 23.36 | 31.76 | 28.70 | 30.39 | 34.00 | 4.20 |
| PCR-E50LMY-SL+ | 52.45 | 46.45 | 30.48 | 35.50 | 32.25 | 40.65 | 37.59 | 39.28 | 42.89 | 5.20 |



Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E()CP

Cable-side soldering type female connector

PCR-S()FS+

1.27 mm pitch connector

For cable
Soldering
EMI-Filtered

RoHS

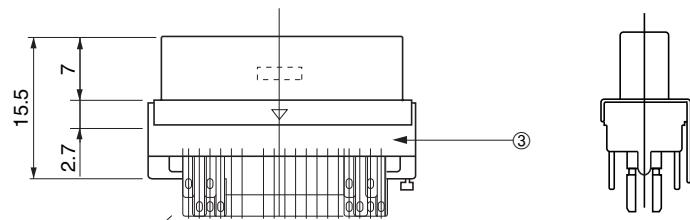
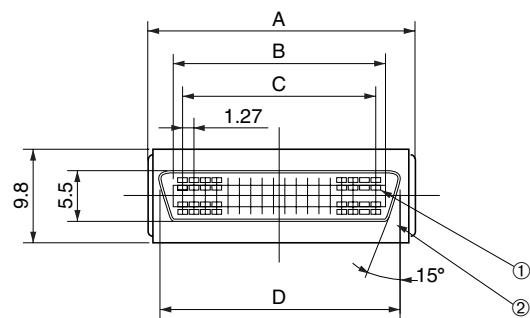


● Configuration of product Part No.

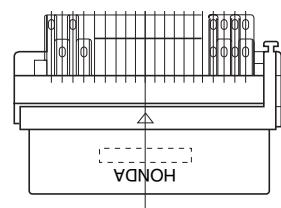
PCR-S () FS+

① ② ③

- ① Series name
- ② No. of contacts: 20, 28, 36 or 50
- ③ Type of connector
FS: Soldering type, female, AWG#20 MAX.



For 50-contact connector



● Dimensions

| Part No. | A | B | C | D |
|------------|-------|-------|-------|-------|
| PCR-S20FS+ | 19.40 | 13.35 | 11.43 | 16.25 |
| PCR-S28FS+ | 24.48 | 18.43 | 16.51 | 21.33 |
| PCR-S36FS+ | 29.56 | 23.51 | 21.59 | 26.41 |
| PCR-S50FS+ | 38.45 | 32.40 | 30.48 | 35.30 |

● Components

| | |
|---|-----------|
| ① | Contacts |
| ② | Shell |
| ③ | Insulator |

Mating connectors: PCR-E series PCB-side right-angle through hole type or SMT type connector

PCR-E series PCB-side straight through hole type or SMT type connector

Vertical type plastic backshell for cable extension

PCR-S()PMLA2+S

1.27 mm pitch connector

Backshell

Vertical type

RoHS



● Configuration of product Part No.

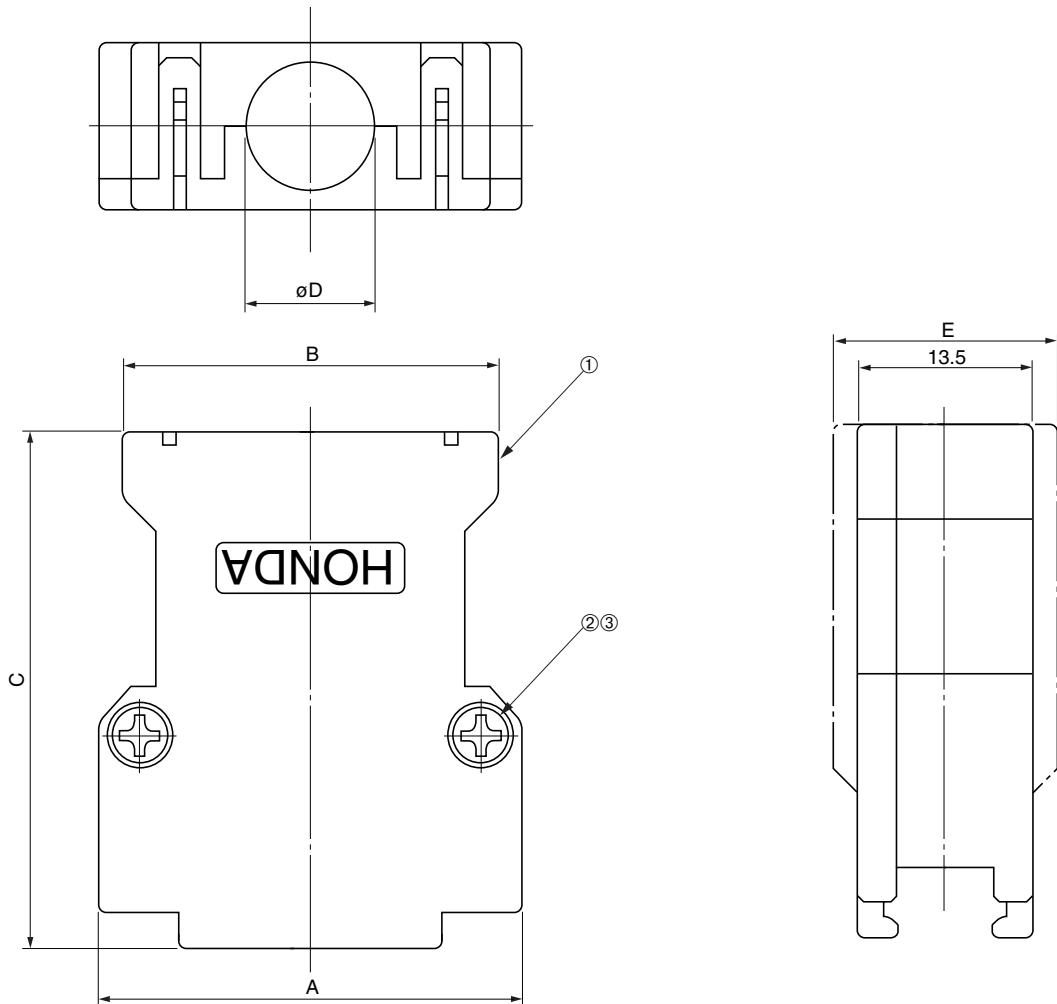
PCR-S () PMLA2+S

① ② ③

① Series name

② No. of contacts: 20 or 28

③ Vertical type backshell for PCR-E()PMRS-SL+



● Components

| | |
|---|----------|
| ① | Housing |
| ② | Screw |
| ③ | Hex nuts |

● Dimensions

| Part No. | A | B | C | D | E |
|----------------|------|------|------|------|------|
| PCR-S20PMLA2+S | 33.4 | 28.4 | 42.0 | 10.4 | — |
| PCR-S28PMLA2+S | 38.5 | 33.5 | 43.0 | 14.5 | 16.5 |

Mating connectors: PCR-E()PMRS-SL+

Vertical type plastic backshell (without screw lock)
PCR-V20L()

1.27 mm pitch connector

Backshell

Vertical type

RoHS



● Configuration of product Part No.

PCR-V 20 L ()

① ② ③

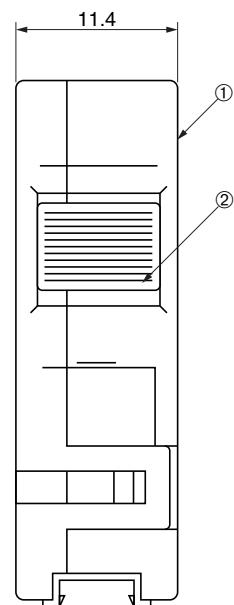
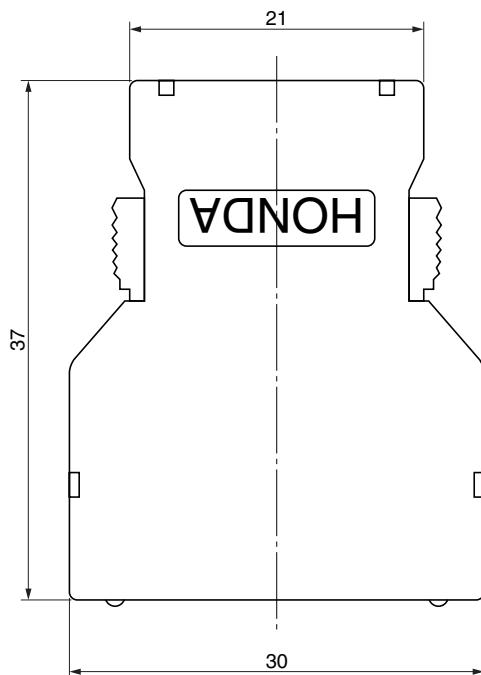
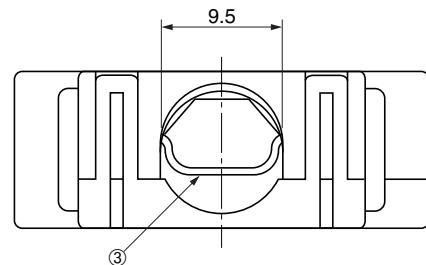
① Series name

② No. of contacts: 20

③ For use with specific cable sizes

A: Outside diameter of cable is 6 mm.

B: Outside diameter of cable is 8 mm.



● Components

| | |
|---|---------------|
| ① | Housing |
| ② | Lock hardware |
| ③ | Clamp |

● Dimensions

| Part No. | For use with specific cable sizes (outside diameter) |
|-----------|--|
| PCR-V20LA | ø6 |
| PCR-V20LB | ø8 |

Mating connectors: PCR-E20F()+, PCR-E20FS+

Vertical type plastic backshell (with screw lock)

PCR-LS()LA()

1.27 mm pitch connector

Backshell

Vertical type

RoHS



● Configuration of product Part No.

PCR-LS () LA()

① ② ③

① Series name

② No. of contacts: 20, 28, 36 or 50

③ Vertical type backshell for PCR-S()FS+

PCR-LS20LA1 : Max outside diameter of cable is 10 mm.

PCR-LS20LA : Max outside diameter of cable is 10 mm.

PCR-LS28LA : Max outside diameter of cable is 14.5 mm.

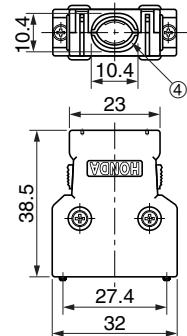
PCR-LS36LA : Max outside diameter of cable is 15 mm.

PCR-LS50LA : Max outside diameter of cable is 16 mm.

PCR-LS20LA1

● Components

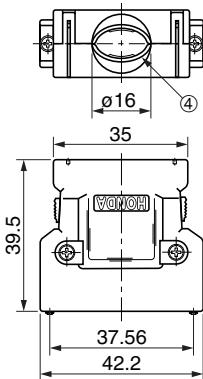
- ① Housing
- ② Lock hardware
- ③ Screw lock
- ④ Clamp



PCR-LS36LA

● Components

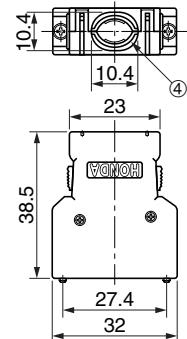
- ① Housing
- ② Lock hardware
- ③ Screw lock
- ④ Clamp



PCR-LS20LA

● Components

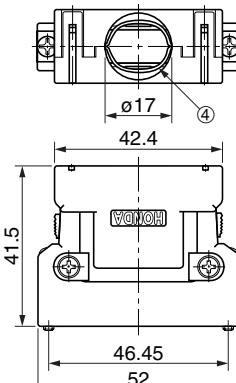
- ① Housing
- ② Lock hardware
- ③ Screw lock
- ④ Clamp



PCR-LS50LA

● Components

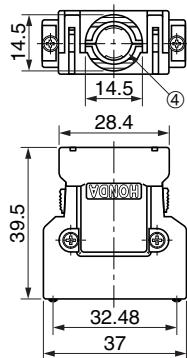
- ① Housing
- ② Lock hardware
- ③ Screw lock
- ④ Clamp



PCR-LS28LA

● Components

- ① Housing
- ② Lock hardware
- ③ Screw lock
- ④ Clamp



Mating connectors: PCR-S()FS+

Through hole

SMT

Press-in

IDC

Soldering

Crimping

Wire wrapping

Others

**Vertical type plastic backshell (without screw lock)
PCR-S20LA**

1.27 mm pitch connector

Backshell

Vertical type

RoHS



● Configuration of product Part No.

PCR-S 20 L A

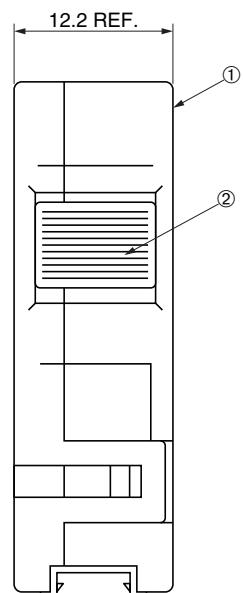
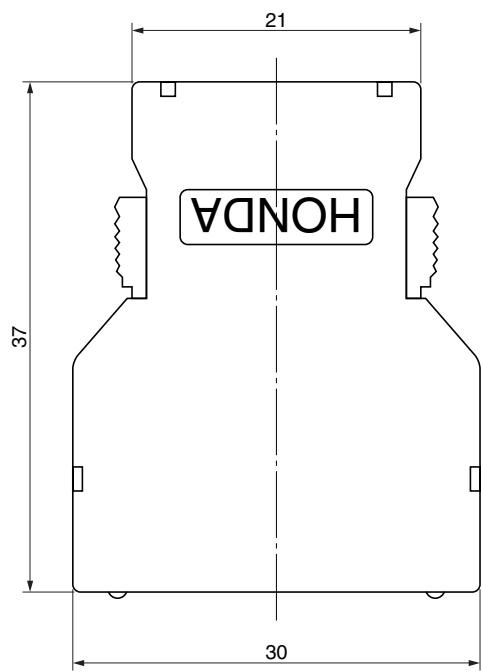
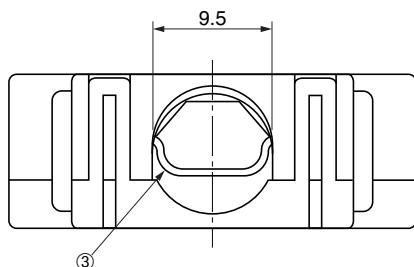
① ② ③

① Series name

② No. of contacts: 20

③ For use with specific cable sizes

A: Outside diameter of cable is 8.5 mm.



● Components

| | |
|---|---------------|
| ① | Housing |
| ② | Lock hardware |
| ③ | Clamp |

Mating connectors: PCR-S20FS+