

PCS series

1.27 mm Pitch Connectors

Outline

PCS series provides various 1.27 mm pitch smaller-sized high density interface connectors specifically designed for downsized electronic equipment.

Features

- 20 - 96 contacts for board-to-cable connectors
- Results in substantial labor saving; IDC type connection is standard for cables. (AWG #28 or #30)
- Soldering type connectors available
- EMI-filtered design to meet FCC and other standards
- Backshell has a robust interface structure.
- Quick locking with metal latch
- Panel-to-cable connectors available
- Accessory is available for preventing connector misinsertion.
- 34 - 150 contacts for board-to-cable connectors.
- Even with many contacts, connectors can be easily inserted or extracted due to a low insertion force design.
- Drainage structure ensures cleaning solution does not remain in the housing during flux removal. (For molded type male connectors)

Principal Applications

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

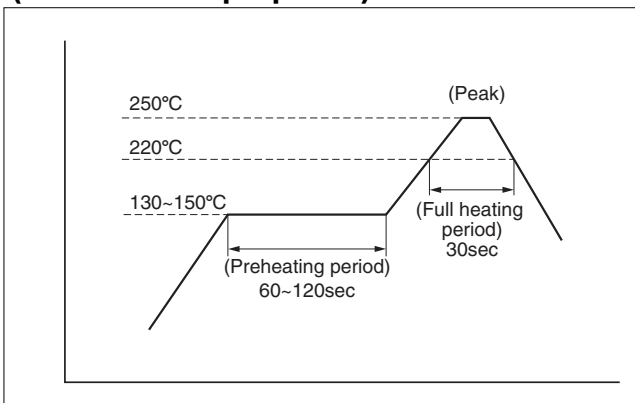
Electrical Characteristics

Rated voltage	250V AC (r.m.s.)
Rated current	1 A
Insulation resistance	Over 1000 megohms at 100V DC
Dielectric withstanding voltage	750V AC (r.m.s.) for PCS series 500V AC (r.m.s.) for PCS-XE series
Contact resistance	35 milliohms or less (not applicable to some products)

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)**

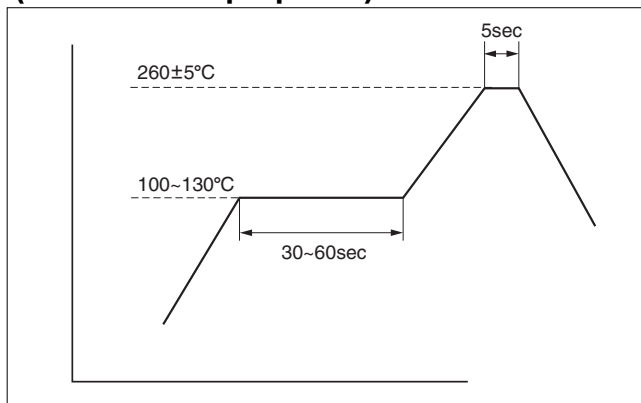


The reflow temperature profile shown in this drawing is for reference purposes. This profile depends on requirements such as reflow equipment, soldering paste, and PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own reflow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

●Applicable products

PCS-XE()SLFYTU()+

**Flow temperature profile
(for reference purposes)**



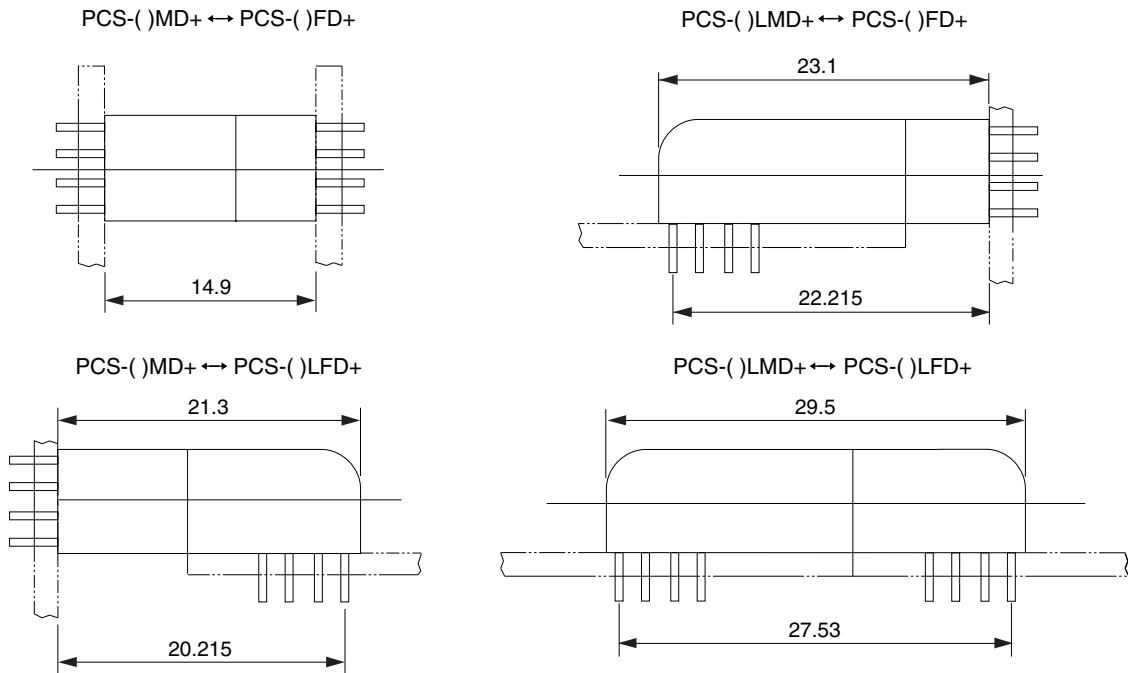
The flow temperature profile as shown above is for reference purposes. This profile depends on requirements such as the PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own flow temperature profile.

●Applicable products

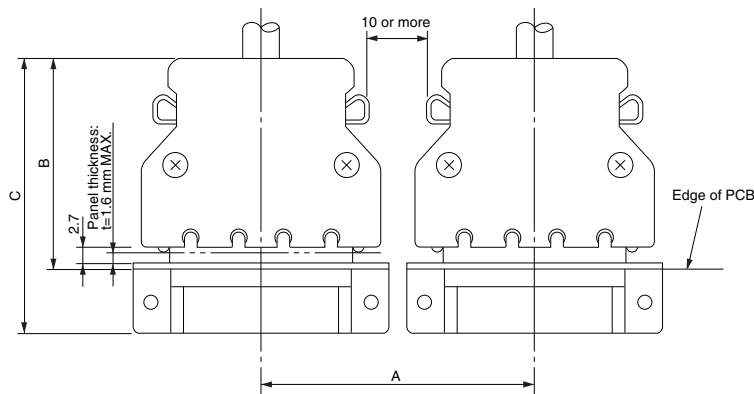
PCS series through hole type connector

Dimensions of connector mounting for reference purposes

Board-to-board connector dimensions for reference purposes



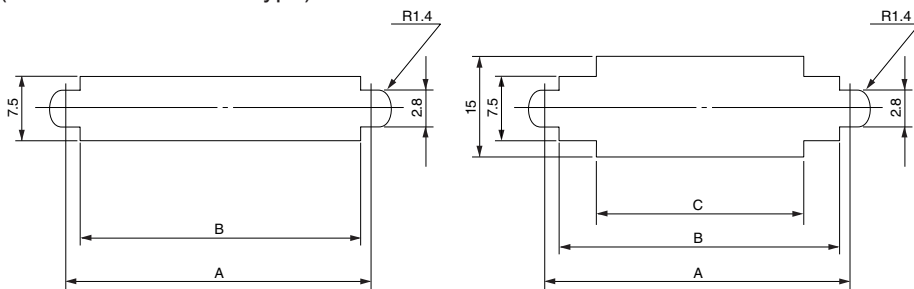
Board-to-cable connector dimensions for reference purposes (In the case of spring-locked type)



Number of contacts	A	B	C
20	35 or more	35.5 or more	46.2 or more
28	40 or more		
36	45.1 or more		
50	54 or more		
68	65.4 or more		
80	73 or more	40.5 or more	51.2 or more
96	83.2 or more		

Panel mounting-hole dimensions for reference purposes

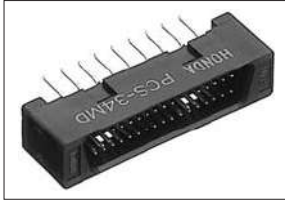
(In the case of PCS-E type)



In the case of using a mating guide

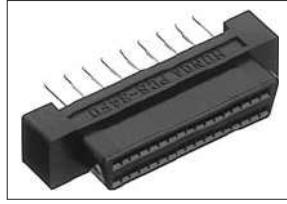
Number of contacts	A	B	C
20	27.4	23.7	11.3
28	32.5	28.8	16.3
36	37.6	33.9	20.3
50	46.5	42.8	30.3
68	57.9	54.2	40.3
80	65.5	61.8	50.3
96	75.69	72.0	—

Product List



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

B-10
PCS series...8



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

B-11
PCS series...9



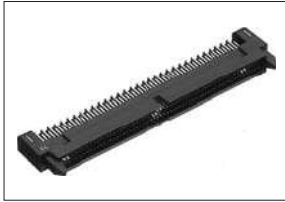
Right-angle through hole type male connector for PCB PCS-()LMD+

B-12
PCS series...10



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

B-13
PCS series...11



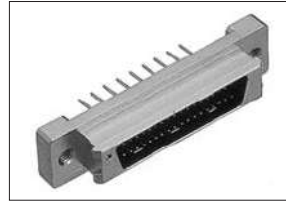
Right-angle through hole type male connector for PCB PCS-128LMDT-GP+

B-14
PCS series...12



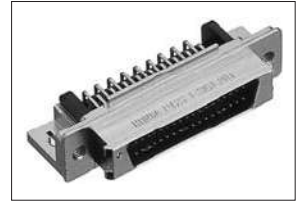
Right-angle through hole type female connector for PCB PCS-128LFDT-GP+

B-15
PCS series...13



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

B-16
PCS series...14



Right-angle through hole type female connector for PCB PCS-E()LMD+

B-17
PCS series...15



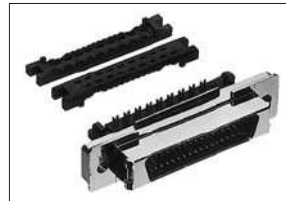
IDC type female connector for cable PCS-E()F()

B-18
PCS series...16



Soldering type female connector for cable PCS-E()FS+

B-19
PCS series...17



IDC type male connector for panel PCS-E()PM()-()

B-20
PCS series...18



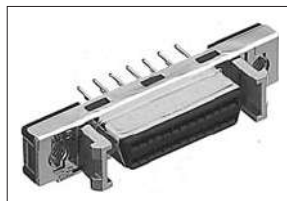
IDC type male connector for cable PCS-D()MA1()+

B-21
PCS series...19



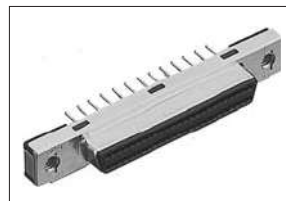
IDC type female connector for cable PCS-D68()FA1()+

B-22
PCS series...20



Straight through hole type female connector for PCB PCS-XE()SFD()+

B-23
PCS series...21



Straight through hole type female connector for PCB PCS-XE()SFD()N+

B-24
PCS series...22



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

B-25
PCS series...23



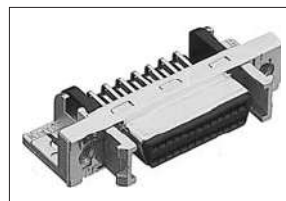
Right-angle through hole type female connector for PCB PCS-XE68LFD()N()+

B-26
PCS series...24



Right-angle through hole type female connector for PCB PCS-XE100LFD()-()+

B-27
PCS series...25



Right-angle through hole type female connector for PCB PCS-XE()SLFD()+

B-28
PCS series...26



Right-angle through hole type female connector for PCB PCS-XE()SLFD()+

B-29
PCS series...27



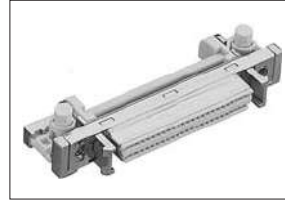
Right-angle through hole type female connector for PCB
PCS-XE()SLFD()N+

B-30
PCS series...28



Right-angle through hole type female connector for PCB
PCS-XE()SLFDT()N+

B-31
PCS series...29



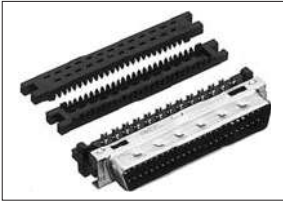
Right-angle SMT type female connector for PCB
PCS-XE()SLFYTU()+

B-32
PCS series...30



Straight Press-in type female connector for PCB
PCS-XE50SFP()()

B-33
PCS series...31



IDC type male connector for cable
PCS-XE()M()()+

B-34
PCS series...32



Soldering type male connector for cable
PCS-XES68MS+

B-35
PCS series...33



IDC type female connector for panel
PCS-XE()SPF()()()

B-37
PCS series...35



IDC type female connector for panel
PCS-XED()()FA()()+

B-38
PCS series...36



IDC type female connector for panel
PCS-XED68()FAUN()+

B-39
PCS series...37



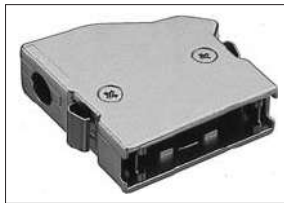
EMI-filtered vertical type die-cast material backshell for standard cable
PCS-E()L()

B-40
PCS series...38



Mating guide structure vertical type die-cast material backshell for standard cable
PCS-E()LG()

B-42
PCS series...40



Horizontal type die-cast material backshell for standard cable
PCS-E()W

B-43
PCS series...41



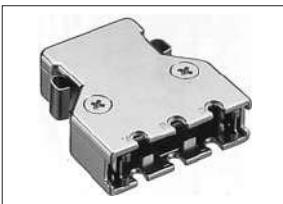
Vertical type plastic backshell for flat cable
PCS-E()LT+

B-44
PCS series...42



Vertical type die-cast material backshell for cable extension
PCS-E()PML()

B-45
PCS series...43



Vertical type die-cast material backshell for standard cable with provision for preventing misinsertion
PCS-E()LP()-()+R

B-46
PCS series...44



Vertical type die-cast material backshell for larger diameter cable with provision for preventing misinsertion
PCS-E()LKP()-()+R

B-47
PCS series...45



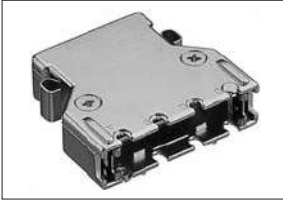
Vertical type die-cast material backshell for larger diameter cable with mating guide for preventing misinsertion
PCS-E96LKP()-()+R

B-48
PCS series...46

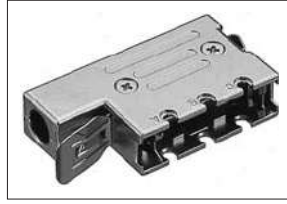


Vertical type die-cast material backshell for larger diameter cable with provision for preventing misinsertion
PCS-E96LKP1A-()+R

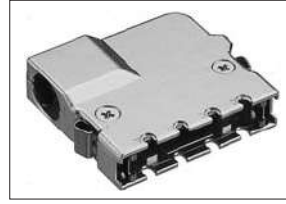
B-49
PCS series...47



Vertical type die-cast material backshell for standard cable with mating guide for preventing misinsertion
 PCS-E()LGP()-()+R
B-50
 PCS series...48



Horizontal type die-cast material backshell for standard cable with provision for preventing misinsertion
 PCS-E()WSP()-()+R
B-51
 PCS series...49



Horizontal type die-cast material backshell for larger diameter cable with provision for preventing misinsertion
 PCS-E()WKP()-()+R
B-52
 PCS series...50



Horizontal type die-cast material backshell for larger diameter cable with provision for preventing misinsertion
 PCS-E96WKP()-()+R
B-53
 PCS series...51



Vertical type die-cast material backshell for flat cable with provision for preventing misinsertion
 PCS-E()LTP()-()+R
B-54
 PCS series...52



Vertical type die-cast material backshell for larger diameter cable
 PCS-E68LKAU2N
B-55
 PCS series...53



Vertical type over-molded backshell
 PCS-XEM()DL()-()N
B-56
 PCS series...54



Vertical type over-molded backshell
 PCS-XEM100L()-()
B-57
 PCS series...55



Vertical type die-cast material backshell for daisy chain connection
 PCS-SE68LDAU2N
B-58
 PCS series...56



1.6 mm panel-thickness mating guide
 PCS-E()G
B-62
 PCS series...60



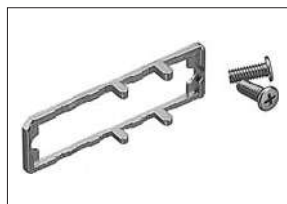
1.0 mm panel-thickness mating guide
 PCS-E()G1
B-63
 PCS series...61



Metallic mating guide
 PCS-E()G3()
B-64
 PCS series...62



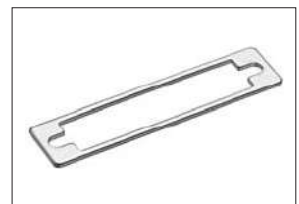
Key rivet for preventing misinsertion
 PCS-E-PK+R
B-66
 PCS series...64



Misinsertion prevention guide
 PCS-E()PG()
B-67
 PCS series...65



Misinsertion prevention guide
 PCS-E96PG()
B-68
 PCS series...66



Spacer hardware for male connector
 PCS-E()M-SP
B-69
 PCS series...67



Screw lock
PCS-XE50SJ()U2

B-70
PCS series...68

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

For PCB

Straight Through hole

RoHS

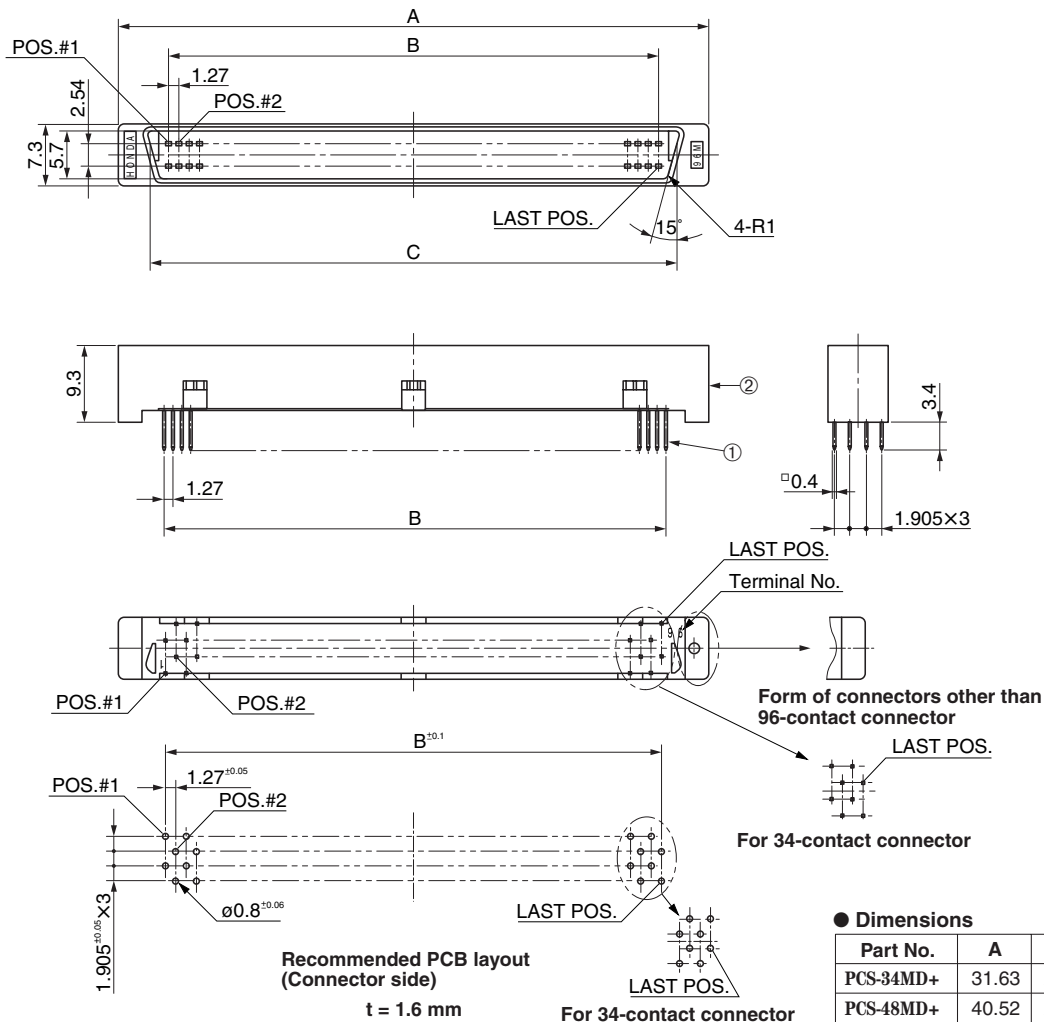


● Configuration of product Part No.

PCS- () MD+

① ② ③

- ① Series name
- ② No. of contacts: 34, 48, 68, 96 or 150
- ③ Type of connector
MD: Straight through hole type, male



● Dimensions

Part No.	A	B	C
PCS-34MD+	31.63	20.32	24.69
PCS-48MD+	40.52	29.21	33.58
PCS-68MD+	53.22	41.91	46.28
PCS-96MD+	71.0	59.69	64.06
PCS-150MD+	105.29	93.98	98.35

● Components

①	Contacts
②	Insulator

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Mating connectors: PCS series PCB-side through hole type female connector

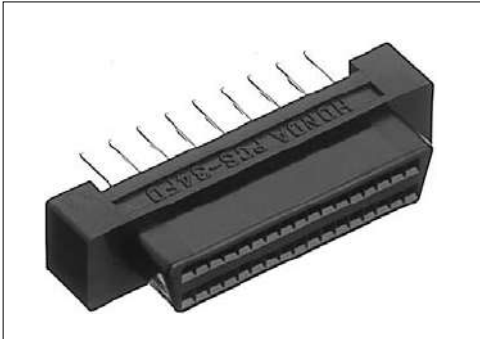
Accessories: Dust-proof cap, PCS-()C

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

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

For PCB
Straight Through hole

RoHS

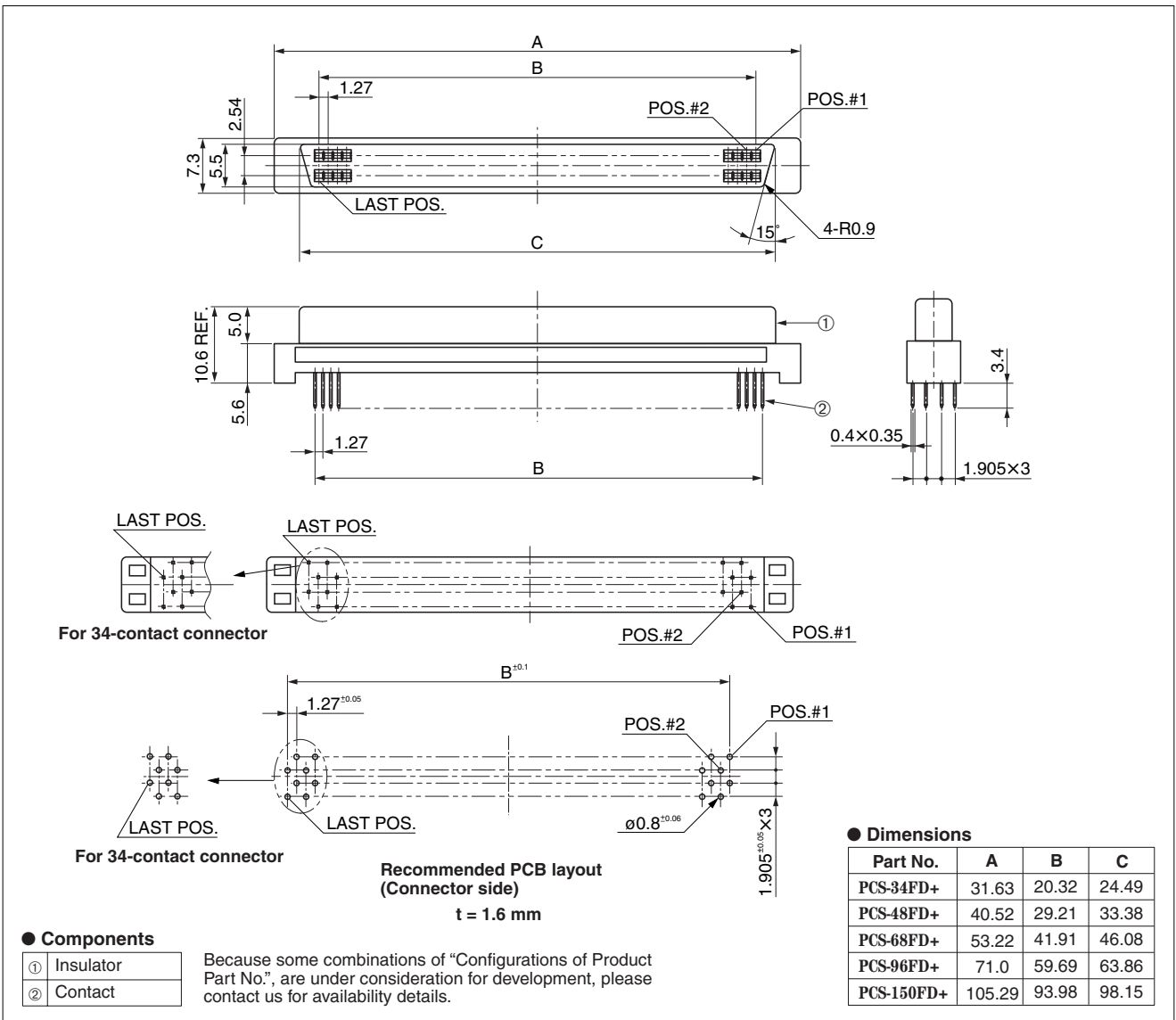


● Configuration of product Part No.

PCS- () FD+

① ② ③

- ① Series name
- ② No. of contacts: 34, 48, 68, 96 or 150
- ③ Type of connector
FD: Straight through hole type, female



Mating connectors: PCS series straight through hole type male connector for PCB (Stacked height: 14.9 mm)

PCS series right-angle through hole type male connector for PCB

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

For PCB

Right-angle Through hole

RoHS

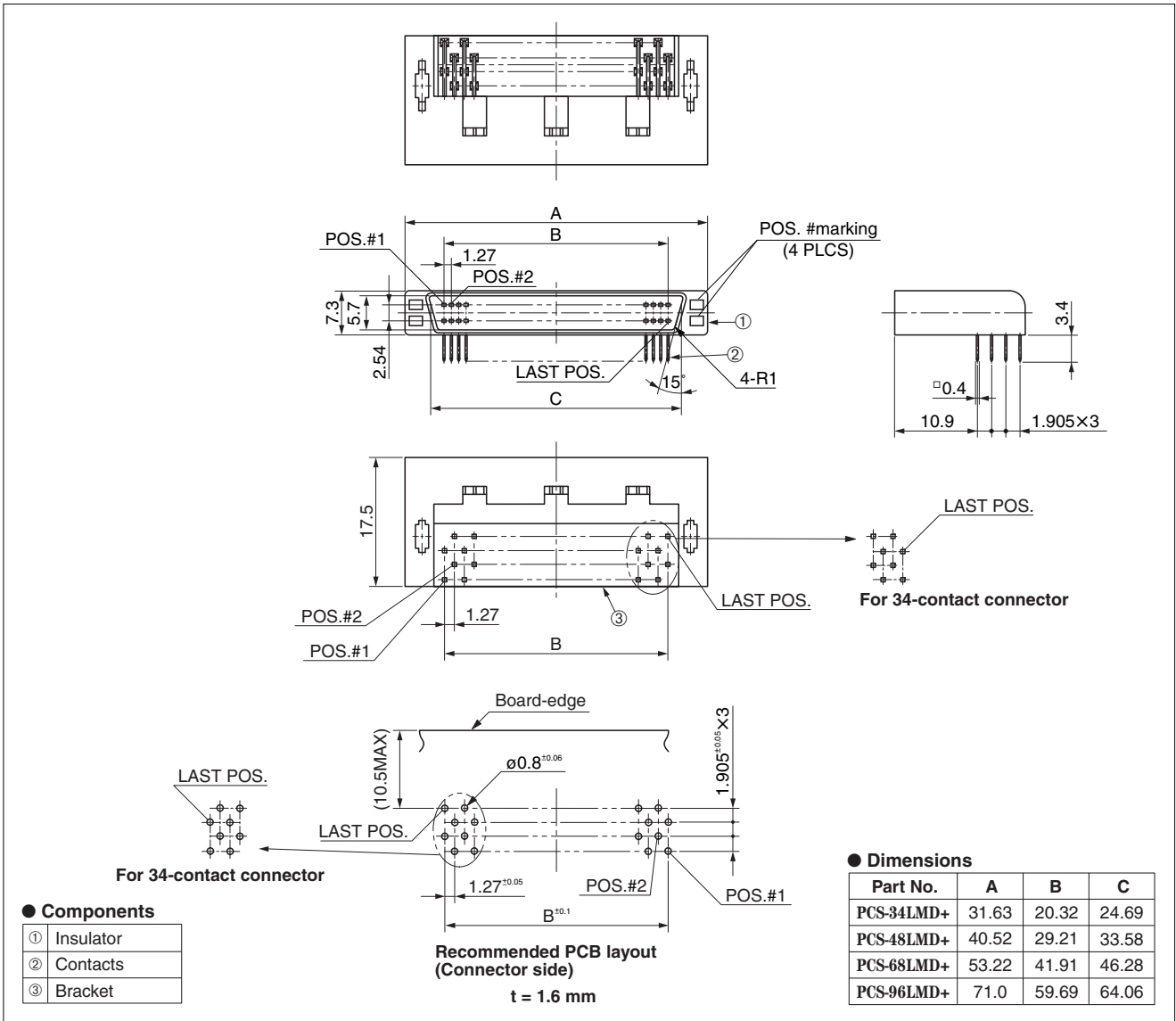


● Configuration of product Part No.

PCS- () LMD+

- ①
- ②
- ③

- ① Series name
- ② No. of contacts: 34, 48, 68 or 96
- ③ Type of connector
 LMD: Right-angle through hole type, male



Mating connectors: PCS series straight through hole type female connector for PCB

PCS series right-angle through hole type female connector for PCB

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

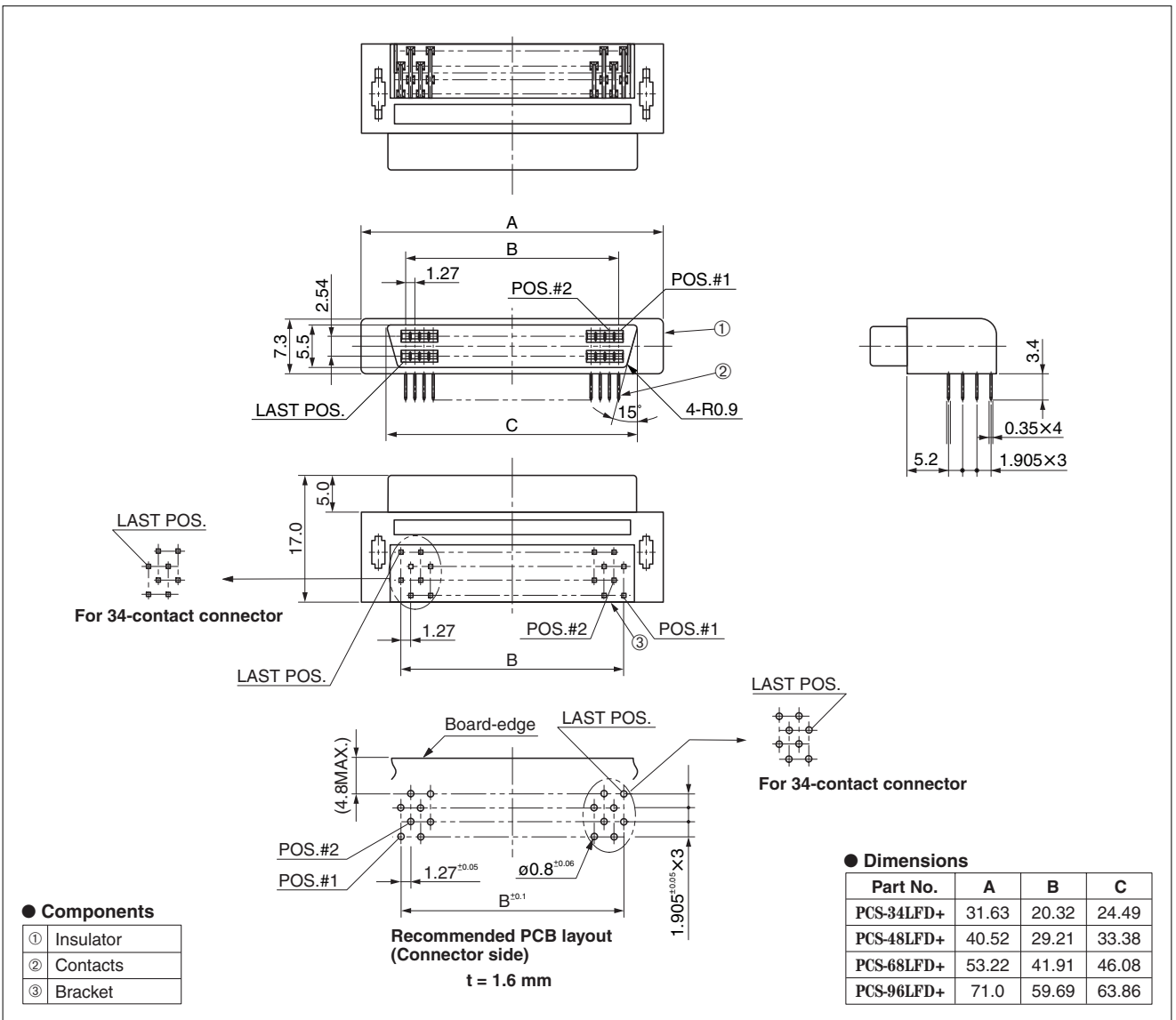


● Configuration of product Part No.

PCS- () LFD+

① ② ③

- ① Series name
- ② No. of contacts: 34, 48, 68 or 96
- ③ Type of connector
 LFD: Right-angle through hole type, female



Mating connectors: PCS series straight through hole type male connector for PCB

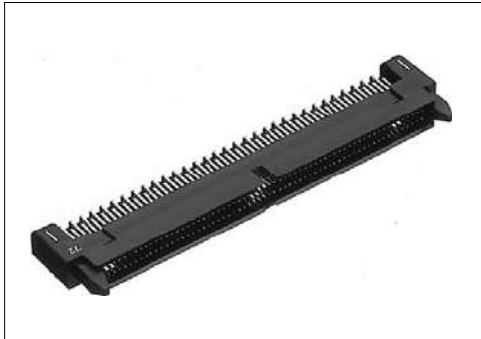
PCS series right-angle through hole type male connector for PCB

Right-angle through hole type male connector for PCB
PCS-128LMDT-GP+

1.27 mm pitch connector

For PCB

Right-angle Through hole

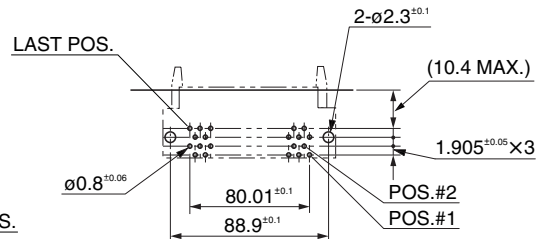
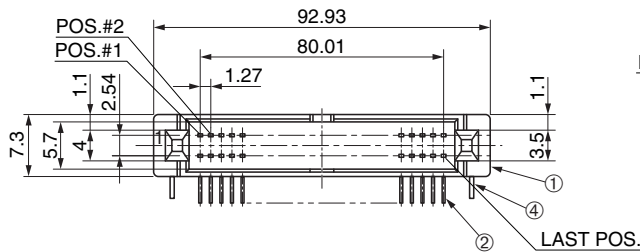


● Configuration of product Part No.

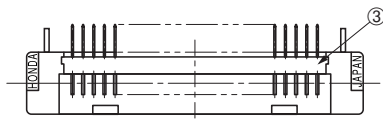
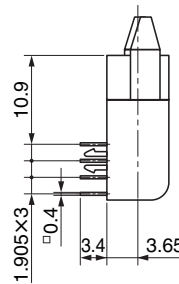
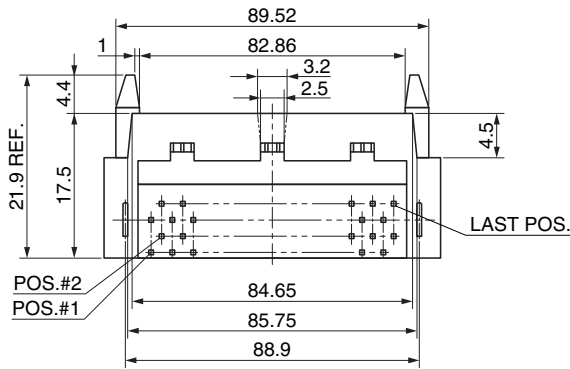
PCS- 128 LMD T- GP+

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 128
- ③ Type of connector
LMD: Right-angle through hole type, male
- ④ Lock pin
- ⑤ Mating guide



Recommended PCB layout
(Connector side)
t = 1.6 mm



● Components

①	Insulator
②	Contacts
③	Bracket
④	Lock pin

Mating connectors: PCS-128LFDT-GP+

Right-angle through hole type female connector for PCB
PCS-128LFDT-GP+

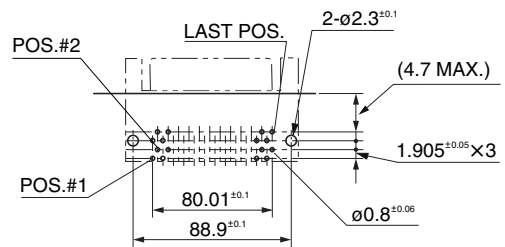
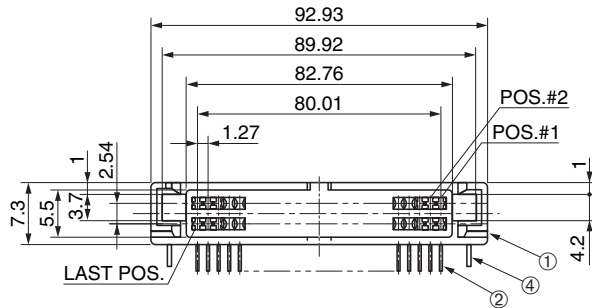


● Configuration of product Part No.

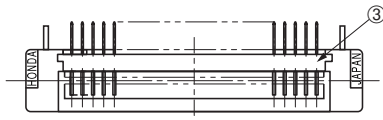
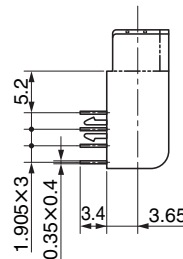
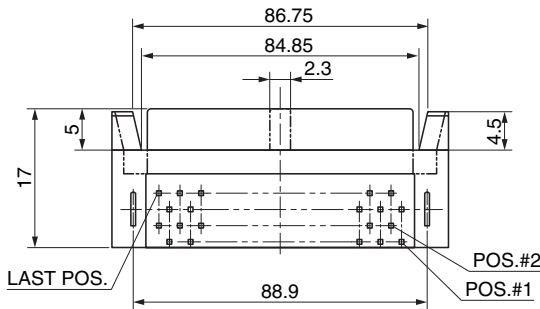
PCS- 128 LFD T- GP+

- ① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 128
- ③ Type of connector
LFD: Right-angle through hole type, female
- ④ Lock pin
- ⑤ Mating guide



Recommended PCB layout
(Connector side)
t = 1.6 mm



● Components

- | | |
|---|-----------|
| ① | Insulator |
| ② | Contacts |
| ③ | Bracket |
| ④ | Lock pin |

Mating connectors: PCS-128LMDT-GP+

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

1.27 mm pitch connector

For PCB

Straight Through hole

RoHS

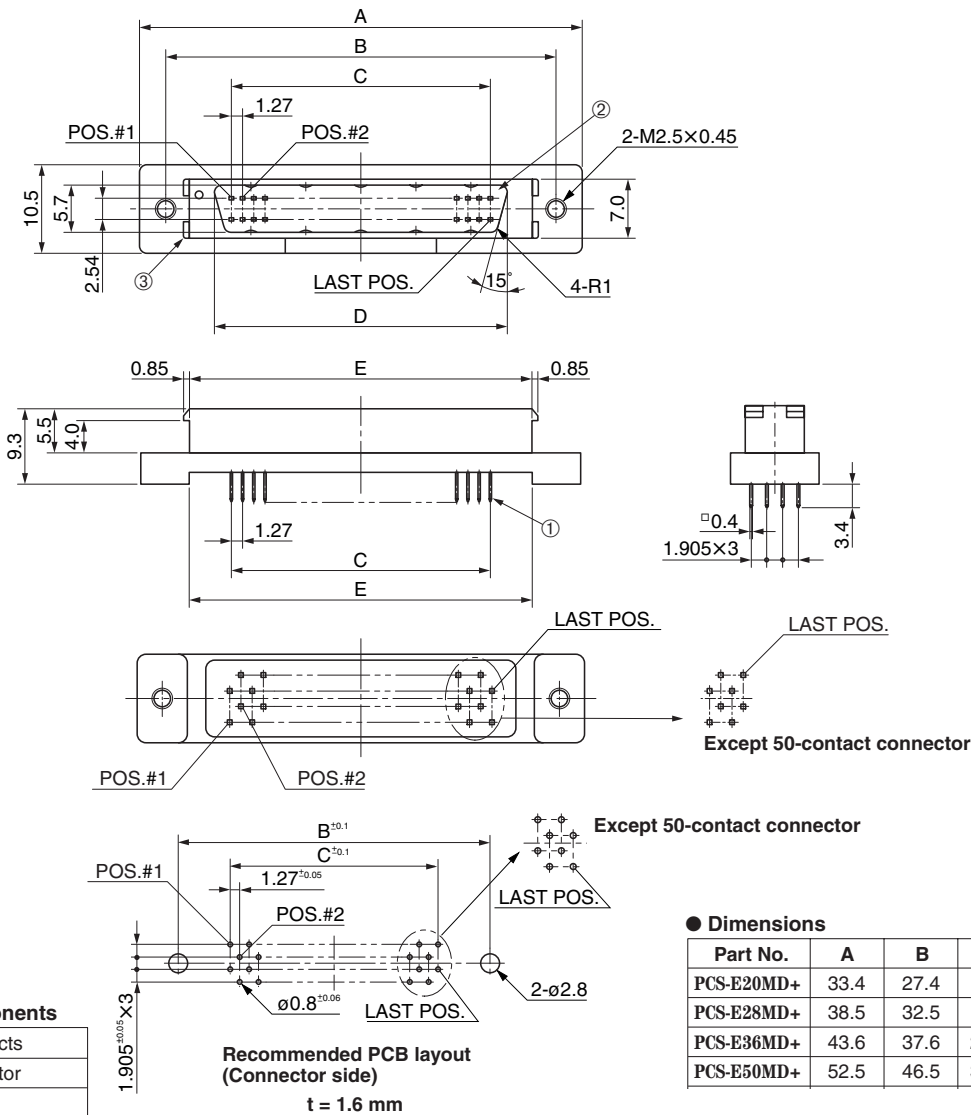


● Configuration of product Part No.

PCS-E () MD+

① ② ③

- ① Series name
- ② No. of contacts: 20, 28, 36, 50
- ③ Type of connector
MD: Straight through hole type, male



Mating connectors: PCS-E series cable-side IDC type female connector

PCS-E series cable-side soldering type female connector

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



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

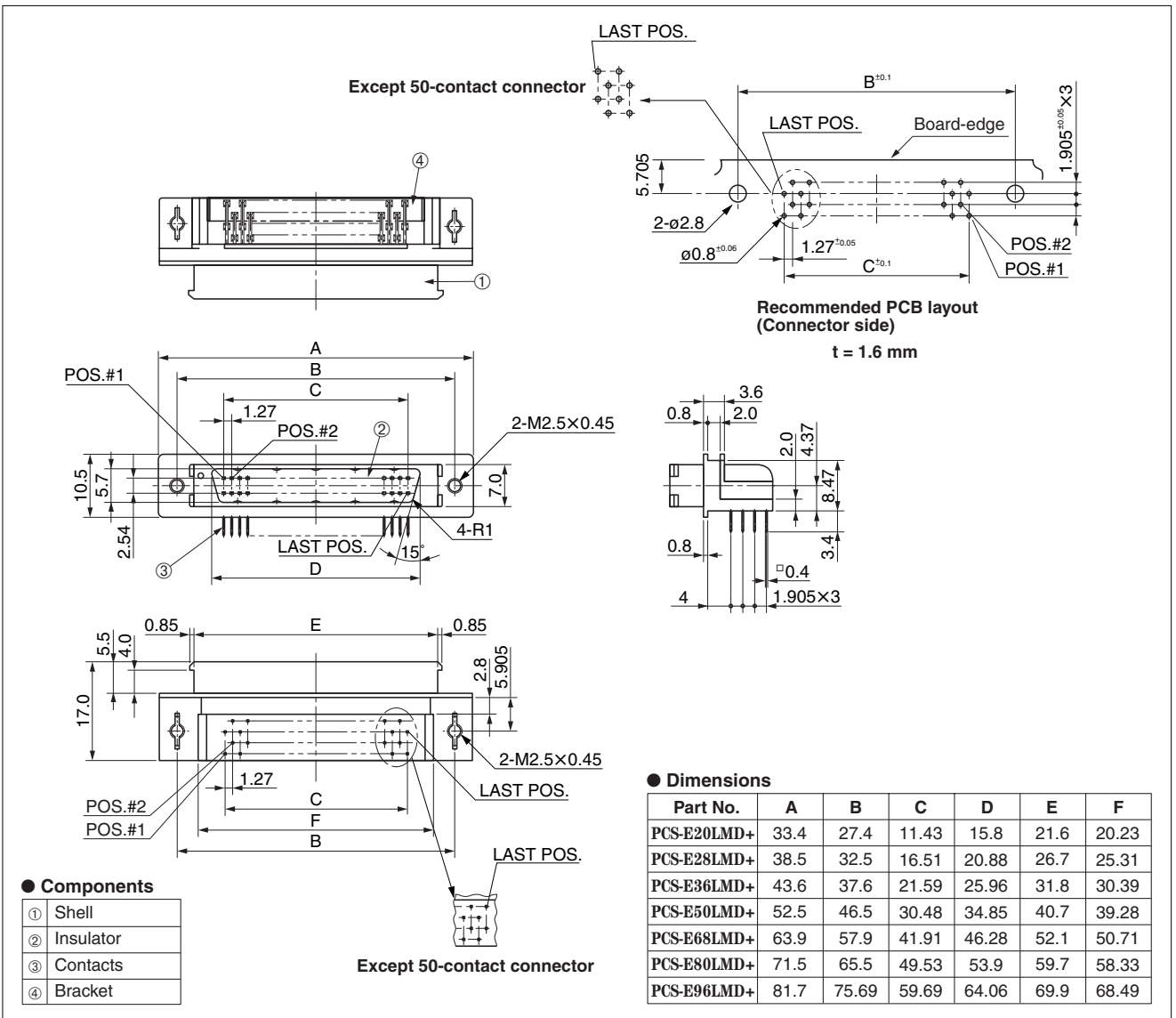


● Configuration of product Part No.

PCS-E () LMD+

① ② ③

- ① Series name
- ② No. of contacts: 20, 28, 36, 50, 68, 80 or 96
- ③ Type of connector
LMD: Right-angle through hole type, male



Mating connectors: PCS-E series cable-side IDC type female connector

PCS-E series cable-side soldering type female connector

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

IDC type female connector for cable
PCS-E()F()

1.27 mm pitch connector

For cable

IDC (1.2 mm)

RoHS



● Configuration of product Part No.

PCS-E () F ()

① ② ③ ④

- ① Series name
- ② No. of contacts: 20, 28, 36, 50, 68, 80 or 96
- ③ Type of contact: Female
- ④ Cable sizes for reference purposes (In case the cable sheath is made of PVC resin)
 Blank: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of insulation is 0.8–1.0 mm. For discrete wire.
 A : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of insulation is 0.5–0.65 mm. For discrete wire.
 B : AWG#30(7 / 0.1). Outside diameter of wire is 0.5–0.65 mm. For discrete wire.
 C : AWG#28(7 / 0.127) For flat cable
 D : AWG#30(7 / 0.1) For flat cable (See Note #1)

● Components

①	Contacts
②	Spacer
③	Shell
④	Insulator
⑤	Cable cover

● Dimensions

Part No.	A	B	C
PCS-E20F()	21.65	11.43	15.4
PCS-E28F()	26.7	16.51	20.48
PCS-E36F()	31.8	21.59	25.56
PCS-E50F()	40.7	30.48	34.45
PCS-E68F()	52.1	41.91	45.88
PCS-E80F()	59.7	49.53	53.5
PCS-E96F()	69.9	59.69	63.66

Note 1: This 96-contact connector is not available for flat cable.

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Mating connectors: PCS-E series through hole type male connector for PCB

PCS-E series IDC type male connector for panel

Tool: (Refer to page Tool-11)

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

Soldering type female connector for cable
PCS-E()FS+

For cable

Soldering

RoHS

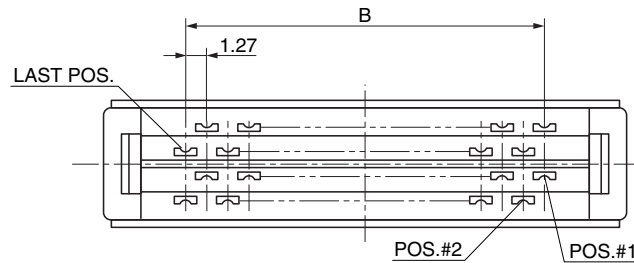
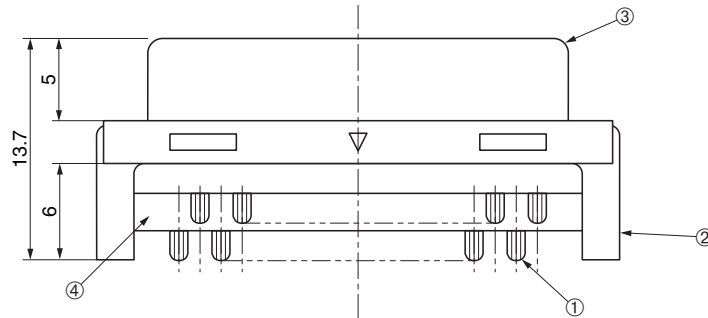
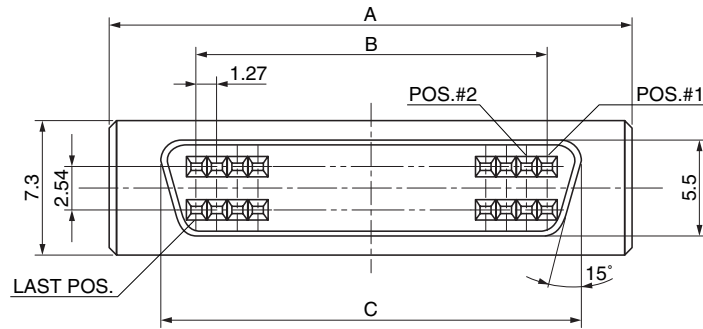


● Configuration of product Part No.

PCS-E () FS+

① ② ③

- ① Series name
- ② No. of contacts: 20, 28, 36, 50 or 68
- ③ Type of contact: Soldering type, female
Cable sizes for reference purposes
FS: AWG#20 MAX.



● Components

①	Contacts
②	Insulator
③	Shell
④	Spacer

● Dimensions

Part No.	A	B	C
PCS-E20FS+	21.65	11.43	15.4
PCS-E28FS+	26.7	16.51	20.48
PCS-E36FS+	31.8	21.59	25.56
PCS-E50FS+	40.7	30.48	34.45
PCS-E68FS+	52.1	41.91	45.88

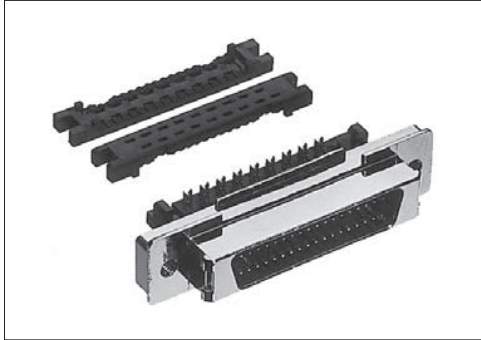
Mating connectors: PCS-E series through hole type male connector for PCB

PCS-E series IDC type male connector for panel

IDC type male connector for panel
PCS-E () PM ()-()

For cable

IDC (1.27 mm)

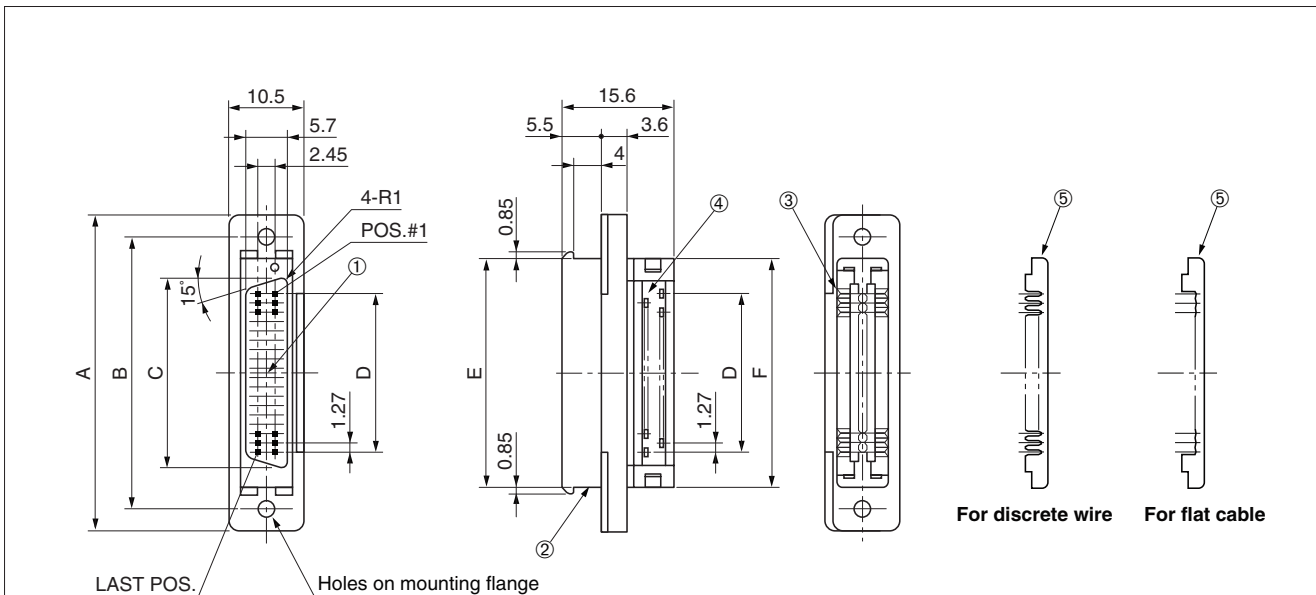


● Configuration of product Part No.

PCS-E () P M ()-()

① ② ③ ④ ⑤ ⑥

- ① Series name
- ② No. of contacts: 20, 28, 36, 50
- ③ For panel
- ④ Type of contact: Male
- ⑤ Cable sizes for reference purposes (In case the cable insulation is made of PVC resin)
Blank: AWG#28(7 / 0.127). AWG#30(1 / 0.245). For flat cables
A : AWG#28(7 / 0.127). AWG#30(1 / 0.245). Outside diameter of insulation is 0.8–1.0 mm. For discrete wire.
B : AWG#30(7 / 0.1). For flat cables.
C : AWG#28(7 / 0.127) flat cable. AWG#30(1 / 0.245). Outside diameter of insulation is 0.5–0.65 mm. For discrete wire.
D : AWG#30(7 / 0.1). Outside diameter of wire is 0.5–0.65 mm. For discrete wire.
- ⑥ Holes on mounting flange
Blank: M2.5×0.45
H : Diameter of hole: 2.7 mm (The connector is mounted on the Die-cast material vertical backshell of PCS-E()PML().)



This figure shows 36-contact connector as a typical example.

● Components

①	Insulator
②	Shell
③	Contacts
④	Spacer
⑤	Cable cover

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

● Dimensions

Part No.	A	B	C	D	E	F
PCS-E20PM()	33.4	27.4	15.8	11.43	21.6	21.65
PCS-E28PM()	38.5	32.5	20.88	16.51	26.7	26.7
PCS-E36PM(),-H	43.6	37.6	25.96	21.59	31.8	31.8
PCS-E50PM()	52.5	46.5	34.85	30.48	40.7	40.7

Mating connectors: PCS-E series cable-side soldering type female connector

PCS-E series cable-side IDC type female connector

IDC type male connector for cable
PCS-D() () MA1()+

For cable

IDC (0.635 mm)

RoHS

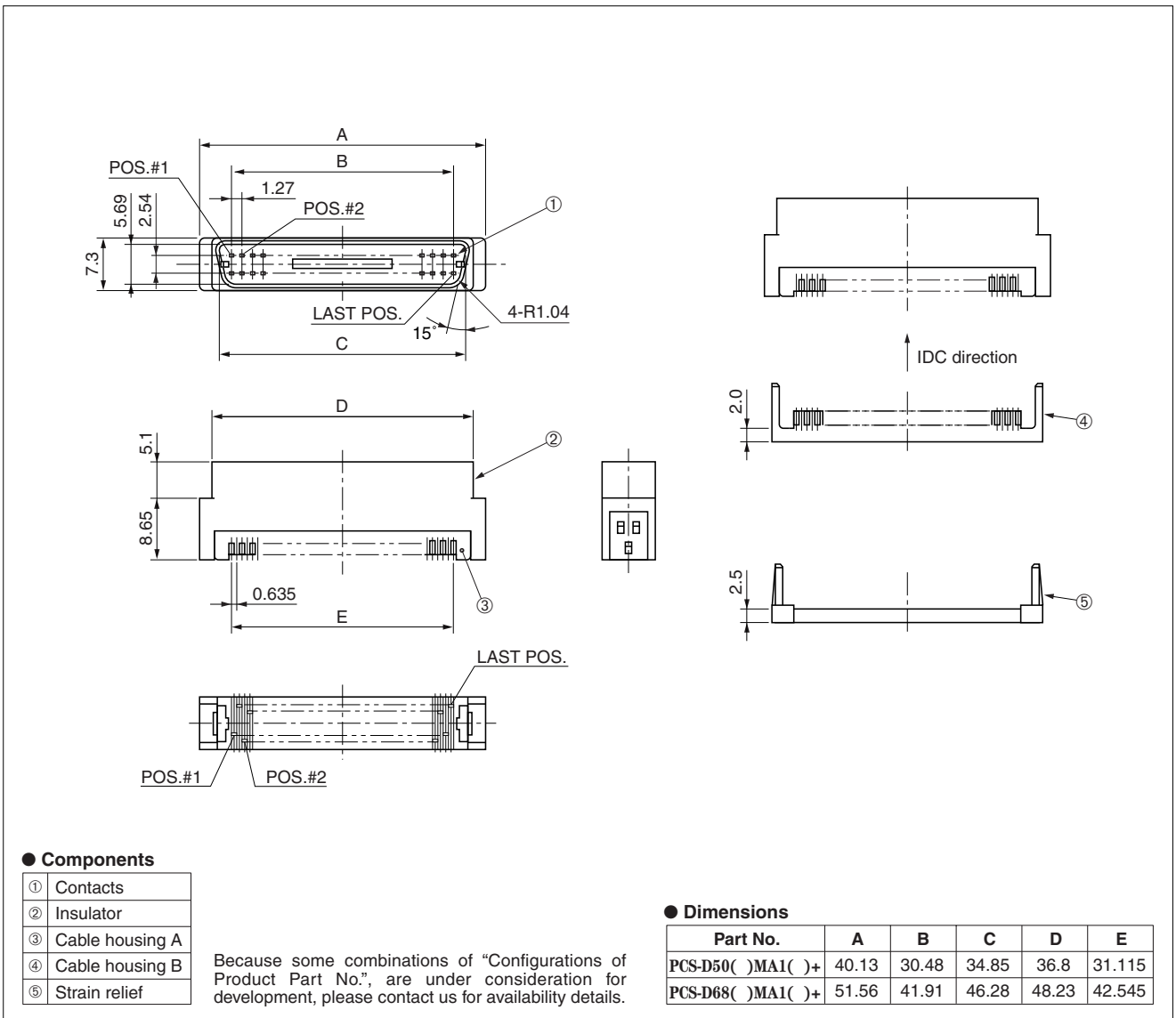
Daisy chain



● Configuration of product Part No.

PCS-D () () MA1 ()+
① ② ③ ④ ⑤ ⑥

- ① Series name
- ② No. of contacts: 50 or 68
- ③ Strain relief
Blank: Not provided
R : Provided
- ④ Type of contact: Male
- ⑤ Cable size
A: AWG#30 (7 / 0.1) For flat cable
- ⑥ Contact plating
Blank: Min. 0.2 μm Gold plating
G1 : Min. 0.76 μm Gold plating



Mating connectors: PCS series straight through hole type female connector for PCB

PCS-XE series through hole type female connector for PCB

Required tools: MLPT-0003A (68 contacts) and MLPT-0003B (50 contacts) locators

IDC type female connector for cable
PCS-D68()FA1()+

For cable

IDC (0.635 mm)

RoHS

Daisy chain

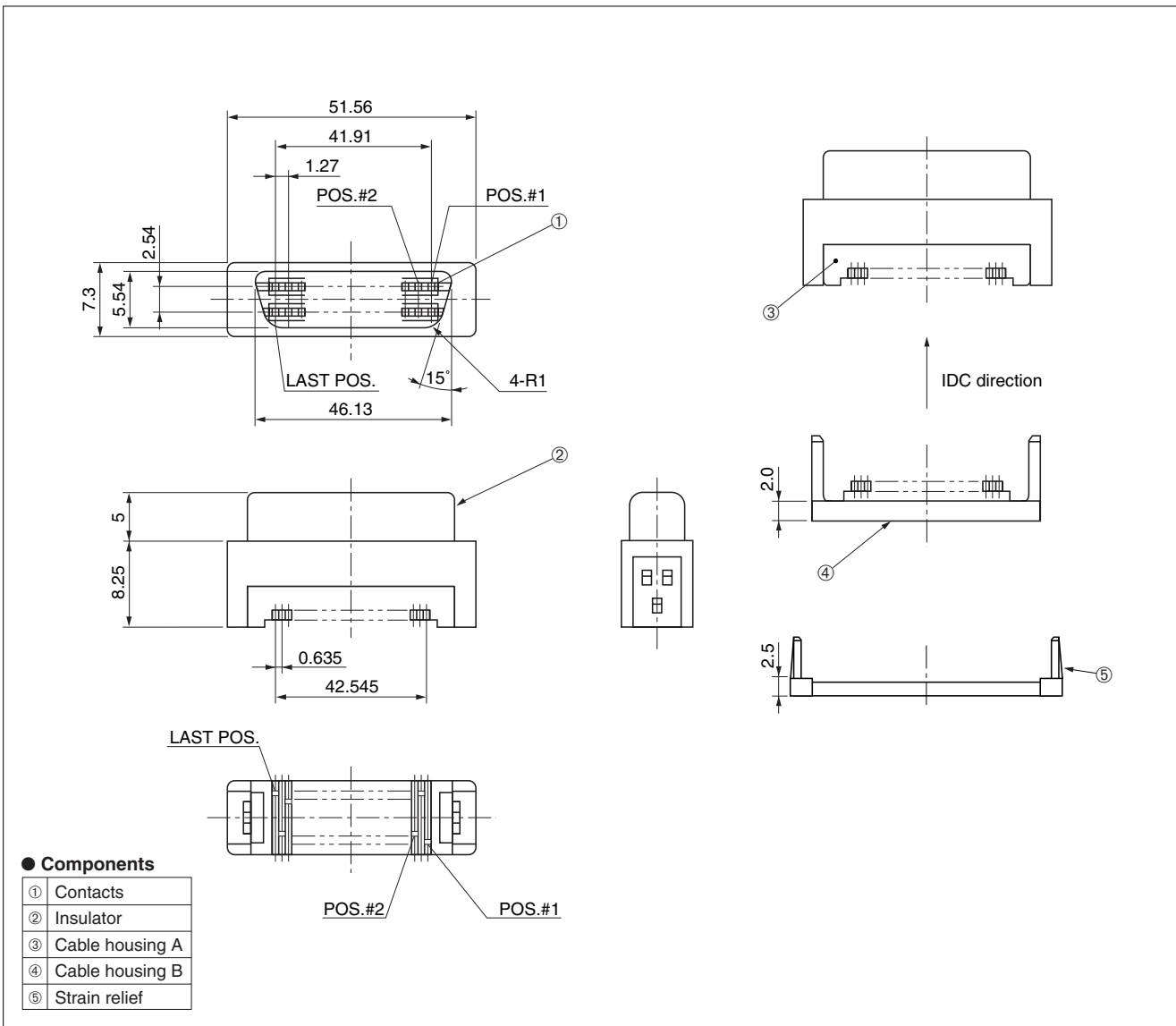


● Configuration of product Part No.

PCS-D 68 () F A 1 ()+

① ② ③ ④ ⑤ ⑥

- ① Series name
- ② No. of contacts: 68
- ③ Strain relief
Blank: Not provided
R : Provided
- ④ Type of contact: Female
- ⑤ Cable sizes
A: AWG#30 (7 / 0.1) For flat cable
- ⑥ Contact plating
Blank: Min. 0.2 μm Gold plating
G1 : Min. 0.76 μm Gold plating



Mating connectors: PCS series through hole type male connector for PCB

Required tools: Locator, MLPT-0006A (only for 68 contacts)

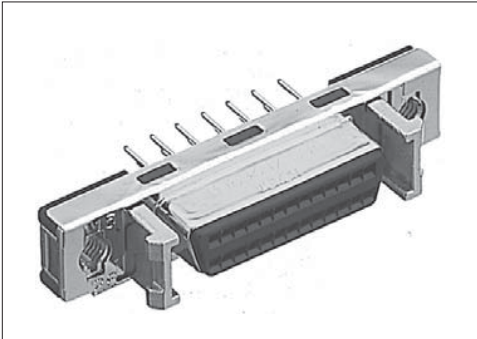
Straight through hole type female connector for PCB
PCS-XE()SFD()(+)

For PCB

Straight Through hole

RoHS

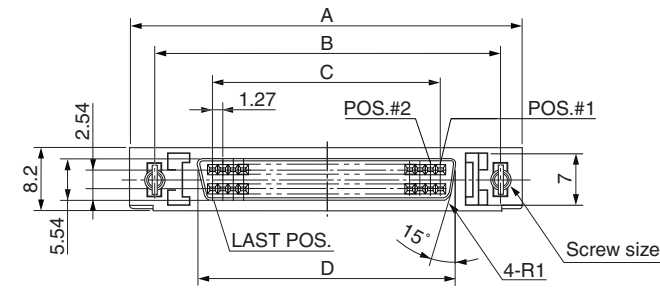
SCSI-II



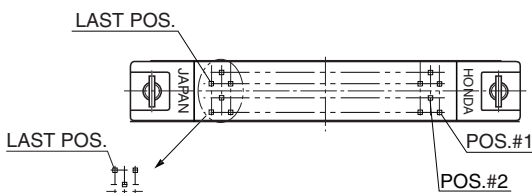
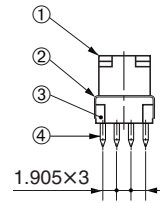
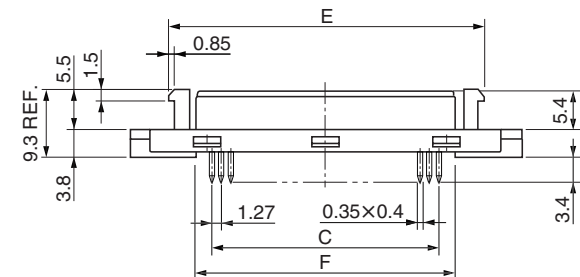
● Configuration of product Part No.

PCS-XE () S FD () +
 ① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 26, 50 or 68
- ③ Type of shell
S: Short shell
- ④ Type of connector
FD: Straight through hole type, female
- ⑤ Screw size
Blank: M2.5×0.45 (standard)
U : #4-40UNC
U2 : #2-56UNC

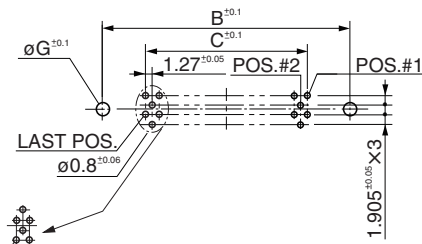


Note 1: This 26-contact connector is not available for #4-40UNC and #2-56UNC screws.



For 68-contact connector

For 68-contact connector



Recommended PCB layout (Connector side)
t = 1.6 mm

● Dimensions

Part No.	A	B	C	D	E	F
PCS-XE26SFD()+	37.2	31.2	15.24	19.46	27.05	20.0
PCS-XE50SFD()+	52.5	46.5	30.48	34.7	42.29	35.24
PCS-XE68SFD()+	63.9	57.9	41.91	46.13	53.72	46.67

● Components

①	Shell A
②	Shell B
③	Insulator
④	Contacts

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Part No.	Screws size	øG
PCS-XE()SFD+	M2.5×0.45	2.8
PCS-XE()SFDU+	#4-40UNC	3.05
PCS-XE()SFDU2+	#2-56UNC	2.5

Mating connectors: PCS-XE series IDC type male connector for cable

Straight through hole type female connector for PCB PCS-XE()SFD()N()+

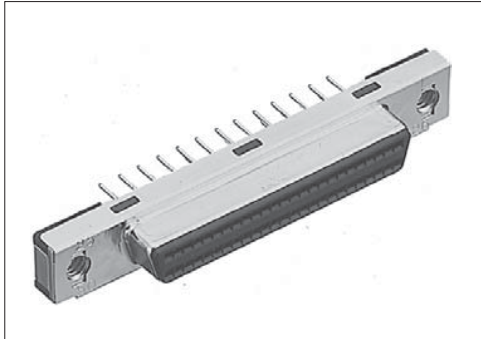
1.27 mm pitch connector

For PCB

Straight Through hole

SCSI-III

RoHS

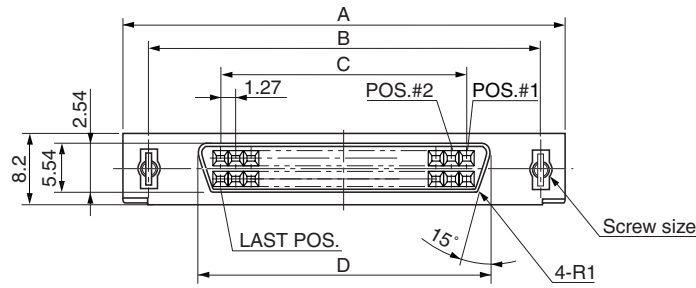


● Configuration of product Part No.

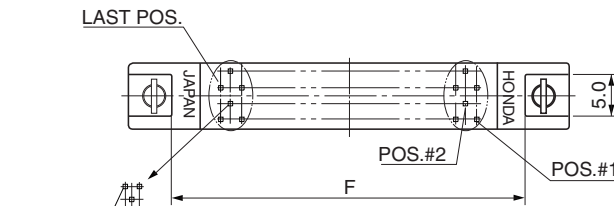
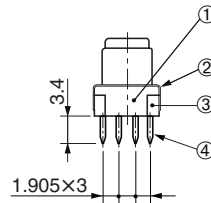
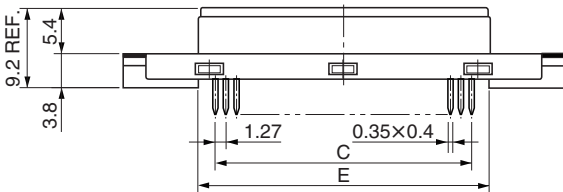
PCS-XE () S FD () N +

① ② ③ ④ ⑤ ⑥

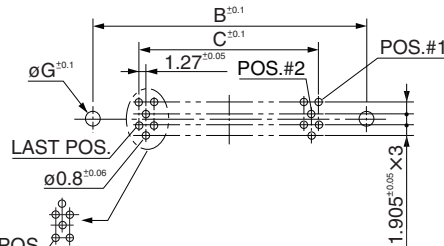
- ① Series name
- ② No. of contacts: 50, 68 or 100
- ③ Type of shell
S: Short shell
- ④ Type of connector
FD: Straight through hole type, female
- ⑤ Screw size
Blank: M2.5×0.45
U : #4-40UNC (standard)
U2 : #2-56UNC
- ⑥ Lock type
N: Screw lock



Note 1: This 26-contact connector is not available for #4-40UNC and #2-56UNC screws.



For 68 or 100-contact connectors



Recommended PCB layout (Connector side)
t = 1.6 mm

● Dimensions

Part No.	A	B	C	D	E	F
PCS-XE50SFD()N+	52.5	46.5	30.48	34.7	35.24	42.1
PCS-XE68SFD()N+	63.9	57.9	41.91	46.13	46.67	53.5
PCS-XE100SFD()N+	84.3	78.23	62.23	66.45	66.99	73.85

● Components

①	Shell A
②	Shell B
③	Insulator
④	Contacts

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Part No.	Screws size	øG
PCS-XE()SFDN+	M2.5×0.45	2.8
PCS-XE()SFDUN+	#4-40UNC	3.05
PCS-XE()SFDU2N+	#2-56UNC	2.5

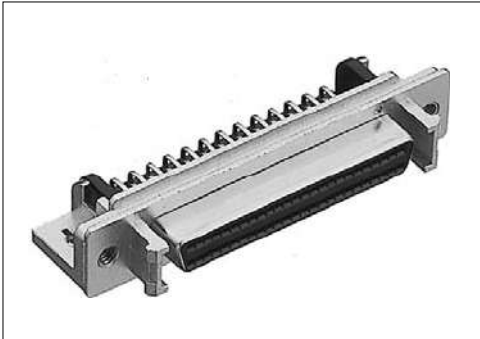
Mating connectors: PCS-XE series IDC type male connector

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

For PCB
 Right-angle Through hole

RoHS

SCSI-II

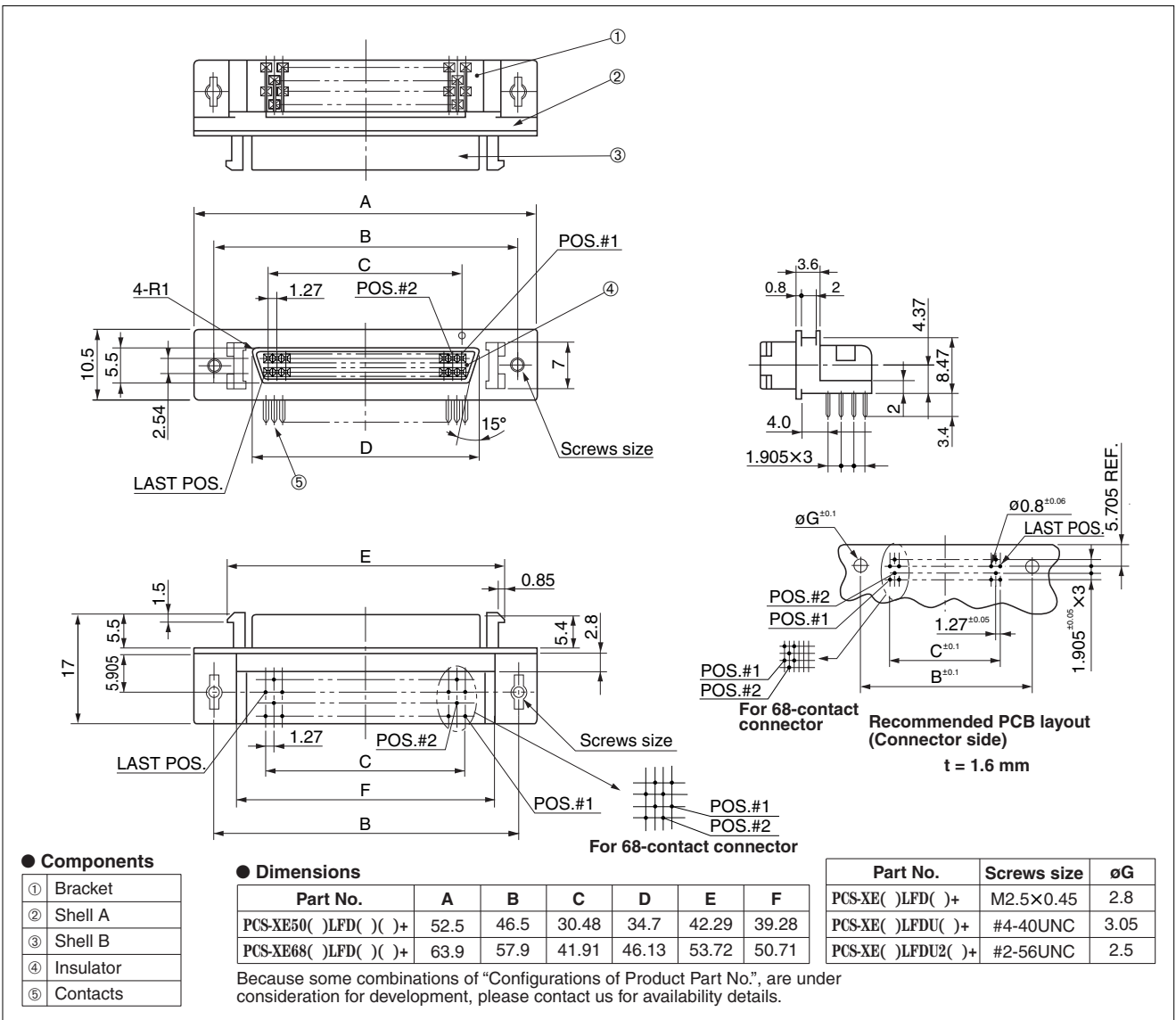


● Configuration of product Part No.

PCS-XE () LFD () ()+

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 50 or 68
- ③ Type of connector
LFD: Right-angle through hole type, female
- ④ Screw size
Blank: M2.5×0.45 (standard)
U : #4-40UNC
U2 : #2-56UNC
- ⑤ Contact plating
Blank: Min. 0.2 μm Gold plating
G1 : Min. 0.76 μm Gold plating



Mating connectors: PCS-XE series IDC type male connector for cable

Right-angle through hole type female connector for PCB
PCS-XE68LFDT()N()+

1.27 mm pitch connector

For PCB

Right-angle Through hole

SCSI-III

RoHS



● Configuration of product Part No.

PCS-XE 68 LFD T () N ()+

① ② ③ ④ ⑤ ⑥ ⑦

- ① Series name
- ② No. of contacts: 68
- ③ Type of connector
LFD: Right-angle through hole type, female
- ④ Board lock pin
Blank: None
T : Provided
- ⑤ Screw size
Blank: M2.5×0.45
U : #4-40UNC (standard)
U2 : #2-56UNC
- ⑥ Lock type
N: Screw lock
- ⑦ Contact plating
Blank: Min. 0.2 μm Gold plating
G1 : Min. 0.76 μm Gold plating

● Components

①	Bracket pin
②	Shell A
③	Shell B
④	Insulator
⑤	Board lock
⑥	Contacts

● Dimensions

Part No.	A	B	C	D	E
PCS-XE68LFDT()N()+	63.9	57.9	41.91	46.13	50.71

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Recommended PCB layout (Connector side)
t = 1.6 mm

Part No.	Screws size	∅F
PCS-XE68LFDTN()+	M2.5×0.45	2.8
PCS-XE68LFDTUN()+	#4-40UNC	3.05
PCS-XE68LFDTU2N()+	#2-56UNC	2.5

Mating connectors: PCS-XE series IDC type male connector for cable

Right-angle through hole type female connector for PCB PCS-XE100LFD()-()+

1.27 mm pitch connector

For PCB

Right-angle Through hole

Screw lock

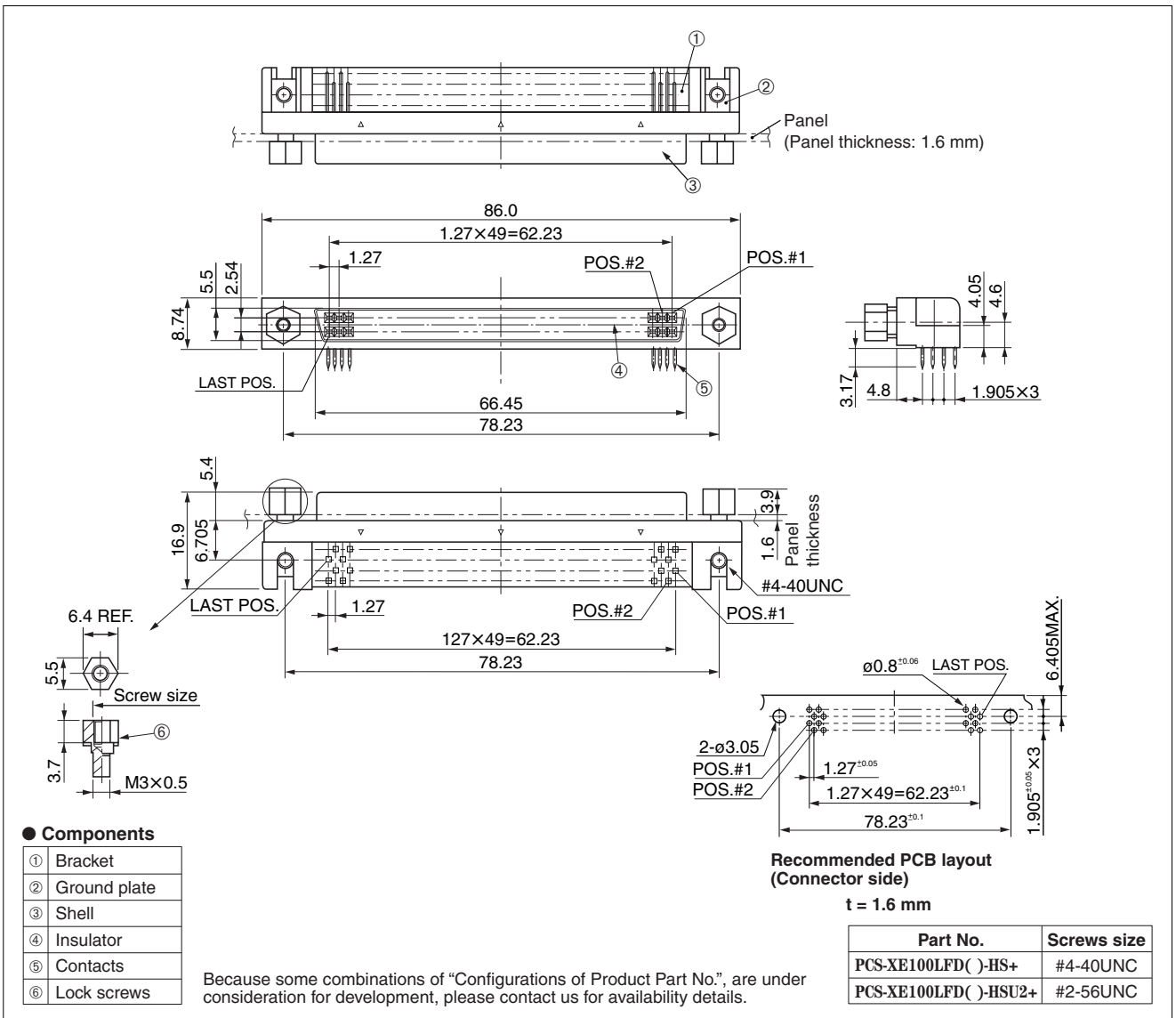
RoHS



● Configuration of product Part No.

PCS-XE 100 LFD ()-()+

- ① Series name
- ② No. of contacts: 100
- ③ Type of connector
LFD: Right-angle through hole type, female
- ④ Contact plating
Blank: Min. 0.2 μm Gold plating
G1 : Min. 0.76 μm Gold plating
- ⑤ Screw sizes for lock screws
HS : #4-40UNC (standard)
HSU2 : #2-56UNC



Mating connectors: PCS-XE series IDC type male connector for cable

Right-angle through hole type female connector for PCB PCS-XE()SLFD()()+

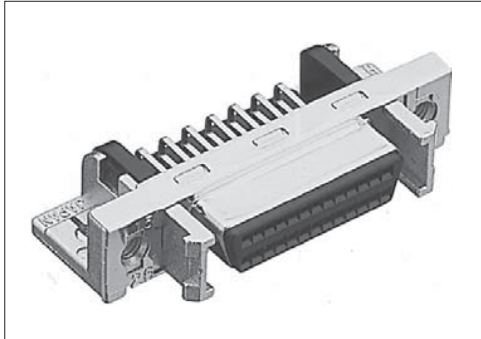
1.27 mm pitch connector

For PCB

Right-angle Through hole

SCSI-II

RoHS

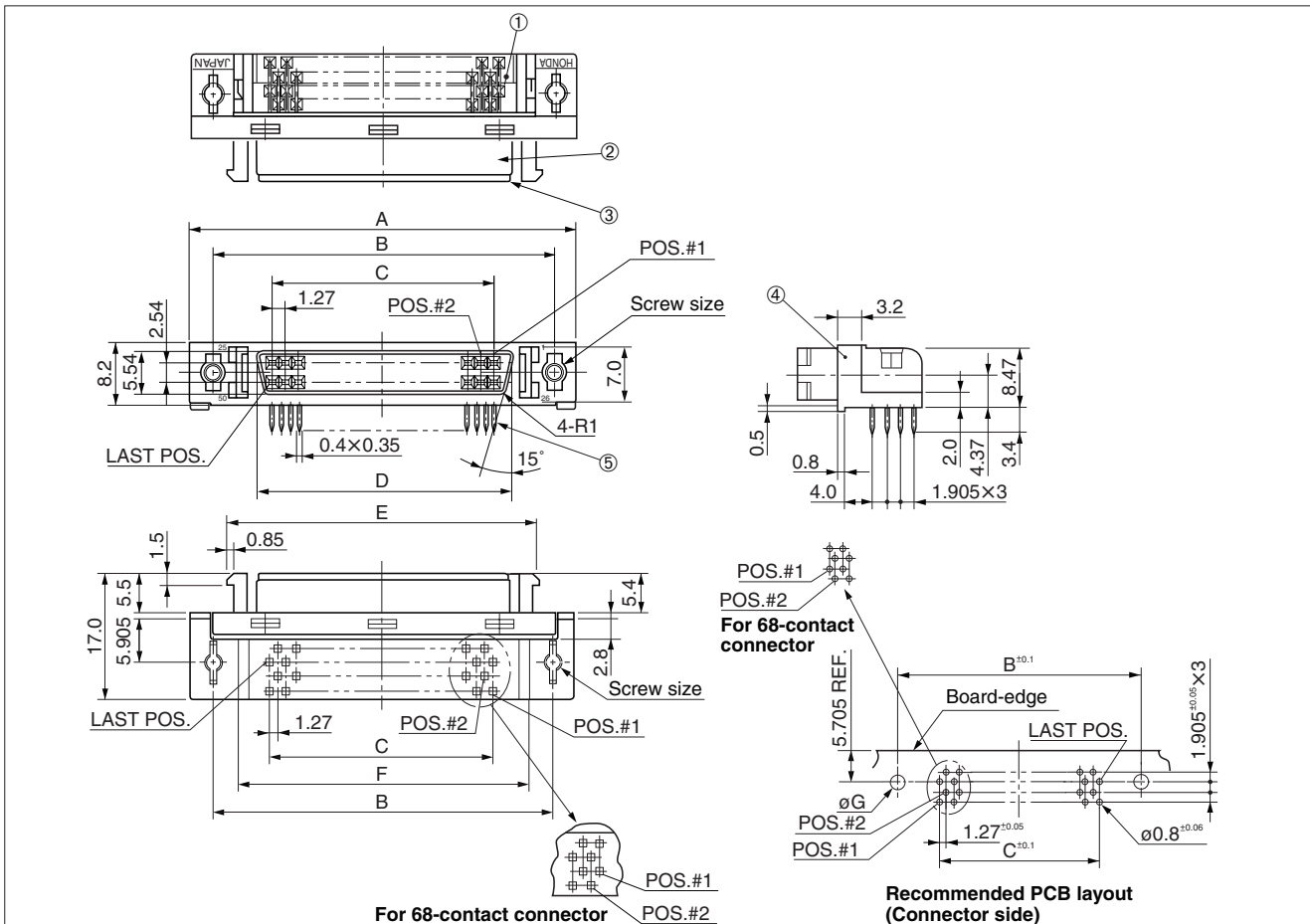


● Configuration of product Part No.

PCS-XE () S LFD () +

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 26, 50 or 68
- ③ Type of shell
S: Short shell
- ④ Type of connector
LFD: Right-angle through hole type, female
- ⑤ Screw size
Blank: M2.5×0.45 (standard)
U : #4-40UNC
U2 : #2-56UNC



● Components

①	Bracket
②	Shell A
③	Insulator
④	Shell B
⑤	Contacts

● Dimensions

Part No.	A	B	C	D	E	F
PCS-XE26SLFD()+	37.2	31.2	15.24	19.46	27.05	24.05
PCS-XE50SLFD()+	52.5	46.5	30.48	34.7	42.29	39.28
PCS-XE68SLFD()+	63.9	57.9	41.91	46.13	53.72	50.71

Part No.	Screws size	øG
PCS-XE()SLFD+	M2.5×0.45	2.8
PCS-XE()SLFDU+	#4-40UNC	3.05
PCS-XE()SLFDU2+	#2-56UNC	2.5

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

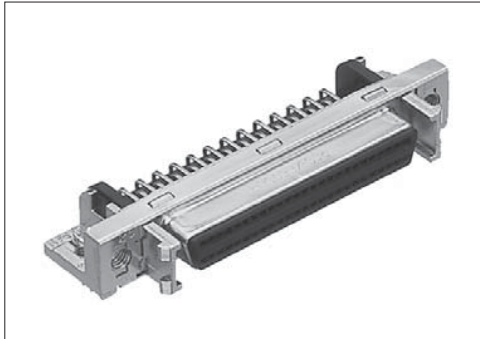
Mating connectors: PCS-XE series IDC type male connector for cable

Right-angle through hole type female connector for PCB
 PCS-XE()SLFDT()()+

For PCB
 Right-angle Through hole

RoHS

SCSI-II



● Configuration of product Part No.

PCS-XE () S LFD T () +
 ① ② ③ ④ ⑤ ⑥

- ① Series name
- ② No. of contacts: 26, 50 or 68
- ③ Type of shell
S: Short shell
- ④ Type of connector
LFD: Right-angle through hole type, female
- ⑤ Board lock pin: Provided
- ⑥ Screw size
Blank: M2.5×0.45 (standard)
U : #4-40UNC
U2 : #2-56UNC

● Components

①	Bracket
②	Shell B
③	Insulator
④	Shell A
⑤	Contacts
⑥	Board lock pin

● Dimensions

Part No.	A	B	C	D	E	F
PCS-XE26SLFDT()+	37.2	31.2	15.24	19.46	27.05	24.05
PCS-XE50SLFDT()+	52.5	46.5	30.48	34.7	42.29	39.28
PCS-XE68SLFDT()+	63.9	57.9	41.91	46.13	53.72	50.71

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

For 68-contact connector

Recommended PCB layout (Connector side)
 t = 1.6 mm

Mating connectors: PCS-XE series IDC type male connector for cable

Right-angle through hole type female connector for PCB PCS-XE()SLFD()N()+

1.27 mm pitch connector

For PCB

Right-angle Through hole

SCSI-III

RoHS

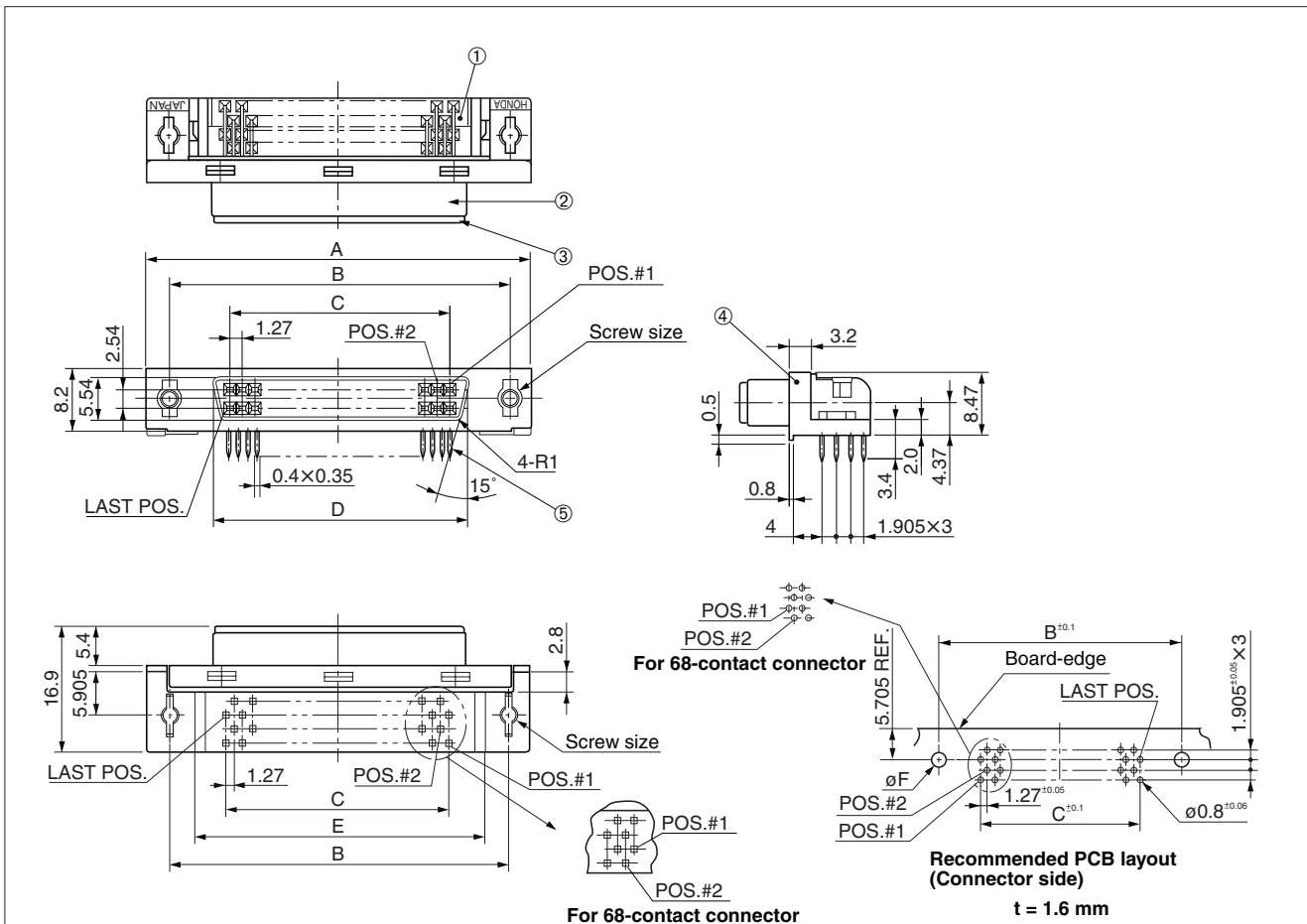


● Configuration of product Part No.

PCS-XE () S LFD () N +

① ② ③ ④ ⑤ ⑥

- ① Series name
- ② No. of contacts: 50 or 68
- ③ Type of shell
S: Short shell
- ④ Type of connector
LFD: Right-angle through hole type, female
- ⑤ Screw size
Blank: M2.5×0.45
U : #4-40UNC (standard)
U2 : #2-56UNC
- ⑥ Lock type
N: Screw lock



● Components

①	Bracket
②	Shell B
③	Insulator
④	Shell A
⑤	Contacts

● Dimensions

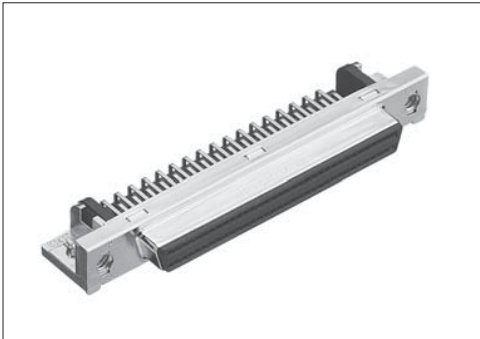
Part No.	A	B	C	D	E
PCS-XE50SLFD()N+	52.5	46.5	30.48	34.7	39.28
PCS-XE68SLFD()N+	63.9	57.9	41.91	46.13	50.71

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Part No.	Screws size	øF
PCS-XE()SLFDN+	M2.5×0.45	2.8
PCS-XE()SLFDUN+	#4-40UNC	3.05
PCS-XE()SLFDU2N+	#2-56UNC	2.5

Mating connectors: PCS-XE series IDC type male connector for cable

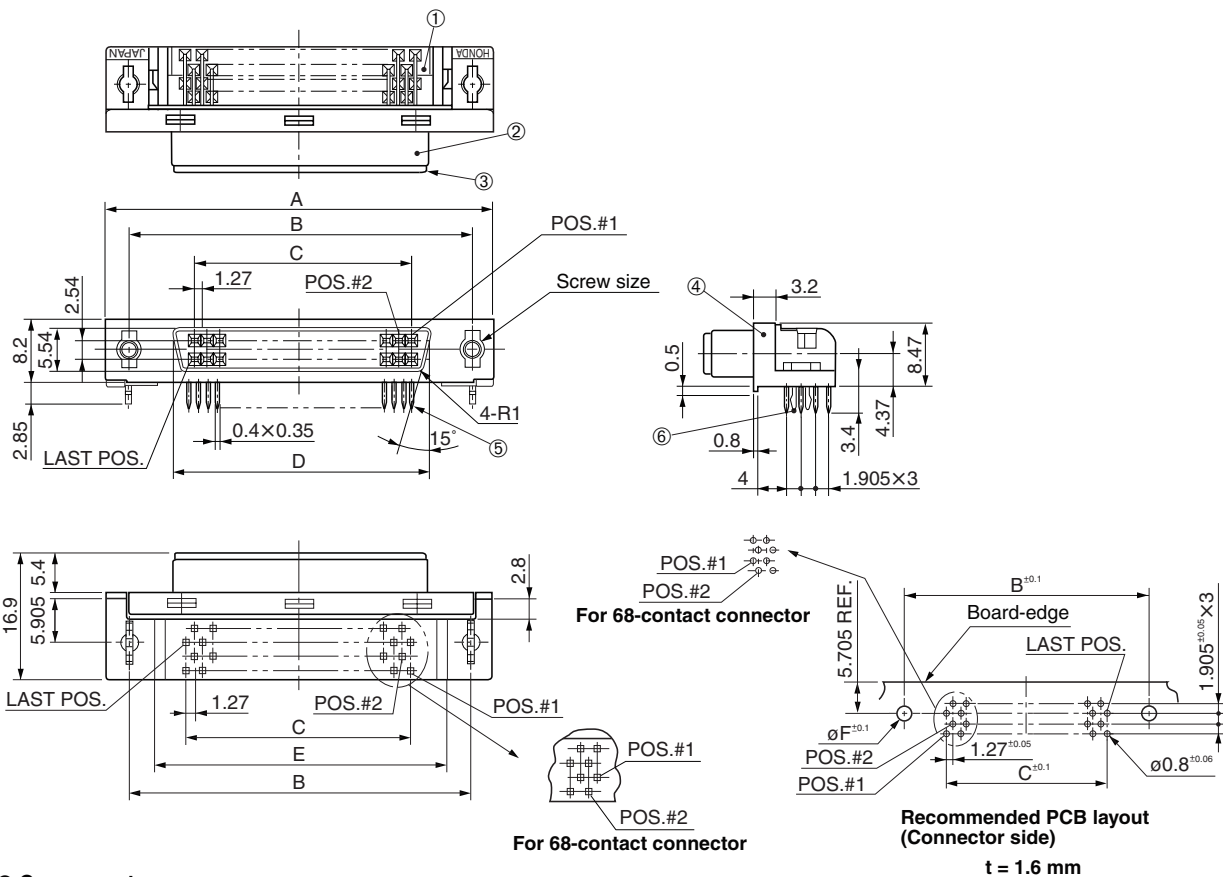
Right-angle through hole type female connector for PCB
 PCS-XE()SLFDT()N()+



● Configuration of product Part No.

PCS-XE () S LFD T () N +
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Series name
- ② No. of contacts: 50 or 68
- ③ Type of shell
S: Short shell
- ④ Type of connector
LFD: Right-angle through hole type, female
- ⑤ Board lock pin: Provided
- ⑥ Screw size
Blank: M2.5×0.45
U : #4-40UNC (standard)
U2 : #2-56UNC
- ⑦ Lock type
N: Screw lock



● Components

①	Bracket
②	Shell B
③	Insulator
④	Shell A
⑤	Contacts
⑥	Board lock pin

● Dimensions

Part No.	A	B	C	D	E
PCS-XE50SLFDT()N+	52.5	46.5	30.48	34.70	39.28
PCS-XE68SLFDT()N+	63.9	57.9	41.91	46.13	50.71

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Part No.	Screws size	øF
PCS-XE()SLFDTN+	M2.5×0.45	2.8
PCS-XE()SLFDTUN+	#4-40UNC	3.05
PCS-XE()SLFDTU2N+	#2-56UNC	2.5

Mating connectors: PCS-XE series IDC type male connector for cable

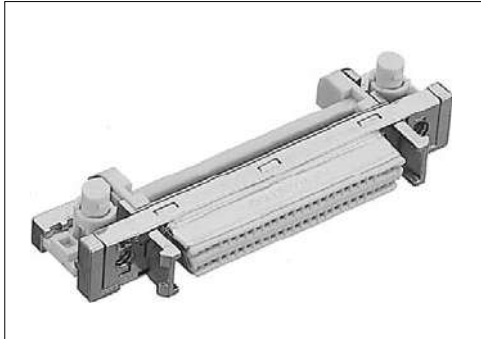
Right-angle SMT type female connector for PCB
 PCS-XE()SLFYTU()+

For PCB

Right-angle SMT

SCSI-II

RoHS



● Configuration of product Part No.

PCS-XE () S L F Y T U () +

① ② ③ ④ ⑤ ⑥ ⑦

- ① Series name
- ② No. of contacts: 26 or 50
- ③ Type of shell
S: Short shell
- ④ Type of connector
LFY: Right-angle SMT type, female
- ⑤ Board lock pin: Provided
- ⑥ Screw size
U: #4-40UNC
- ⑦ Contact plating
Blank: Min. 0.2 μm Gold plating
G1 : Min. 0.76 μm Gold plating

● Components

①	Contacts
②	Bracket
③	Shell A
④	Shell B
⑤	Insulator
⑥	Snap lock
⑦	Snap pin

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

● Dimensions

Part No.	A	B	C	D	E	F	G	H
PCS-XE26SLFYTU()+	42.0	31.2	15.24	19.46	20.93	27.05	7.62	15.875
PCS-XE50SLFYTU()+	57.24	46.5	30.48	34.7	36.17	42.29	15.24	31.115

Recommended PCB layout

Mating connectors: PCS-XE series IDC type male connector for cable

Straight Press-in type female connector for PCB
PCS-XE50SFP() ()

For PCB

Straight Press-in

RoHS

SCSI-II

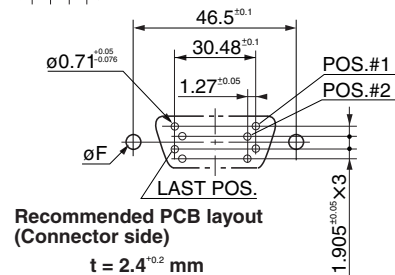
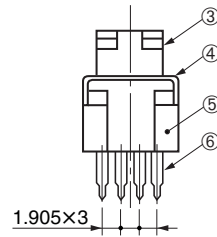
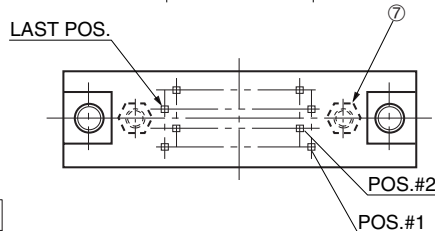
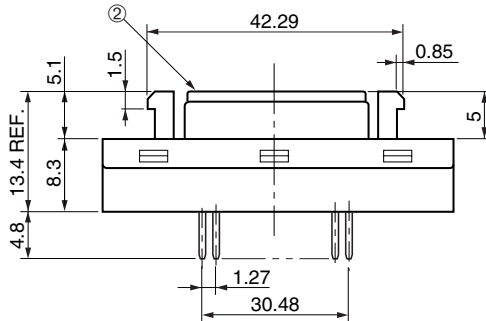
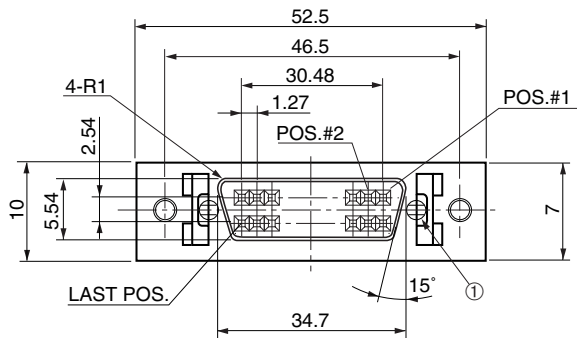


● Configuration of product Part No.

PCS-XE 50 SFP () ()

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 50
- ③ Type of connector
SFP: Straight Press-in type, female
- ④ Screw size
Blank: M2.5×0.45 (standard)
U : #4-40UNC
U2 : #2-56UNC
- ⑤ Contact plating
G1: Min. 0.76 μm Gold plating



● Components

①	Small flat head
②	Insulator A screw
③	Shell A
④	Shell B
⑤	Insulator B
⑥	Contacts
⑦	Hex. nuts

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

● Dimensions

Part No.	Screws size	øF
PCS-XE50SFP()	M2.5×0.45	2.8
PCS-XE50SFPU()	#4-40UNC	3.05
PCS-XE50SFPU2()	#2-56UNC	2.5

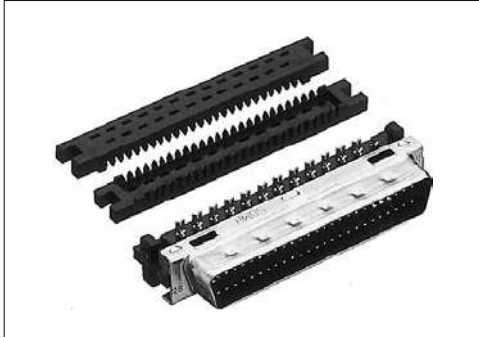
Mating connectors: PCS-XE series IDC type male connector for cable

IDC type male connector for cable
PCS-XE()M()()+

For cable

IDC (1.27 mm)

SCSI-II, SCSI-III



● Configuration of product Part No.

PCS-XE () M () () +

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 26, 50, 68 or 100
- ③ Type of contact: Male
- ④ Cable sizes for reference purposes (In case the cable insulation is made of PVC resin)
Blank : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of insulation is 0.8-1.0 mm. For discrete wire. (See Note #1)
A : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of insulation is 0.5-0.65 mm. For discrete wire.
B : AWG#30(7 / 0.1). Outside diameter of insulation is 0.5-0.65 mm. For discrete wire.
C : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). For flat cable, t = 1.0 mm MAX.
E : AWG#30(7 / 0.1). For flat cable, t = 1.0 mm MAX. (See Note #2)
J : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of insulation is 0.65-0.8 mm. For discrete wire.
K : AWG#30(7 / 0.1). Outside diameter of insulation is 0.65-0.8 mm. For discrete wire.
Q : AWG#30(7 / 0.1). Outside diameter of insulation is 0.8-1.0 mm. For discrete wire.
- ⑤ Contact plating
Blank : Min. 0.2 μm Gold plating
G1 : Min. 0.76 μm Gold plating

● Components

①	Contacts
②	Shell
③	Insulator
④	Spacer
⑤	Cable cover

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Note 1: P/N PCS-XE100M+ is not available.
Note 2: This 100-contact connector is not available for flat cable. (C, E)

● Dimensions

Part No.	A	B	C	D
PCS-XE26M()()+	25.46	15.24	19.61	25.46
PCS-XE50M()()+	40.7	30.48	34.85	40.7
PCS-XE68M()()+	52.13	41.91	46.28	52.1
PCS-XE100M()()+	72.45	62.23	66.6	72.4

Mating connectors: PCS-XE series straight or right-angle through hole type female connector for PCB.

PCS-XE series SMT type female connector.

For use with housings: SCSI-II: PCS-E()L(). SCSI-III: PCS-XEM()DL()N

Required tools: Discrete wire tool: PCS-K1 or FHAT-918B and FHPT-918A. Flat cable tool: PCS-K4

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

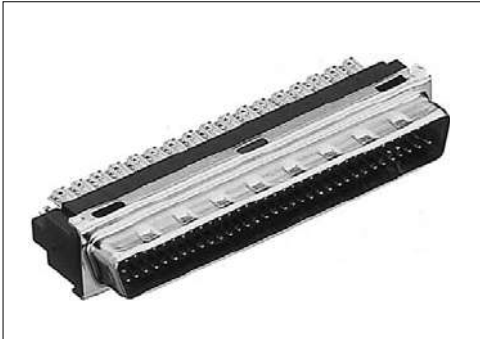
Soldering type male connector for cable
PCS-XES68MS+

For cable

Soldering

SCSI-III

RoHS

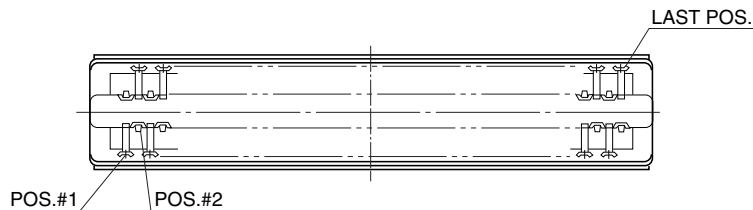
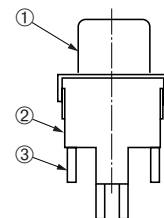
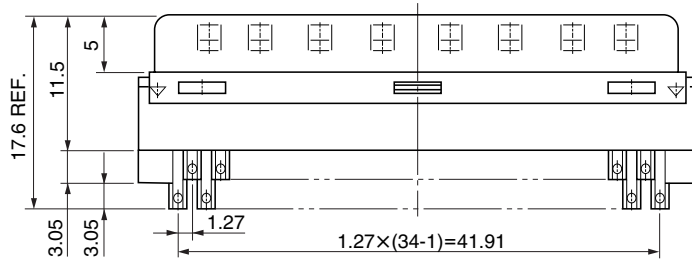
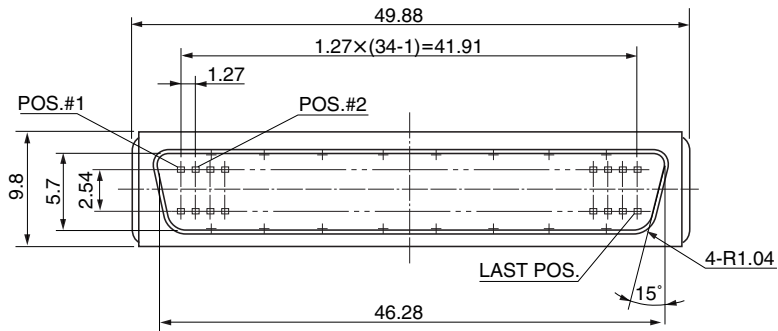


● Configuration of product Part No.

PCS-XES 68 MS+

① ② ③

- ① Series name
- ② No. of contacts: 68
- ③ Type of connector
MS: Soldering type, male



● Components

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

Mating connectors: PCS-XE series straight or right-angle through hole type female connector for PCB,

PCS-XE series SMT type female connector for PCB, PCS-XE series of IDC type female connectors for cable panel

For use with housings: PCS-SE68LDAU2N

IDC type female connector for panel
PCS-XE()SPF()()

For cable

IDC (1.27 mm)

RoHS

SCSI-II



● Configuration of product Part No.

PCS-XE () S P F () () ()

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Series name
- ② No. of contacts: 26, 50 or 68
- ③ Type of shell
S: Short shell
- ④ Panel
P: Panel mounting
- ⑤ Type of contact
F: IDC type, female
- ⑥ Cable sizes for reference purposes
(In case the cable insulation is made of PVC resin)
Blank : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of insulation is 0.8-1.0 mm. For discrete wire.
A : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of insulation is 0.5-0.65 mm. For discrete wire.
- B : AWG#30(7 / 0.1). Outside diameter of insulation is 0.5-0.65mm. For discrete wire.
- C : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). For flat cable, t = 1.0 mm.
- E : AWG#30(1 / 0.1). For flat cable, t = 1.0 mm.
- ⑦ Screw size
Blank : M2.5×0.54 (standard)
U : #4-40UNC
U2 : #2-56UNC
- ⑧ Contact plating
Blank : Min. 0.2 μm Gold plating
G1 : Min. 0.76 μm Gold plating

Components

①	Insulator
②	Shell
③	Bracket
④	Spacer
⑤	Contacts
⑥	Cable cover

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Dimensions

Part No.	A	B	C	D	E	F
PCS-XE26SPF() () ()	37.2	31.2	15.24	19.46	27.05	25.46
PCS-XE50SPF() () ()	52.5	46.5	30.48	34.7	42.29	40.7
PCS-XE68SPF() () ()	63.9	57.9	41.91	46.13	53.72	52.1

Note 1: This 26-contact connector is not available for screw size, #4-40UNC or #2-56UNC.

Mating connectors: PCS-XE series IDC type male connector for cable

IDC type female connector for panel
PCS-XED() ()FA() ()+

1.27 mm pitch connector

For cable

IDC (0.635 mm)

SCSI-II

RoHS



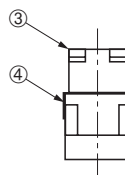
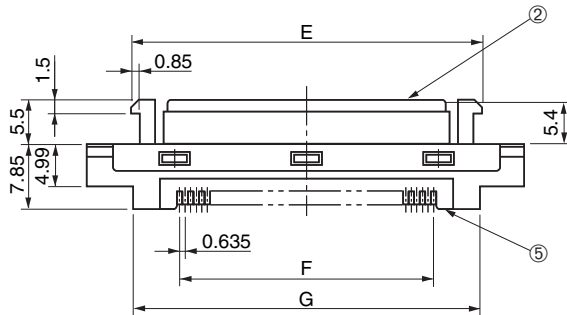
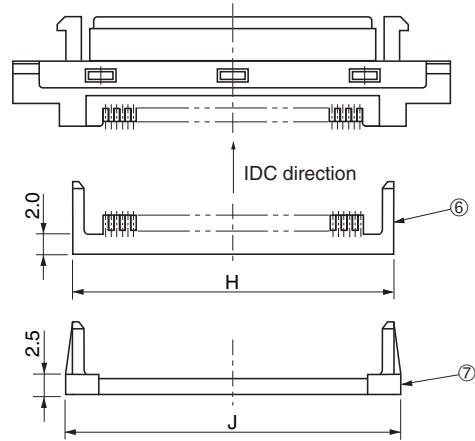
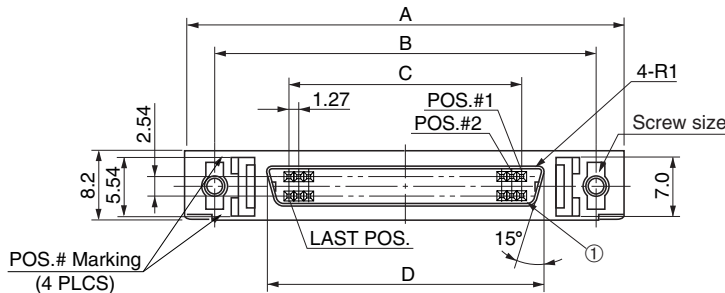
● Configuration of product Part No.

PCS-XED () () F A () ()+
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Series name
- ② No. of contacts: 50 or 68
- ③ Strain relief
Blank: Not provided
R : Provided
- ④ Type of contact
F: Female
- ⑤ Cable size
A: AWG#30(7 / 0.1) For flat cable
- ⑥ Screw size
Blank: M2.5×0.54 (standard)
U : #4-40UNC
U2 : #2-56UNC
- ⑦ Contact plating
Blank: Min. 0.2 μm Gold plating
G1 : Min. 0.76 μm Gold plating

● Dimensions

Part No.	A	B	C	D	E	F	G	H	J
PCS-XED50()FA() ()	52.5	46.5	30.48	34.7	42.29	31.115	42.1	37.79	39.49
PCS-XED68()FA() ()	63.9	57.9	41.91	46.13	53.72	42.545	53.47	49.22	50.92



● Terminal-to-conductor connection (In case of the 50-contact connector)

Terminal No.	Conductor No.
1	1
26	2
2	3
27	4
...	...
24	47
49	48
25	49
50	50

● Components

- ① Contacts
- ② Insulator
- ③ Shell A
- ④ Shell B
- ⑤ Cable housing A
- ⑥ Cable housing B
- ⑦ Strain relief



Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Part No.	Screws size
PCS-XED() ()FA()+	M2.5×0.45
PCS-XED() ()FAU()+	#4-40UNC
PCS-XED() ()FAU2()+	#2-56UNC

Mating connectors: PCS-XE series IDC type male connector for cable

Required tools: Locator tool, MLPT-0004A for 68 contacts or MLPT-0004B for 50 contacts

IDC type female connector for panel
PCS-XED68()FAUN()+

For cable

IDC (0.635 mm)

RoHS

SCSI-III

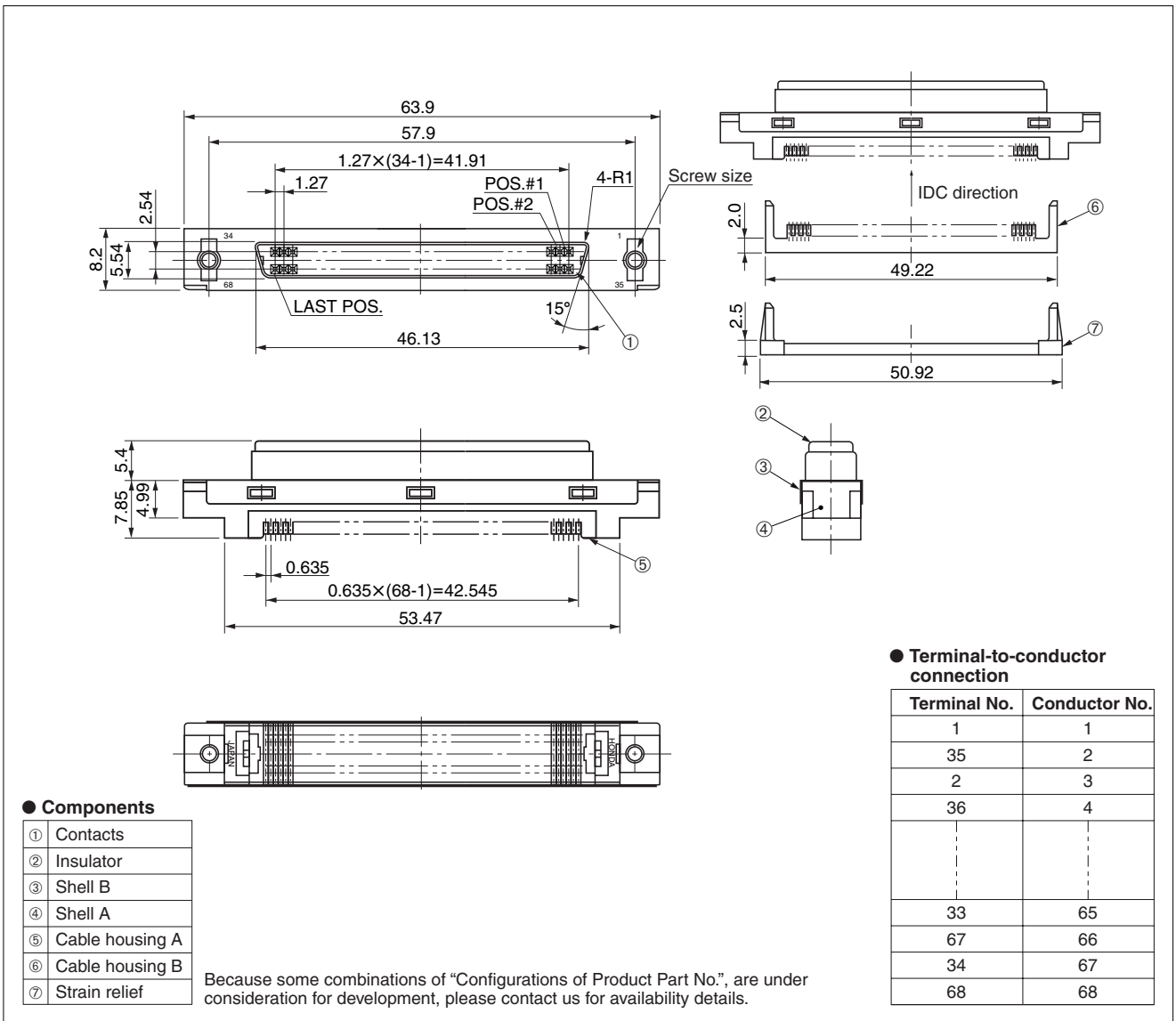


● Configuration of product Part No.

PCS-XED 68 () F A U N ()+

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Series name
- ② No. of contacts: 68
- ③ Strain relief
Blank: Not provided
R : Provided
- ④ Type of contact
F: Female
- ⑤ Cable size
A: AWG#30(7 / 0.1) For flat cable
- ⑥ Screw size
U: #4-40UNC
- ⑦ Lock type
N: Screw lock
- ⑧ Contact plating
Blank: Min. 0.2 μm Gold plating
G1 : Min. 0.76 μm Gold plating



● Components

①	Contacts
②	Insulator
③	Shell B
④	Shell A
⑤	Cable housing A
⑥	Cable housing B
⑦	Strain relief

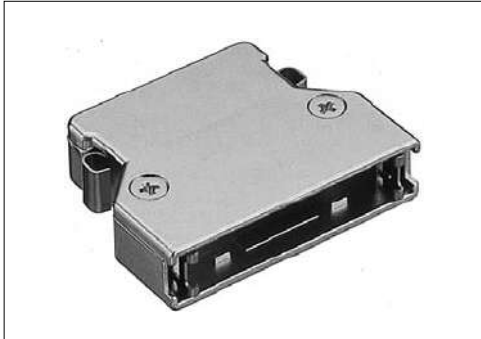
Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Mating connectors: PCS-XE series IDC type male connector for cable

Required tools: Locator tool, MLPT-0004A for 68 contacts or MLPT-0004B for 50 contacts

EMI-filtered vertical type die-cast material backshell for standard cable
PCS-E () L ()

Backshell
Vertical
EMI-filtered



● Configuration of product Part No.

PCS-E () L ()
 ① ② ③ ④

- ① Series name
- ② No. of contacts: 20, 28, 36, 50 or 68
- ③ Type of backshell
 L: Vertical type backshell for standard cable
- ④ Identification mark (A, B or C) of cable-end-outlet dimension.
 Cable diameters for reference purposes are shown in the Dimension table as below.

● Components

①	Cover A
②	Cover B
③	Latch
④	⊕ Small-sized Phillips flat head screw
⑤	Cable clamp
⑥	⊕ Small-sized Phillips head screw

● Dimensions

Part No.	A	B	C	Outside diameter of cable for reference purposes
PCS-E20LA	30.0	20.3	6×5	ø5.5
PCS-E20LB			8×7	ø7.5
PCS-E28LA	35.0	25.3	6.5×5	ø5.5, ø5.9
PCS-E28LB			9.5×8.5	ø9
PCS-E68LA	60.3	50.6	8.5×7.5	ø8.1

For use with connector: PCS-E series IDC type or soldering type female connector for cable
 PCS-XE series IDC type male connector for cable

Mating guide structure vertical type die-cast material backshell for standard cable
 PCS-E()LG()

Backshell

Vertical

EMI-filtered

RoHS



● Configuration of product Part No.

PCS-E () LG ()
 ① ② ③ ④

- ① Series name
- ② No. of contacts: 28, 36 or 50
- ③ Type of backshell
 LG: Mating guide structure vertical type backshell for standard cable
- ④ Identification mark (A or B) of cable-end-outlet dimension.
 Cable diameters for reference purposes are shown in the Dimension table below.

● Components

①	Cover A
②	Cover B
③	Latch
④	Cable clamp
⑤	⊕ Small-sized Phillips head screw
⑥	⊕ Small-sized Phillips flat head screw

● Dimensions

Part No.	A	B	C	D	E	Outside diameter of cable for reference purposes
PCS-E28LGB	35.0	25.3	30	16	8.5×9.5	ø9
PCS-E36LGA	40.2	30.5	34	31	7×7.5	ø7.5
PCS-E50LGA	48.9	39.2	42	39	7×8.5	ø8

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

For use with connector: PCS-E series IDC type or soldering type female connector for cable

PCS-XE series IDC type male connector for cable

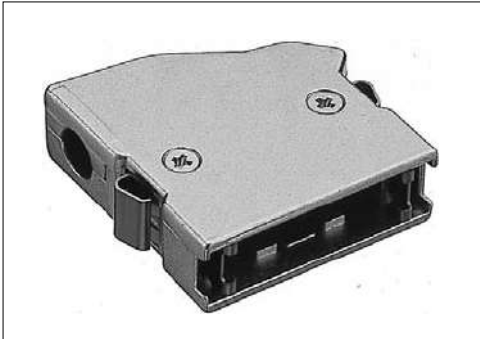
**Horizontal type die-cast material backshell
for standard cable
PCS-E()W**

Backshell

Horizontal

EMI-filtered

RoHS



● Configuration of product Part No.

PCS-E () W

① ② ③

- ① Series name
- ② No. of contacts: 20, 28, 36 or 50
- ③ Type of backshell
W: Horizontal type backshell for standard cable

● Components

①	Cover A
②	Cover B
③	Latch
④	⊕ Small-sized Phillips flat head screw
⑤	Cable clamp
⑥	⊕ Small-sized Phillips head screw

● Dimensions

Part No.	A	Outside diameter of cable for reference purposes
PCS-E20W	30.0	ø5.6
PCS-E28W	35.0	ø6
PCS-E36W	40.2	ø8.2
PCS-E50W	48.9	ø7.8

For use with connector: PCS-E series IDC type or soldering type female connector for cable
PCS-XE series IDC type male connector for cable

Vertical type plastic backshell for flat cable
PCS-E()LT+

Backshell

Vertical

RoHS

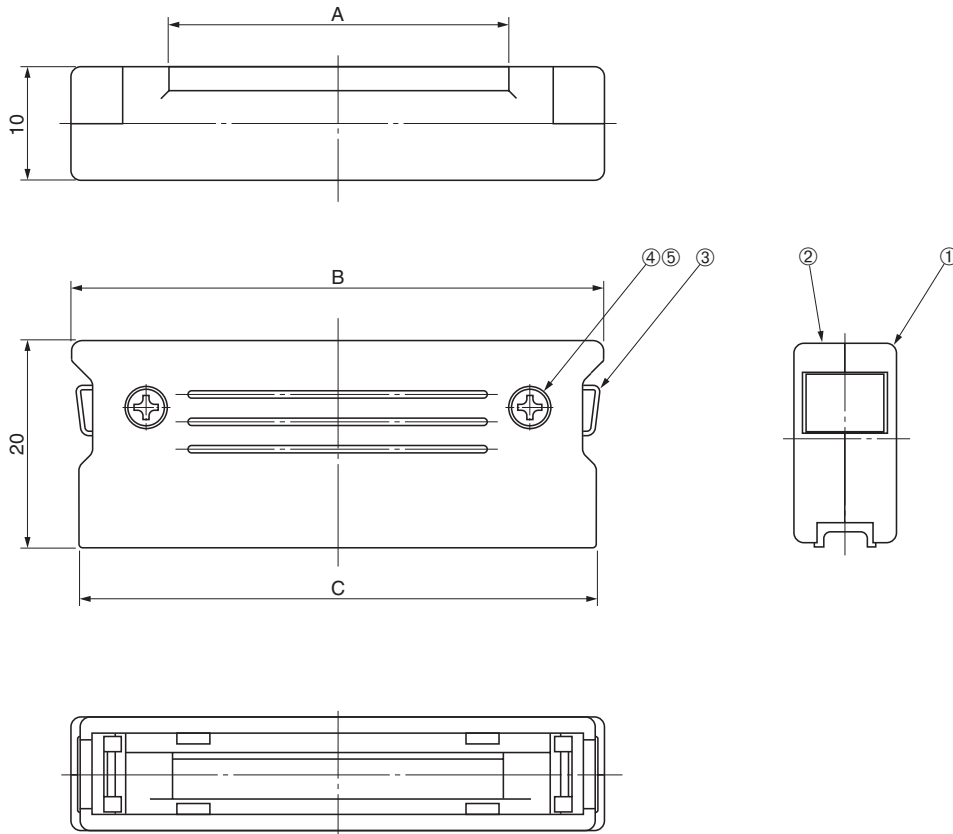


● Configuration of product Part No.

PCS-E () LT+

① ② ③

- ① Series name
- ② No. of contacts: 28, 36 or 50
- ③ Type of backshell
 LT: Vertical type backshell for flat cable



● Components

①	Cover B
②	Cover A
③	Latch
④	⊕ Small-sized Phillips head screw
⑤	Hex nuts

● Dimensions

Part No.	A	B	C
PCS-E28LT+	18.3	37.0	35.0
PCS-E36LT+	23.4	42.2	40.2
PCS-E50LT+	32.2	50.9	48.9

For use with connector: PCS-E series IDC type female connector for cable
 PCS-XE series IDC type male connector for cable

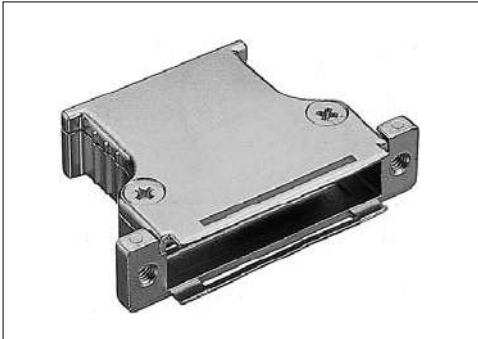
**Vertical type die-cast material backshell
for cable extension
PCS-E()PML()**

Backshell

Vertical

EMI-filtered

RoHS

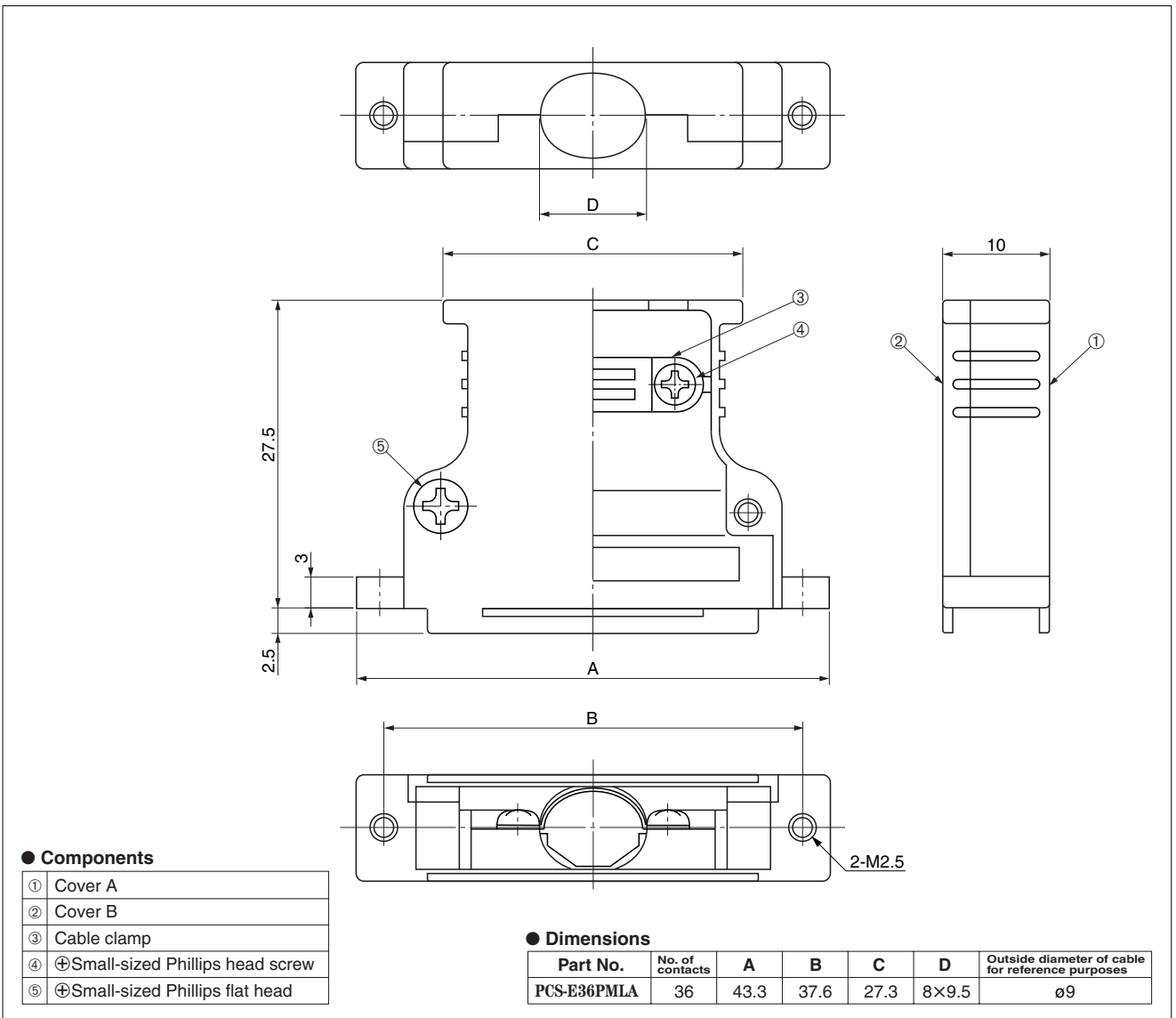


● Configuration of product Part No.

PCS-E () PML ()

① ② ③ ④

- ① Series name
- ② No. of contacts: 36
- ③ Type of backshell
PML: Vertical type backshell for PCS-E()PM()-H
- ④ Outside diameter of cable for reference purpose
A: 9 mm diameter



For use with connector: PCS-E()PM()-H

Vertical type die-cast material backshell for standard cable with provision for preventing misinsertion
PCS-E () LP () - () +R

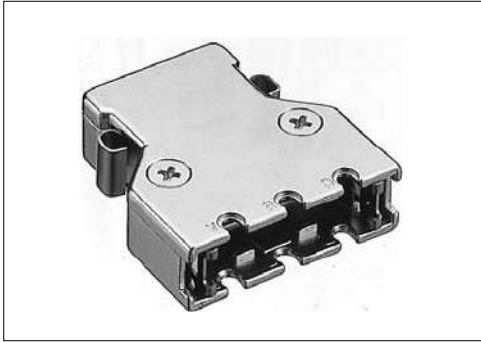
RoHS

1.27 mm pitch connector

Backshell

Vertical

EMI-filtered



● Configuration of product Part No.

PCS-E () LP () - () +R

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 20, 28, 36, 50 or 68
- ③ Type of backshell
LP: Vertical type backshell for standard cables with provision for preventing misinsertion
- ④ Identification mark (A, B or C) of cable-end-outlet dimension. Cable diameters for reference purposes are shown in the Dimension table as shown below.
- ⑤ Key-riveted position (Refer to the Dimension table as shown below) for preventing misinsertion.

● Components

①	Cover A
②	Cover B
③	Latch
④	Cable clamp
⑤	⊕ Small-sized Phillips head screw
⑥	⊕ Small-sized Phillips flat head screw
⑦	Key rivet

● Dimensions

Part No.	A	B	C	Outside diameter of cable for reference purposes	Key-riveted position No.
PCS-E20LPA-()+R	30.0	20.3	6×5	ø5.5	1B, 1C, 2A, 3A
PCS-E20LPB-()+R			8×7	ø7.5	
PCS-E28LPA-()+R	35.0	25.3	6.5×5	ø5.5, ø5.9	1D, 2C, 3B, 4A
PCS-E28LPB-()+R			10×8	ø9	
PCS-E28LPC-()+R			11×8	ø10	
PCS-E36LPA-()+R	40.2	30.5	10×8	ø8.4, ø9	1E, 2D, 4B, 5A
PCS-E50LPA-()+R	48.9	39.2	10×8	ø7.3	
PCS-E68LPB-()+R	60.3	50.6	7.5×6	ø6.5	

For 20-contact backshell For 28-contact backshell For 36-contact backshell

For 50-contact backshell For 68-contact backshell

For use with connector: PCS-E series IDC type or soldering type female connector for cable

PCS-XE series IDC type male connector for cable

Accessories: Key-rivets for preventing misinsertion, PCS-E-PK+R

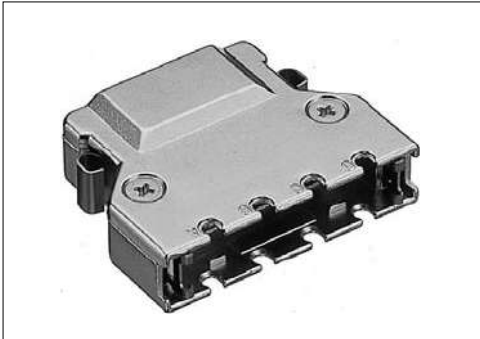
Vertical type die-cast material backshell for larger diameter cable with provision for preventing misinsertion
PCS-E()LKP()-()+R

Backshell

Vertical

EMI-filtered

RoHS



● Configuration of product Part No.

PCS-E () LKP ()- ()+R

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 36, 50, 68 or 80
- ③ Type of backshell
LKP: Vertical type backshell for larger diameter cables with provision for preventing misinsertion
- ④ Identification mark (A, B or C) of cable-end-outlet dimension. Cable diameters for reference purposes are shown in the Dimension table as shown below.
- ⑤ Key-riveted position (Refer to the Dimension table as shown below) for preventing misinsertion.

● Components

①	Cable clamp
②	⊕Small-sized Phillips head screw
③	Latch
④	Cover B
⑤	Cover A
⑥	⊕Small-sized Phillips flat head screw
⑦	Key rivet

● Dimensions

Part No.	A	B	C	D	Outside diameter of cable for reference purposes	Key-riveted position No.	
PCS-E36LKPA-()+R	10×11	30.5	40.2	11.6	ø8	1D, 2C, 3B, 4A	
PCS-E36LKPB-()+R					ø10.5		
PCS-E50LKPA-()+R	10×12	39.2	48.9		ø10		1E, 2D, 4B, 5A
PCS-E50LKPC-()+R					ø11.5		
PCS-E68LKPA-()+R	10×13	50.6	60.3		ø12	ø10	
PCS-E68LKPB-()+R					ø10		
PCS-E80LKPA-()+R	10×10	58.2	67.9	15.0	ø9.5		
PCS-E80LKPB-()+R	15×13.6				ø13		

For 36-contact backshell For 50,68 and 80-contact backshell

For use with connector: PCS-E series IDC type or soldering type female connector for cable

PCS-XE series IDC type male connector for cable

Accessories: Key-rivets for preventing misinsertion, PCS-E-PK+R

Vertical type die-cast material backshell for larger diameter cable with mating guide for preventing misinsertion
PCS-E96LKP()-()+R

RoHS

Backshell

Vertical

EMI-filtered

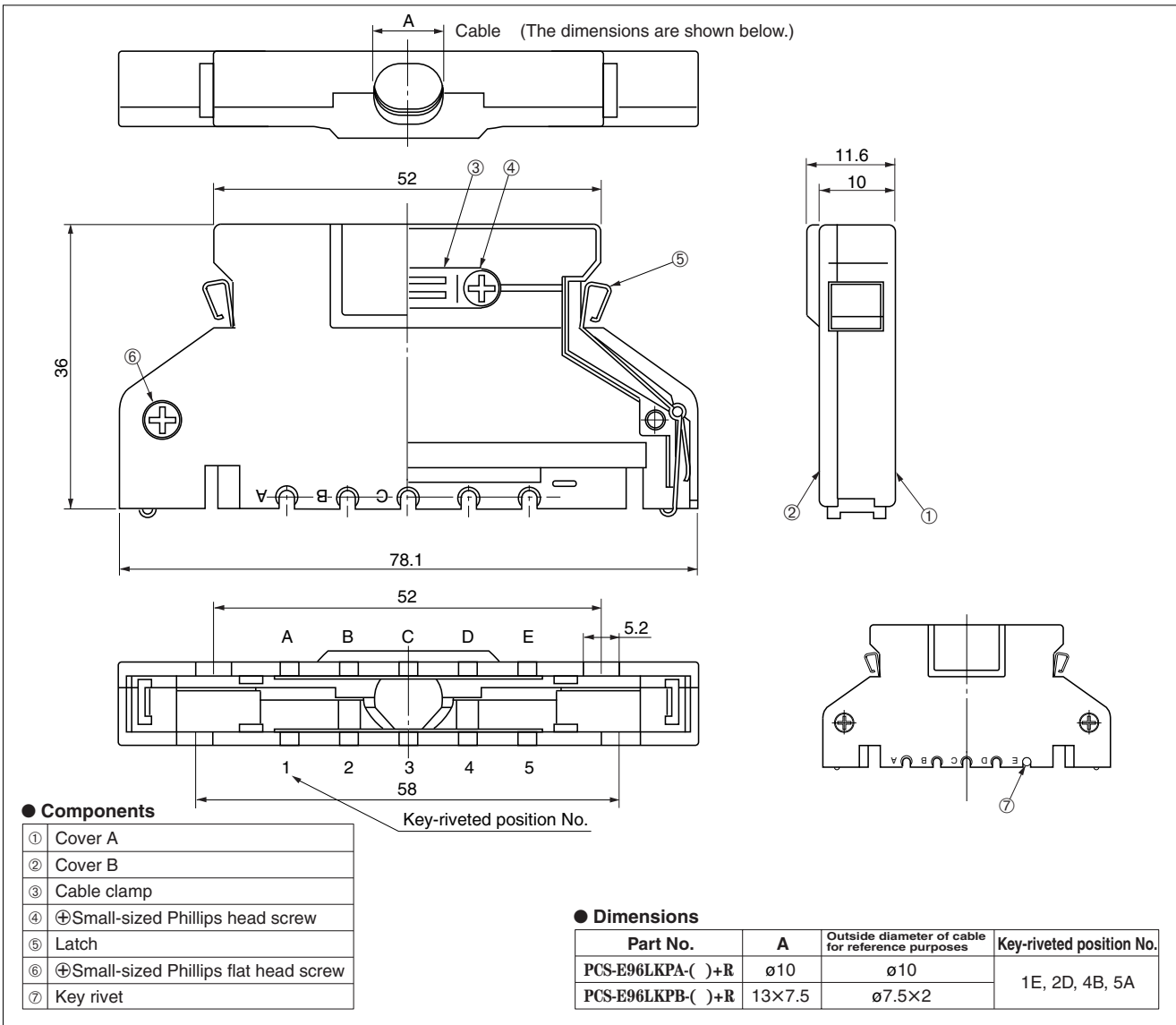


● Configuration of product Part No.

PCS-E 96 LKP ()- ()+R

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 96
- ③ Type of backshell
LKP: Vertical type backshell for larger diameter cables with provision for preventing misinsertion
- ④ Identification mark (A or B) of cable-end-outlet dimension. Cable diameters for reference purposes are shown in the Dimension table as shown below.
- ⑤ Key-riveted position (Refer to the Dimension table as shown below) for preventing misinsertion.



For use with connector: PCS-E series IDC type female connector for cable

PCS-XE series IDC type male connector for cable

Accessories: Key-rivets for preventing misinsertion, PCS-E-PK+R

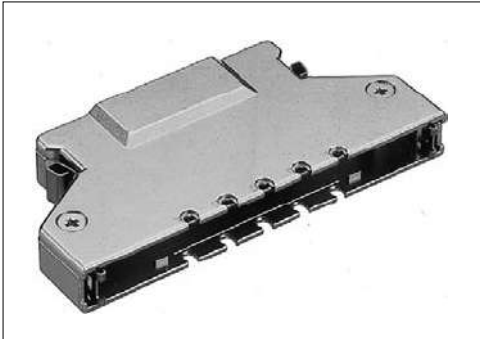
Vertical type die-cast material backshell for larger diameter cable with provision for preventing misinsertion
PCS-E96LKP1A-()+R

Backshell

Vertical

EMI-filtered

RoHS

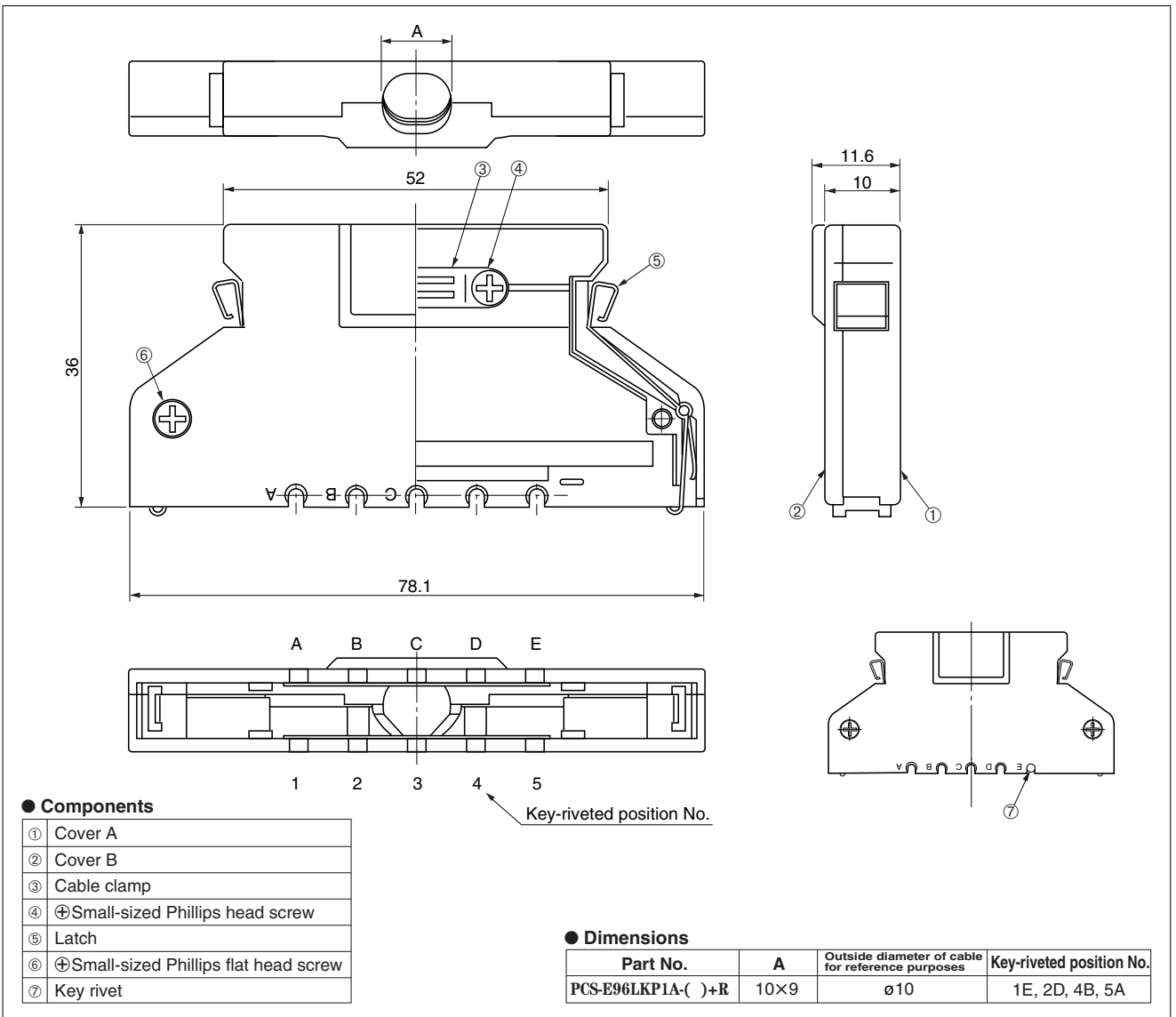


● Configuration of product Part No.

PCS-E 96 LKP1 A- ()+R

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 96
- ③ Type of backshell
LKP1: Vertical type backshell for larger diameter cables with provision for preventing misinsertion
- ④ Identification mark (A) of cable-end-outlet dimension. Cable diameters for reference purposes are shown in the Dimension table as shown below.
- ⑤ Key-riveted position (Refer to the Dimension table as shown below) for preventing misinsertion.



● Components

①	Cover A
②	Cover B
③	Cable clamp
④	⊕ Small-sized Phillips head screw
⑤	Latch
⑥	⊕ Small-sized Phillips flat head screw
⑦	Key rivet

● Dimensions

Part No.	A	Outside diameter of cable for reference purposes	Key-riveted position No.
PCS-E96LKP1A-()+R	10×9	ø10	1E, 2D, 4B, 5A

For use with connector: PCS-E series IDC type female connector for cable

PCS-XE series IDC type male connector for cable

Accessories: Key-rivets for preventing misinsertion, PCS-E-PK+R

Vertical type die-cast material backshell for standard cable with mating guide for preventing misinsertion
PCS-E () LGP () - () +R

Backshell

Vertical

EMI-filtered

RoHS



● Configuration of product Part No.

PCS-E () LGP () - () +R

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 26 or 36
- ③ Type of backshell
LGP: Vertical type backshell for standard cables with mating guide for preventing misinsertion
- ④ Identification mark (A) of cable-end-outlet dimension. Cable diameters for reference purposes are shown in the Dimension table as shown below.
- ⑤ Key-riveted position (Refer to the Dimension table as shown below) for preventing misinsertion.

32

10

1.5

Guide position of the 28-contact backshell

Key-riveted position No.

● Components

①	Cover A
②	Cover B
③	Latch
④	Cable clamp
⑤	⊕ Small-sized Phillips head screw
⑥	⊕ Small-sized Phillips flat head screw
⑦	Key rivet

Part No.	A	B	C	D	E	Outside diameter of cable for reference purposes	Key-riveted position No.
PCS-E28LGPA-()+R	35.0	25.3	30	16	5×6.5	ø5.5, ø5.9	1D, 2C, 3B, 4A
PCS-E36LGPA-()+R	40.2	30.5	34	31	8×9.5	ø8.4, ø9	

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

For use with connector: PCS-E series IDC type or soldering type female connector for cable

PCS-XE series IDC type male connector for cable

Accessories: Key-rivets for preventing misinsertion, PCS-E-PK+R

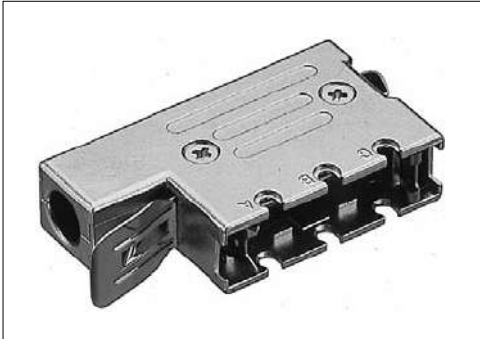
Horizontal type die-cast material backshell for standard cable with provision for preventing misinsertion
PCS-E()WSP-()+R

Backshell

Horizontal

EMI-filtered

RoHS

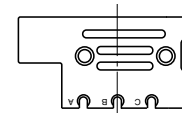
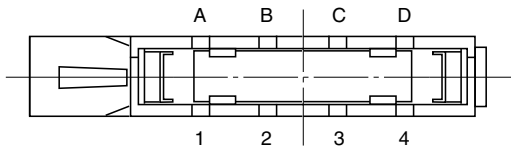
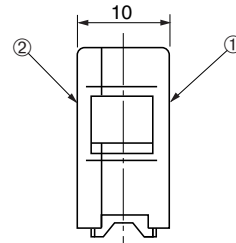
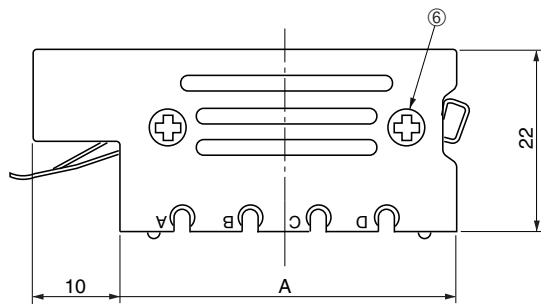


● Configuration of product Part No.

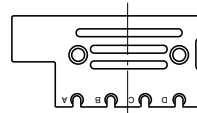
PCS-E () WSP- ()+R

① ② ③ ④

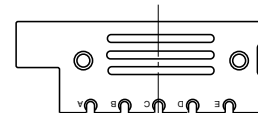
- ① Series name
- ② No. of contacts: 20, 28, 36 or 50
- ③ Type of backshell
 WSP: Horizontal type backshell for standard cables with mating guide for preventing misinsertion
- ④ Key-riveted position (Refer to the Dimension table as shown below) for preventing misinsertion.



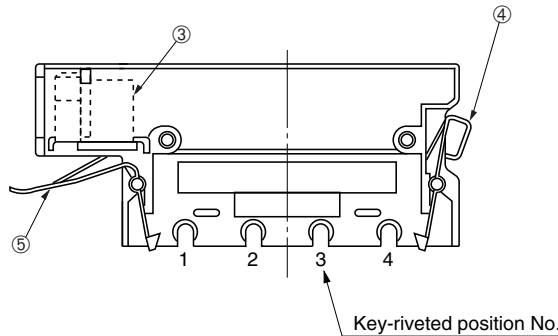
The form of the 20-contact backshell



The form of the 28-contact backshell



The form of the 50-contact backshell



● Components

①	Cover A
②	Cover B
③	Cable clamp
④	Latch A
⑤	Latch B
⑥	⊕ Small-sized Phillips flat head screw

● Dimensions

Part No.	A	B	Outside diameter of cable for reference purposes	Key-riveted position No.
PCS-E20WSP-()+R	30.0	ø6	ø5	1B, 1C, 2A, 3A
PCS-E28WSP-()+R	35.0		ø5.5	1D, 2C, 3B, 4A
PCS-E36WSP-()+R	40.2	ø7.6	ø6	
PCS-E50WSP-()+R	48.9		ø6.5	1E, 2D, 4B, 5A

For use with connector: PCS-E series IDC type or soldering type female connector for cable

PCR series IDC type or soldering type female connector for cable

PCS-XE series IDC type male connectors for cable

Accessories: Key-rivets for preventing misinsertion, PCS-E-PK+R

Horizontal type die-cast material backshell for larger diameter cable with provision for preventing misinsertion
PCS-E()WKP()-()+R

RoHS

Backshell

Horizontal

EMI-filtered



● Configuration of product Part No.

PCS-E () WKP ()- ()+R

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 36, 50, 68, 80
- ③ Type of backshell
WKP: Horizontal type backshell for larger diameter cables with mating guide for preventing misinsertion
- ④ Identification mark (A or B) of cable-end-outlet dimension. Cable diameters for reference purposes are shown in the Dimension table as shown below.
- ⑤ Key-riveted position (Refer to the Dimension table as shown below) for preventing misinsertion.

● Components

①	Cable clamp
②	⊕Small-sized Phillips head screw
③	Latch
④	Cover B
⑤	Cover A
⑥	⊕Small-sized Phillips flat head screw
⑦	Key rivet

● Dimensions

Part No.	A	B	Outside diameter of cable for reference purposes	Key-riveted position No.
PCS-E36WKP-()+R	40.2	10.5×9.5	ø9.5	1D, 2C, 3B, 4A
PCS-E50WKP-()+R	48.9	12×10	ø11.5	1E, 2D, 4B, 5A
PCS-E68WKP-()+R	60.3	11×10	ø10.5	
PCS-E80WKP-()+R	67.9	10.5×9.5	ø9.5	

For use with connector: PCS-E series IDC type or soldering type female connector for cable

PCS-XE series IDC type male connector for cable

Accessories: Key-rivets for preventing misinsertion, PCS-E-PK+R

Horizontal type die-cast material backshell for larger diameter cable with provision for preventing misinsertion
PCS-E96WKP()-()+R

Backshell

Horizontal

EMI-filtered

RoHS



● Configuration of product Part No.

PCS-E 96 WKP ()- ()+R

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 96
- ③ Type of backshell
WKP: Horizontal type backshell for larger diameter cables with mating guide for preventing misinsertion
- ④ Identification mark (B) of cable-end-outlet dimension.
Cable diameters for reference purposes are shown in the Dimension table as shown below.
- ⑤ Key-riveted position (Refer to the Dimension table as shown below) for preventing misinsertion.

Technical drawing showing front, side, and cross-sectional views of the PCS-E 96 WKP backshell. Dimensions include 43.2, 1.5, 78.1, 11.6, A, B, 10.0, and 1E, 2D, 4B, 5A. Callouts 1-7 identify components and key-riveted positions.

● Components

①	Cable clamp
②	⊕Small-sized Phillips head screw
③	Latch
④	Cover B
⑤	Cover A
⑥	⊕Small-sized Phillips flat head screw
⑦	Key rivet

● Dimensions

Part No.	No. of contacts	A	B	Outside diameter of cable for reference purposes	Key-riveted position No.
PCS-E96WKP()+R	96	10	15	ø10	1E, 2D, 4B, 5A

For use with connector: PCS-E series IDC type or soldering type female connector for cable

PCR series IDC type or soldering type female connector for cable

PCS-XE series IDC type male connector for cable

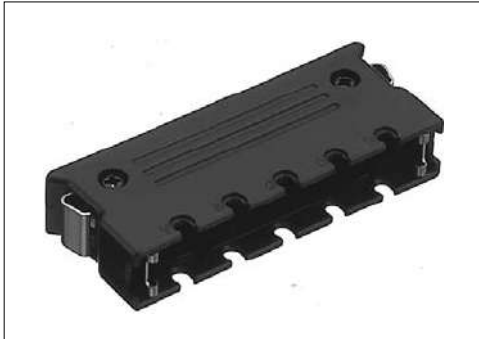
Accessories: Key-rivets for preventing misinsertion, PCS-E-PK+R

Vertical type die-cast material backshell for flat cable with provision for preventing misinsertion
PCS-E()LTP-()+R

Backshell

Vertical

RoHS

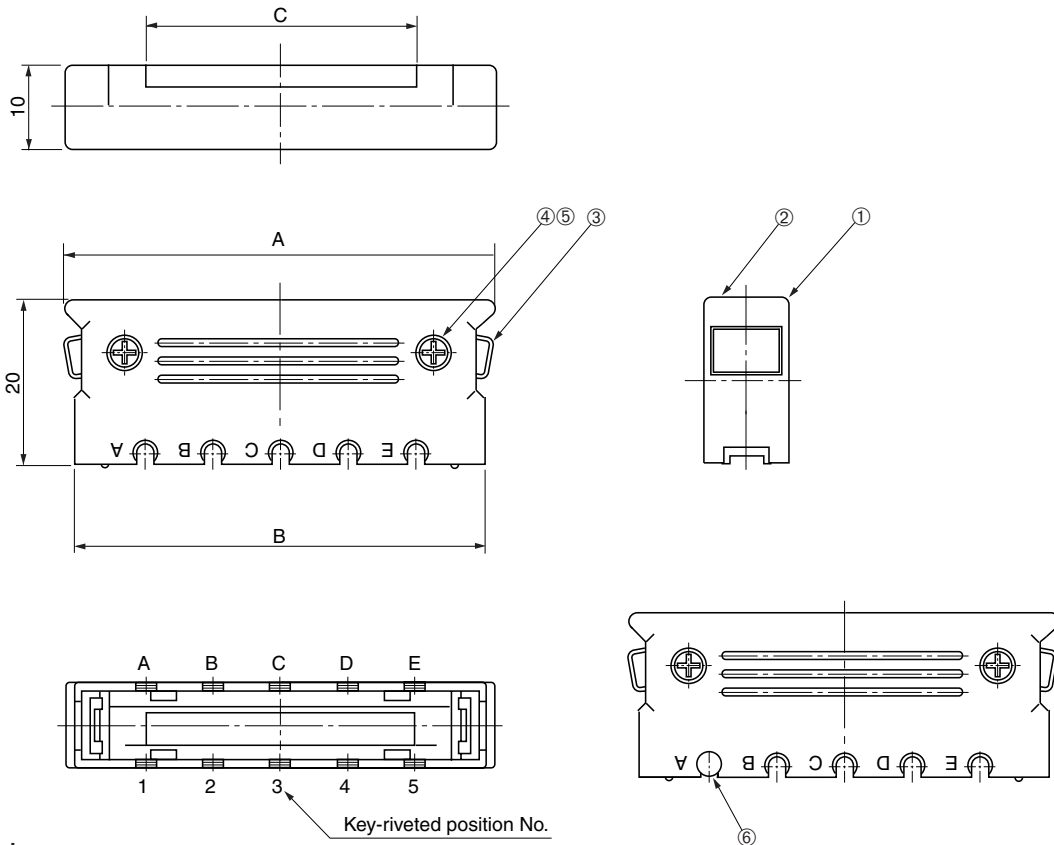


● Configuration of product Part No.

PCS-E () LTP- ()+R

① ② ③ ④

- ① Series name
- ② No. of contacts: 50 or 68
- ③ Type of backshell
LTP: Vertical type backshell for flat cables with mating guide for preventing misinsertion
- ④ Key-riveted position (Refer to the Dimension table as shown below) for preventing misinsertion.



● Components

①	Cover B
②	Cover A
③	Latch
④	Cable clamp
⑤	⊕Small-sized Phillips head screw
⑥	Hex nuts
⑦	Key rivet

● Dimensions

Part No.	A	B	C	Key-riveted position No.
PCS-E50LTP-()+R	50.9	48.9	32.2	1E, 2D, 4B, 5A
PCS-E68LTP-()+R	62.3	60.3	43.5	1E, 2D, 4B, 5A

For use with connector: PCS-E series IDC type female connector for cable

PCS-XE series IDC type male connector for cable

Accessories: Key-rivets for preventing misinsertion, PCS-E-PK+R

Vertical type die-cast material backshell for larger diameter cable
PCS-E68LKAU2N

Backshell

Vertical

SCSI-III

RoHS

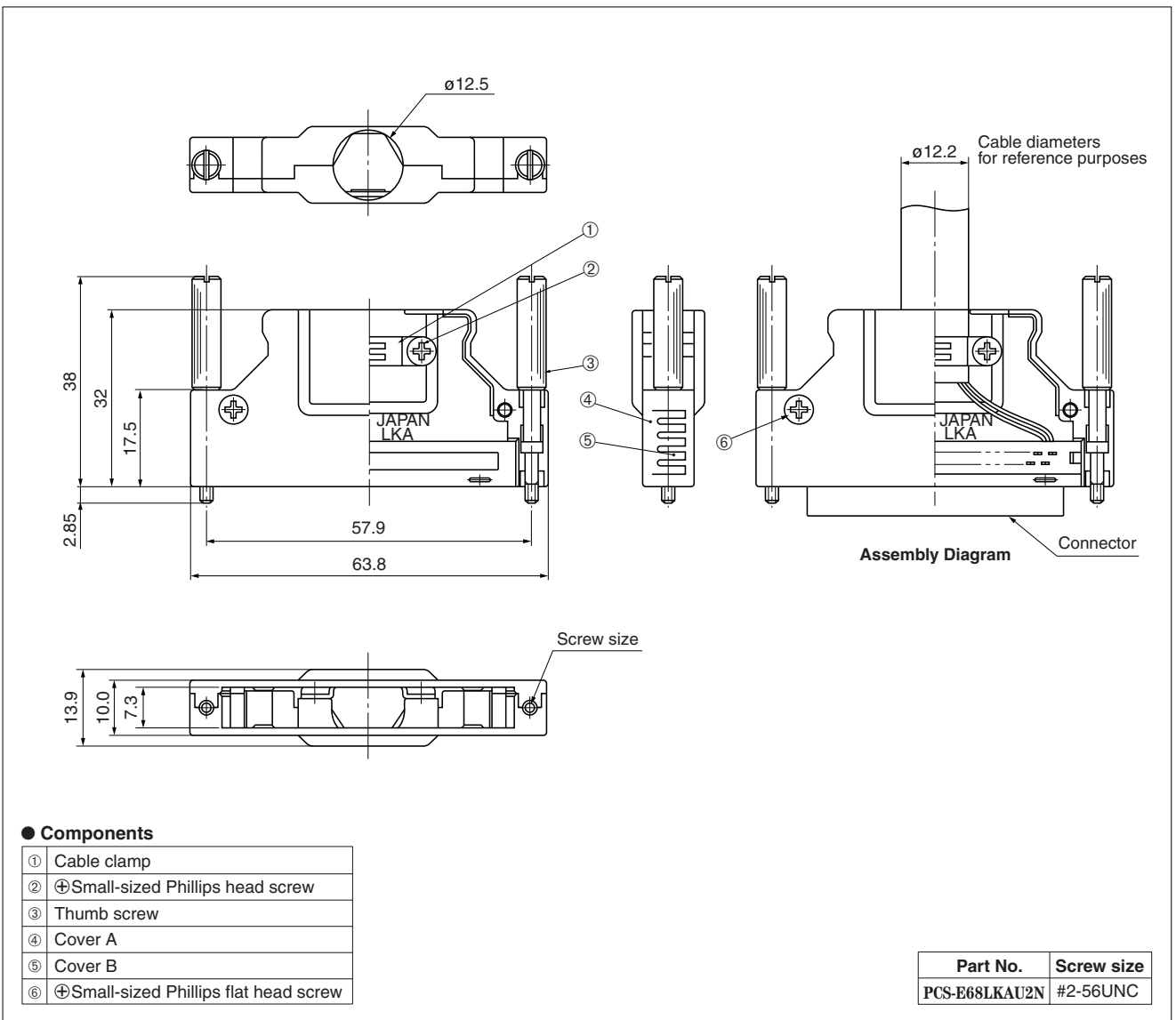


● Configuration of product Part No.

PCS-E 68 LK A U2 N

① ② ③ ④ ⑤ ⑥

- ① Series name
- ② No. of contacts: 68
- ③ Type of backshell: Vertical type backshell for larger diameter housing
- ④ Identification mark (A) of cable-end-outlet dimension. Cable diameters for reference purposes are shown below.
- ⑤ Screw size
U2: #2-56UNC
- ⑥ Lock type
N: Screw lock



For use with connector: PCS-E series IDC type female connector

PCS-XE series IDC type male connector for cable

Vertical type over-molded backshell
 PCS-XEM()DL()()N

Backshell

Vertical

SCSI-III

RoHS

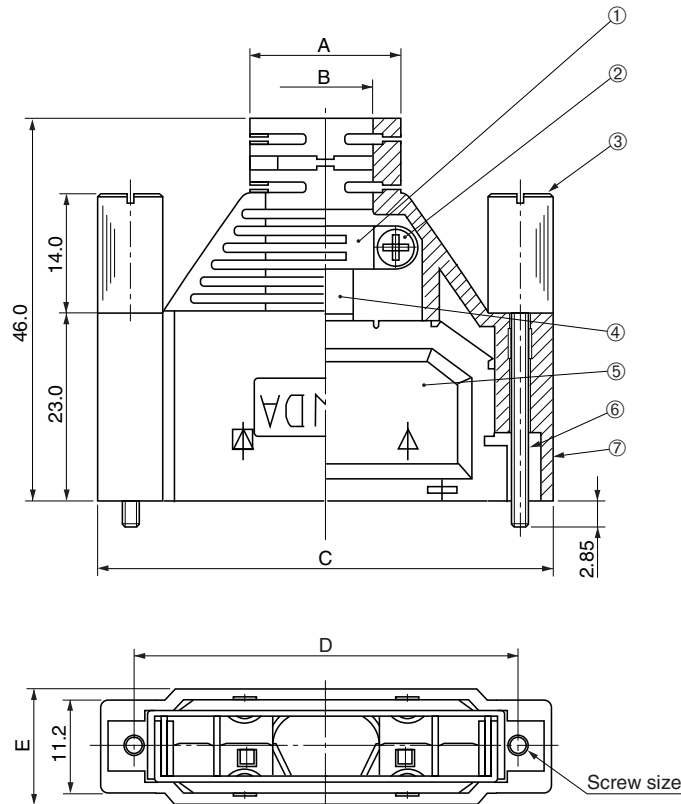


● Configuration of product Part No.

PCS-XEM () DL () () N

① ② ③ ④ ⑤ ⑥

- ① Series name
- ② No. of contacts: 50 or 68
- ③ Type of backshell
DL: Vertical type backshell
- ④ Color of hood
Blank: Black
1 : Beige
2 : Green
3 : Grey
- ⑤ Screw size
Blank: M2.5×0.45
U : #4-40UNC
U2 : #2-56UNC (standard)
- ⑥ Lock type
N: Screw lock



● Components

①	Cable clamp
②	⊕Small-sized Phillips head screw
③	Caps
④	Seal A
⑤	Seal B
⑥	Screw lock
⑦	Hood

● Dimensions

Part No.	A	B	C	D	E	Outside diameter of cable for reference purposes
PCS-XEM50DL()()N	17.6	ø11	54.0	46.5	14.0	ø10.5
PCS-XEM68DL()()N	19.3	ø12.7	65.43	57.9	15.7	ø12.2

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

Part No.	Screw size
PCS-XEM()DL()N	M2.5×0.45
PCS-XEM()DL()UN	#4-40UNC
PCS-XEM()DL()U2N	#2-56UNC

For use with connector: PCS-E series IDC type female connector

PCS-XE series IDC type male connector for cable

Vertical type over-molded backshell
PCS-XEM100L()()

Backshell

Vertical

Screw locks

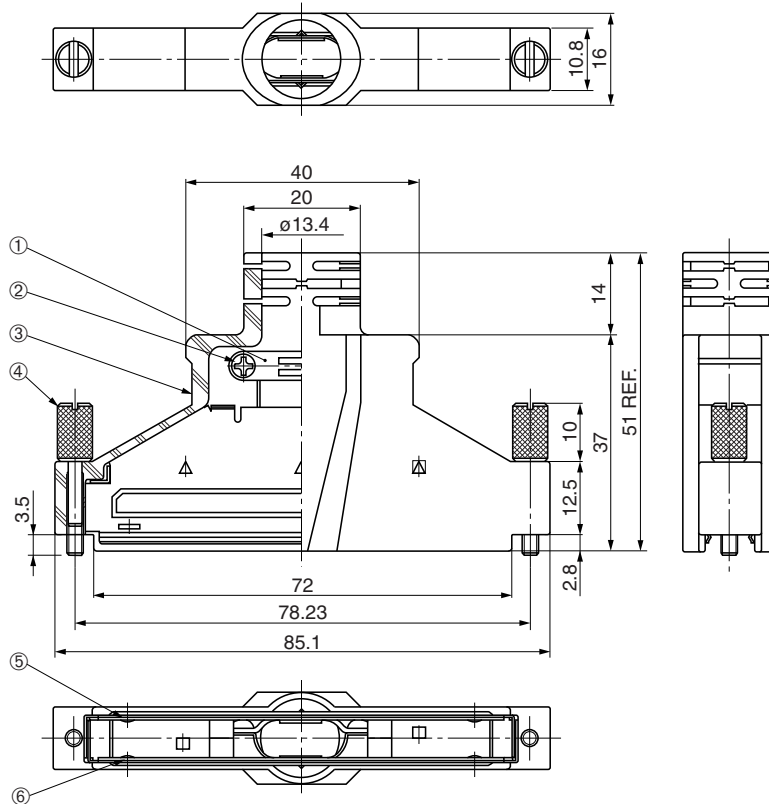
RoHS



● Configuration of product Part No.

PCS-XEM 100 L () ()

- ① Series name
- ② No. of contacts: 100
- ③ Type of backshell
L: Vertical type backshell
- ④ Color of hood
Blank: Black
1 : Beige
- ⑤ Screw size
Blank: #4-40UNC
U2 : #2-56UNC



● Components

①	Cable clamp
②	⊕ Small-sized Phillips head screw
③	Hood
④	Fastening screw
⑤	Shield B
⑥	Shield A

● Dimensions

Part No.	Color of housing	Screw size	Outside diameter of cable for reference purposes
PCS-XEM100L	Black	#4-40UNC	$\phi 13.2$
PCS-XEM100LU2		#2-56UNC	
PCS-XEM100L1	Beige	#4-40UNC	
PCS-XEM100L1U2		#2-56UNC	

For use with connector: PCS-XE series IDC type male connector for cable

**Vertical type die-cast material backshell
for daisy chain connection
PCS-SE68LDAU2N**

RoHS

Backshell

Vertical

SCSI-III

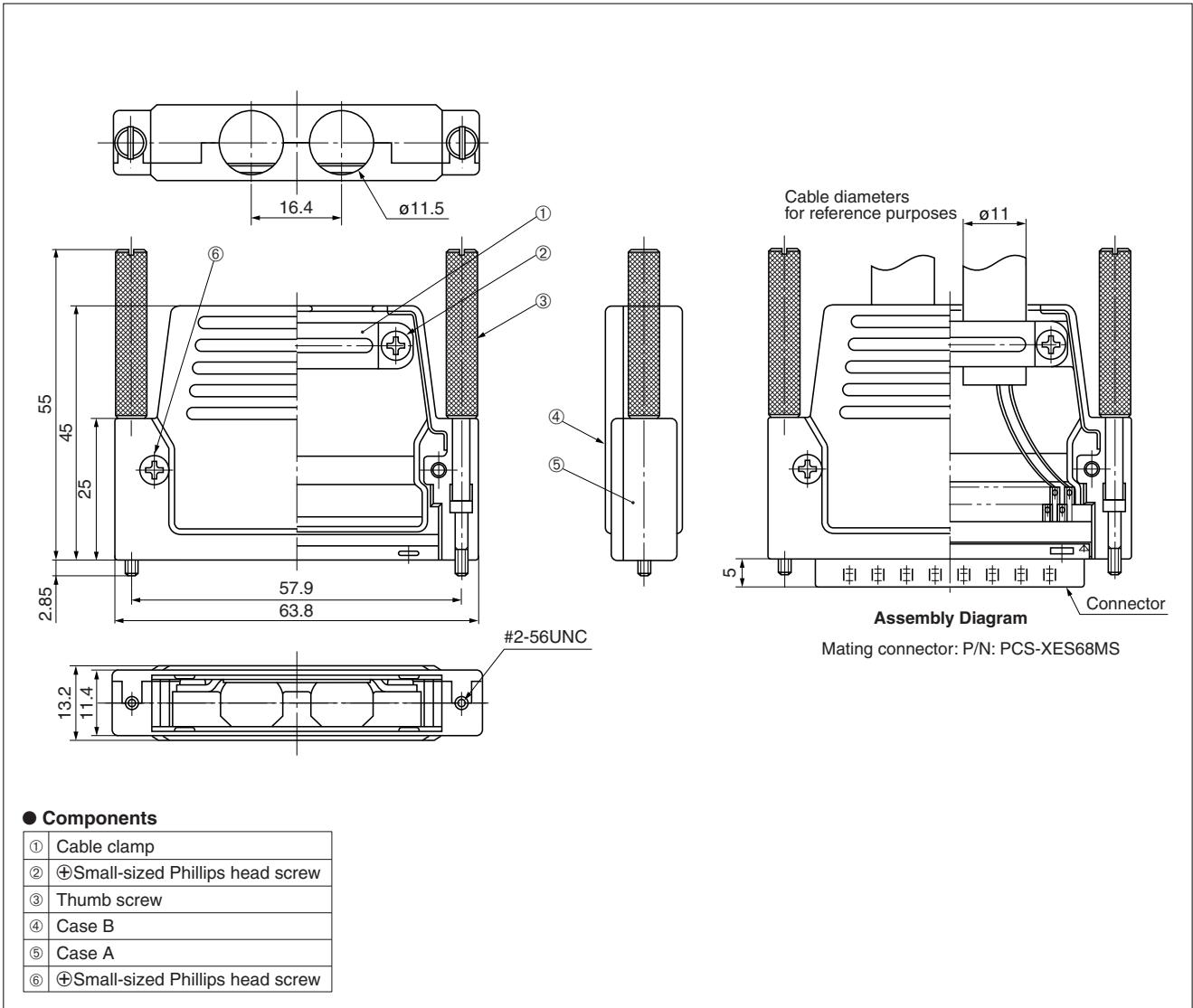


● Configuration of product Part No.

PCS-SE 68 LD A U2 N

① ② ③ ④ ⑤ ⑥

- ① Series name
- ② No. of contacts: 68
- ③ Type of backshell
LD: Vertical type backshell
- ④ Identification mark (A) of cable-end-outlet dimension.
- ⑤ Screw size
U2: #2-56UNC
- ⑥ Lock type
N: Screw lock



For use with connector: PCS-XES series soldering type male connector for cable

1.6 mm panel-thickness mating guide
PCS-E()G

Accessories

Mating guide

RoHS

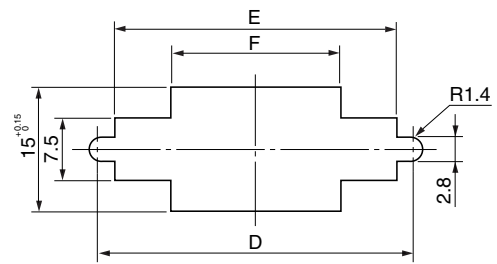
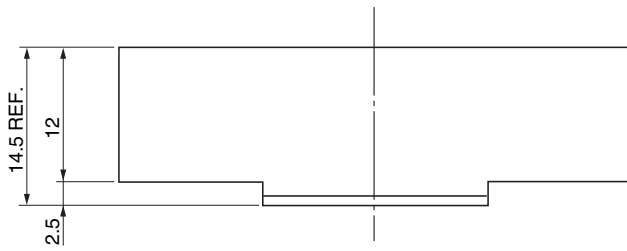
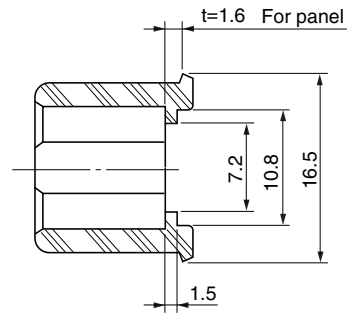
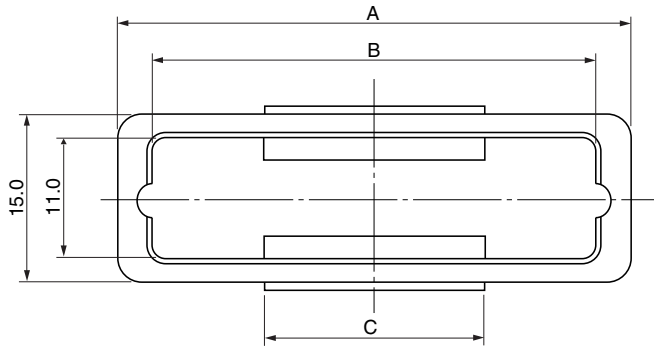


● Configuration of product Part No.

PCS-E () G

① ② ③

- ① Series name
- ② No. of contacts: 20, 28, 36 or 50
- ③ 1.6 mm panel-thickness mating guide
(Color: Silver metallic)



Recommended panel cut-out dimensions

● Dimensions

Part No.	A	B	C	D	E	F
PCS-E20G	37.3	30.7	11	27.4	23.7	11.3
PCS-E28G	42.3	35.7	16	32.5	28.8	16.3
PCS-E36G	47.6	40.9	20	37.6	33.9	20.3
PCS-E50G	56.3	49.6	30	46.5	42.8	30.3

Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.

For use with connector: PCS-E series vertical type or horizontal type housing

1.0 mm panel-thickness mating guide
PCS-E()G1

Accessories

Mating guide

RoHS

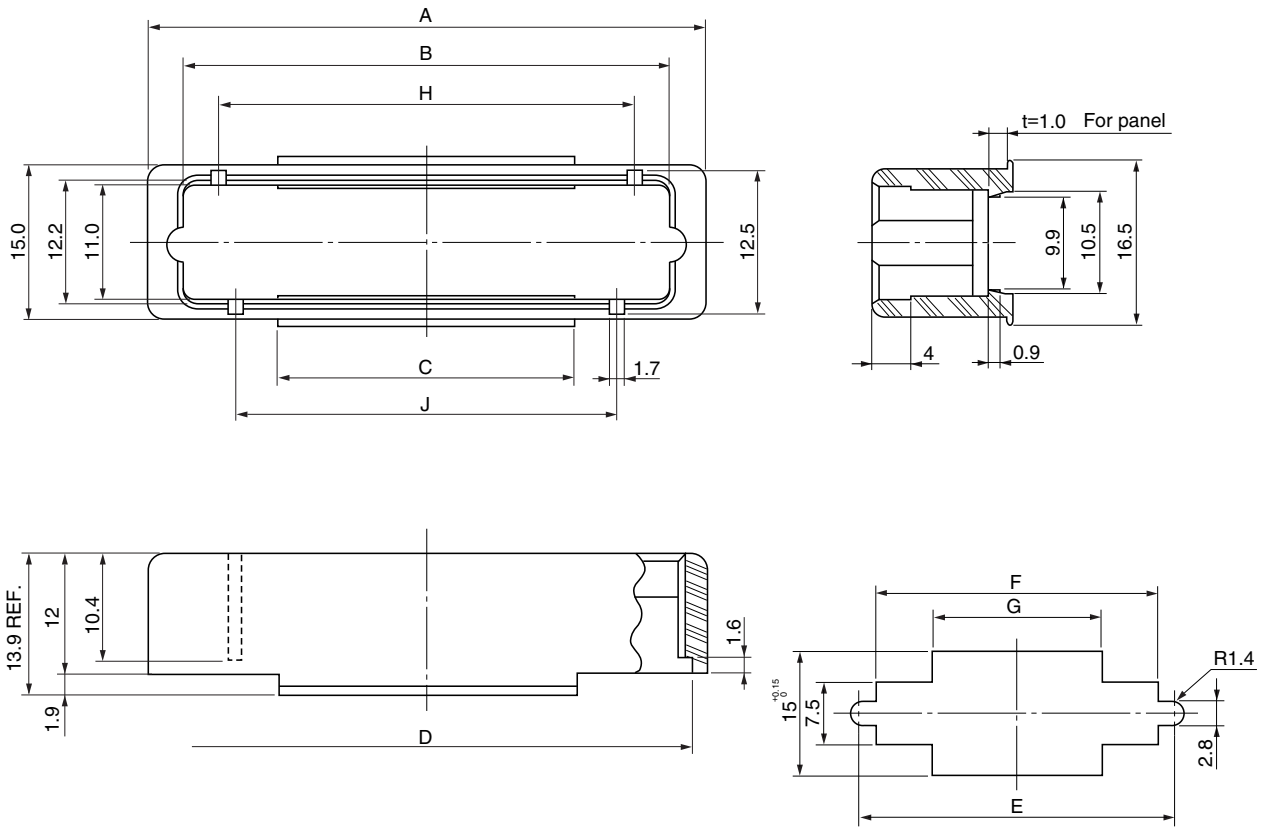


● Configuration of product Part No.

PCS-E () G1

① ② ③

- ① Series name
- ② No. of contacts: 20, 28, 36, 50 or 68
- ③ 1.0 mm panel-thickness mating guide



Recommended panel cut-out dimensions

● Dimensions

Part No.	A	B	C	D	E	F	G	H	J
PCS-E20G1	37.3	30.7	11	33.0	27.4	23.7	11.3	25	8
PCS-E28G1	42.3	35.7	16	38.1	32.5	28.8	16.3	30	16
PCS-E36G1	47.6	40.9	20	43.2	37.6	33.9	20.3	34	31
PCS-E50G1	56.3	49.6	30	52.1	46.5	42.8	30.3	42	39
PCS-E68G1	67.7	61.0	40	63.5	57.9	54.1	40.3	52	49

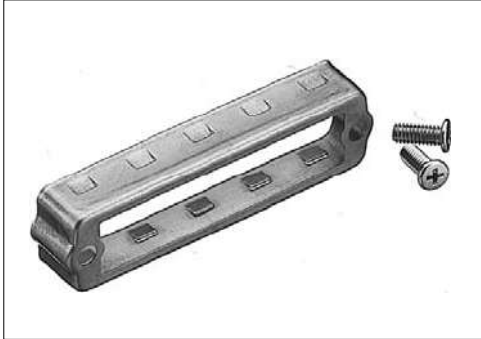
For use with connector: PCS-E series vertical type housing for standard cable or heavy wire cable with mating guide

Metallic mating guide
PCS-E()G3()

Accessories

Mating guide

RoHS

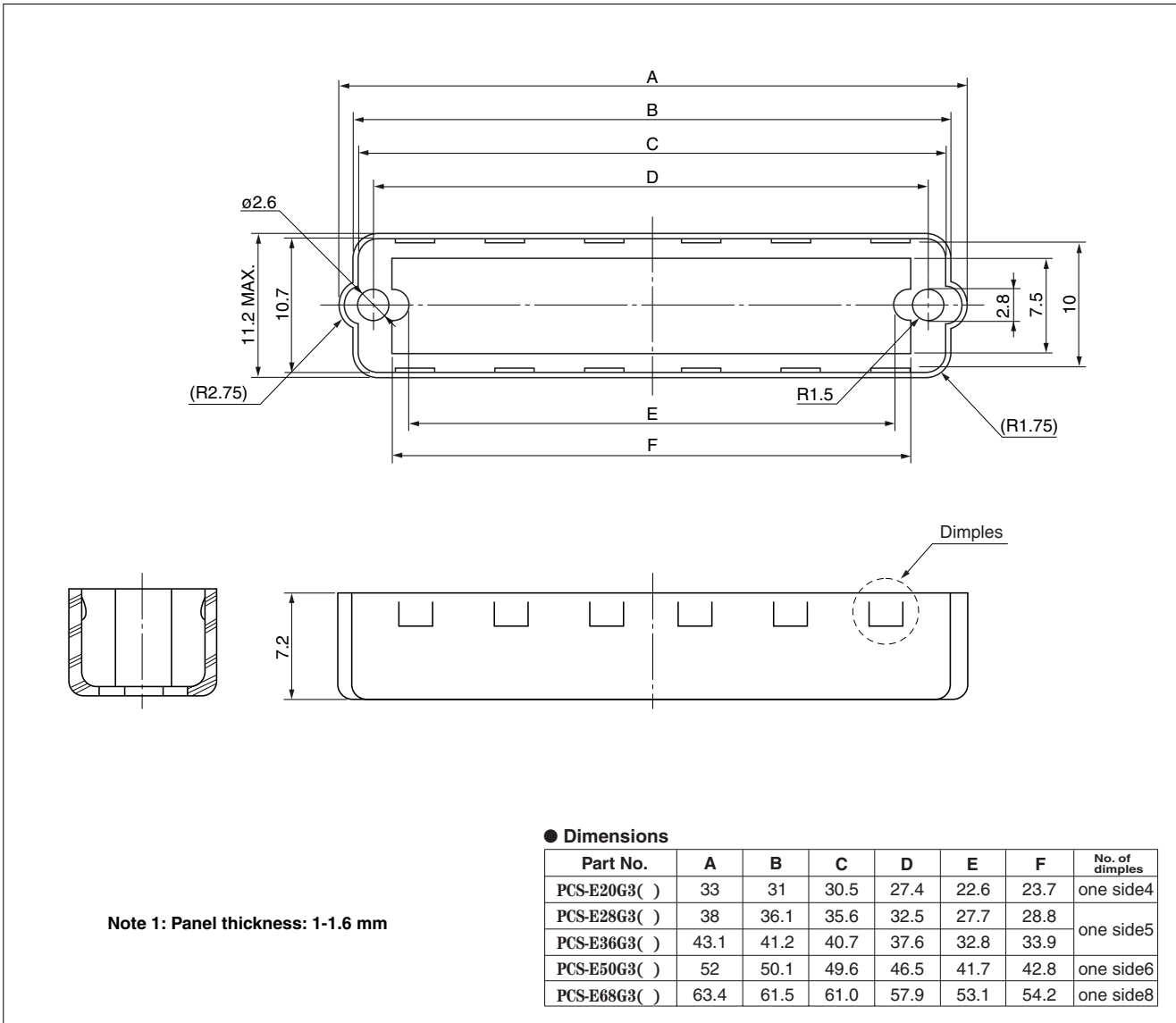


● Configuration of product Part No.

PCS-E () G3 ()

① ② ③ ④

- ① Series name
- ② No. of contacts: 20, 28, 36, 50 or 68
- ③ Metallic mating guide
- ④ Guide plating
 Blank: No plating
 N : Nickel plating



For use with connector: PCS-E series vertical type housing for standard cable or heavy wire cable

PCS-E series of horizontal type housing for standard cable or heavy wire cable

Key rivet for preventing misinsertion
PCS-E-PK+R

Accessories

Key rivet

RoHS

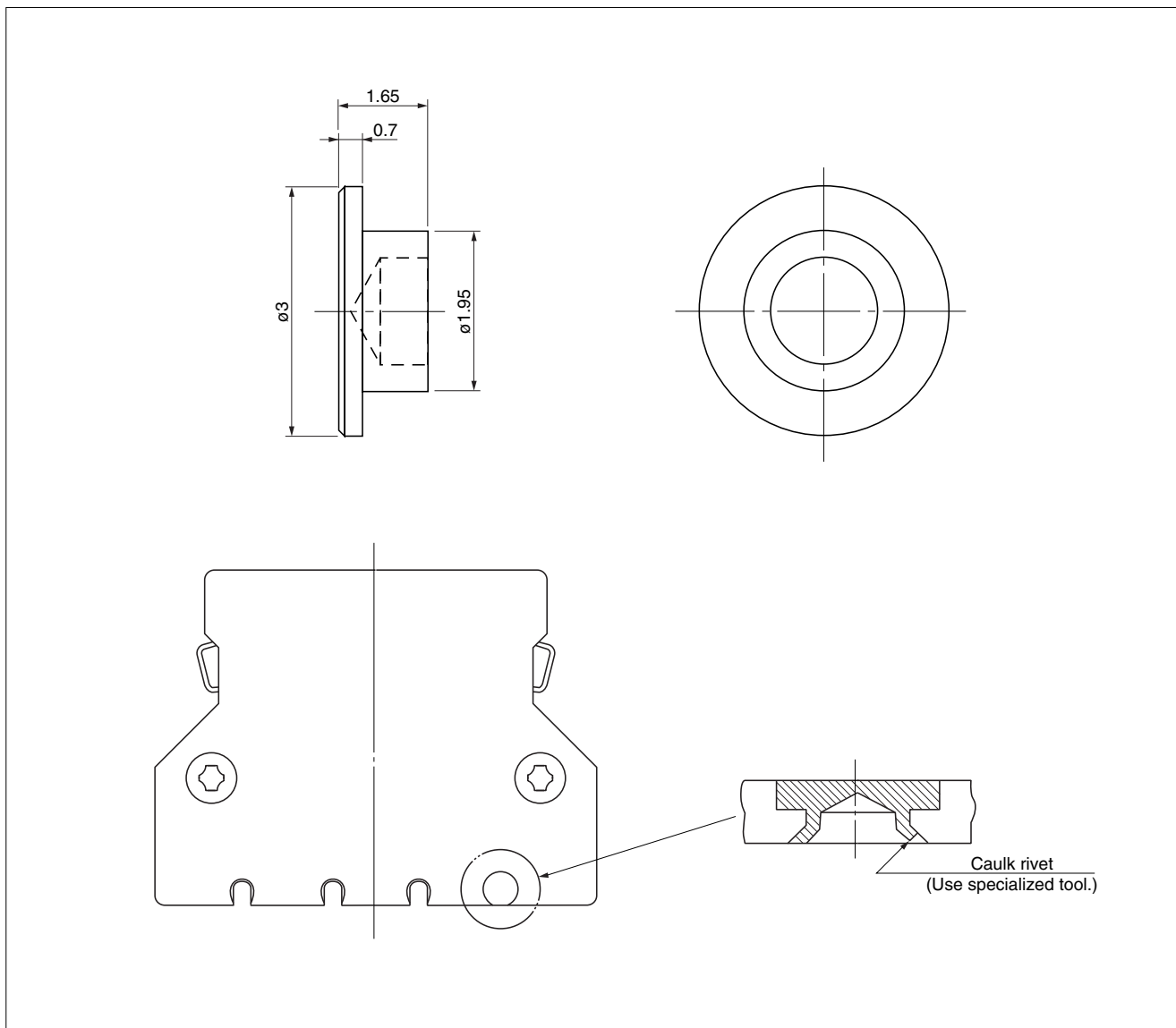


● Configuration of product Part No.

PCS-E- PK+R

① ②

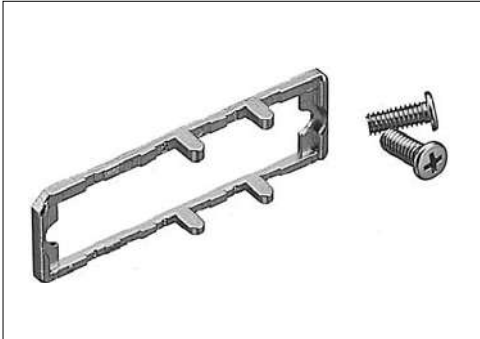
- ① Series name
- ② Key rivet for preventing misinsertion



For use with backshell: PCS-E series vertical type backshell or horizontal type backshell with provision for preventing misinsertion

Misinsertion prevention guide
PCS-E()PG-()

RoHS

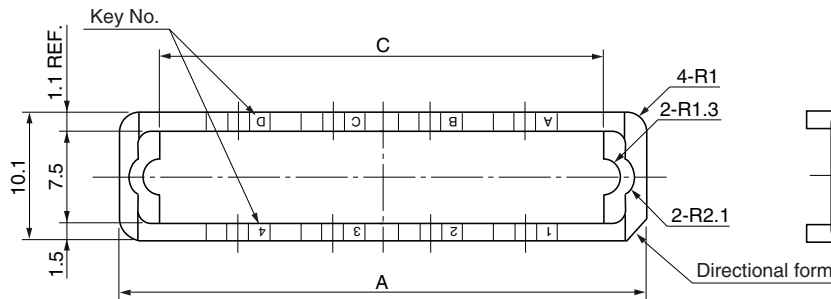


● Configuration of product Part No.

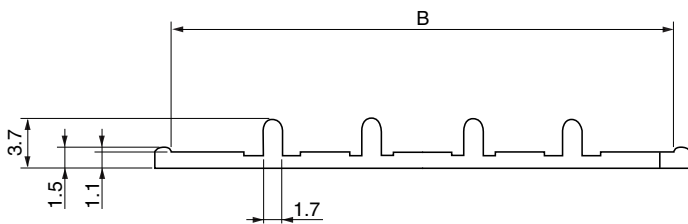
PCS-E () PG- ()

① ② ③ ④

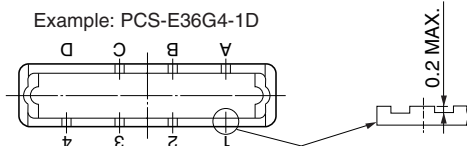
- ① Series name
- ② No. of contacts: 20, 28, 36, 50, 68 or 80
- ③ Misinsertion prevention guide
- ④ Locations being cut off the key forms for preventing misinsertion



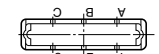
Note 1: When a panel is not used, use the spacer hardware, PCS-E()M-SP.



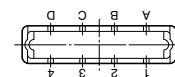
Note 2: Designate the location No. in parentheses (④) for "Configuration of product part numbers." (Standard locations being cut off the key forms for preventing misinsertion are shown in the Dimension table.)



Because some combinations of "Configurations of Product Part No.", are under consideration for development, please contact us for availability details.



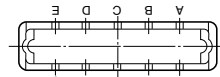
For 20-contacts



For 28-contacts



For 36-contacts



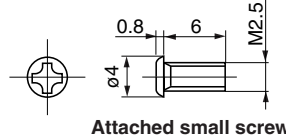
For 50-contacts



For 68-contacts



For 80-contacts



Attached small screw

● Dimensions

Part No.	A	B	C	Standard locations being cut off the key forms for preventing misinsertion
PCS-E20PG-()	32.6	30.3	27.4	1B, 1C, 2A, 3A
PCS-E28PG-()	37.7	35.3	32.5	1D, 2C, 3B, 4A
PCS-E36PG-()	42.8	40.5	37.6	1E, 2D, 4B, 5A
PCS-E50PG-()	51.7	49.2	46.5	
PCS-E68PG-()	63.1	60.6	57.9	
PCS-E80PG-()	70.7	68.2	65.5	

For use with connector: PCS-E series right-angle through hole type male connector for PCB

PCR-E series right-angle through hole type male connector for PCB

Mating backshell: PCS-E series of backshell with provision for preventing misinsertion

Misinsertion prevention guide
PCS-E96PG-()

Accessories

Misinsertion prevention guide

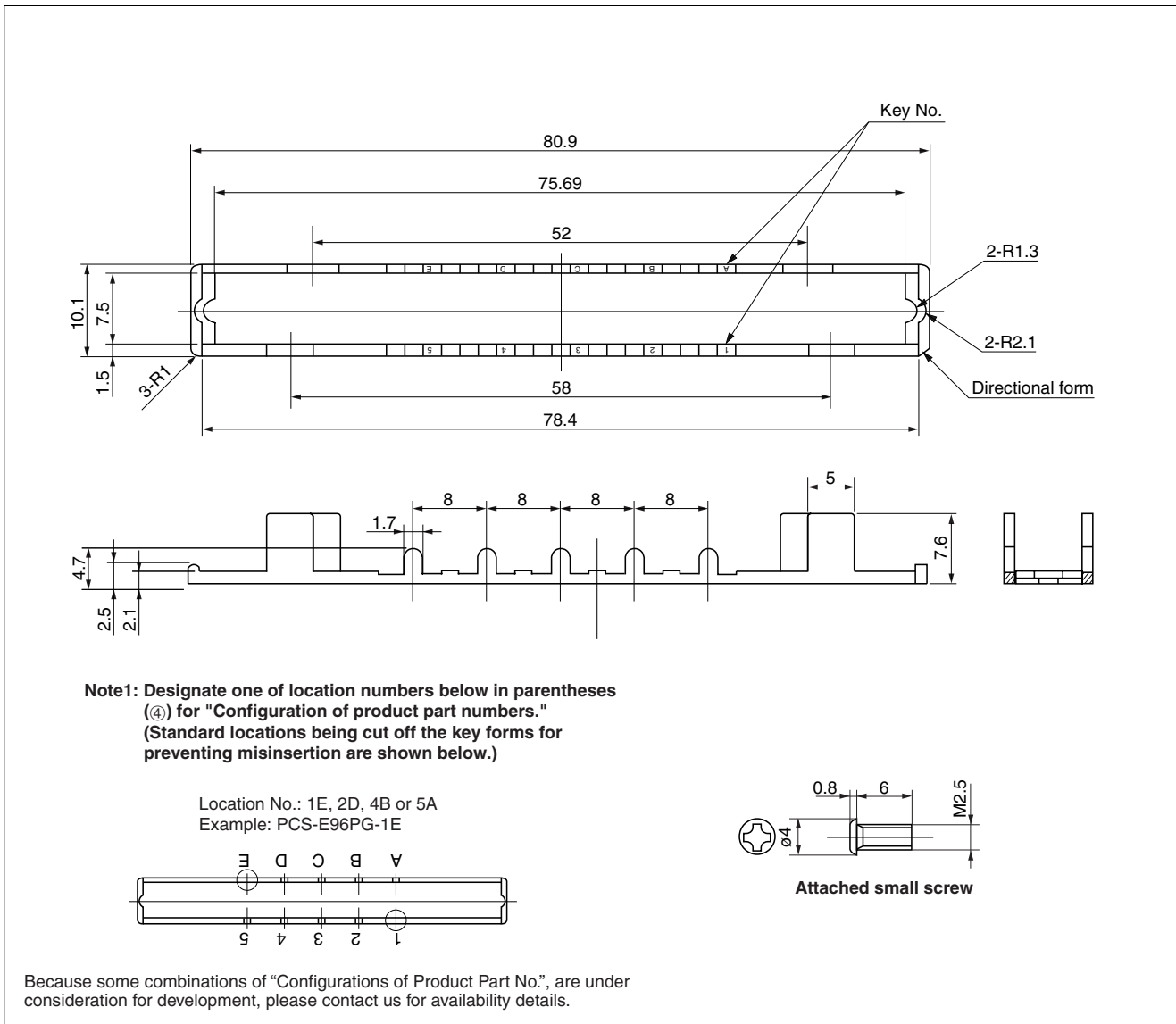


● Configuration of product Part No.

PCS-E 96 PG- ()

① ② ③ ④

- ① Series name
- ② No. of contacts: 96
- ③ Misinsertion prevention guide
- ④ Locations being cut off the key forms for preventing misinsertion



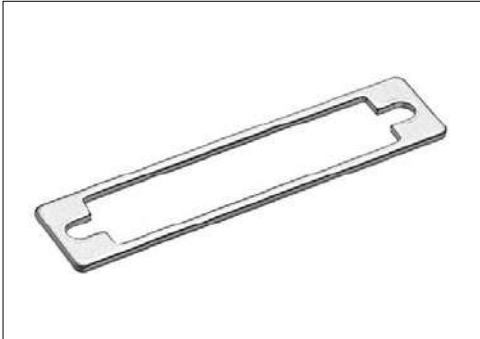
For use with backshell: PCS-E series backshell with provision for preventing misinsertion. PCS-E96LKP(-)(-)

Spacer hardware for male connector
PCS-E()M-SP

Accessories

Spacer hardware

RoHS



● Configuration of product Part No.

PCS-E () M-SP

① ② ③

- ① Series name
- ② No. of contacts: 20, 28, 36, 50, 68 or 96
- ③ Spacer hardware for male connectors

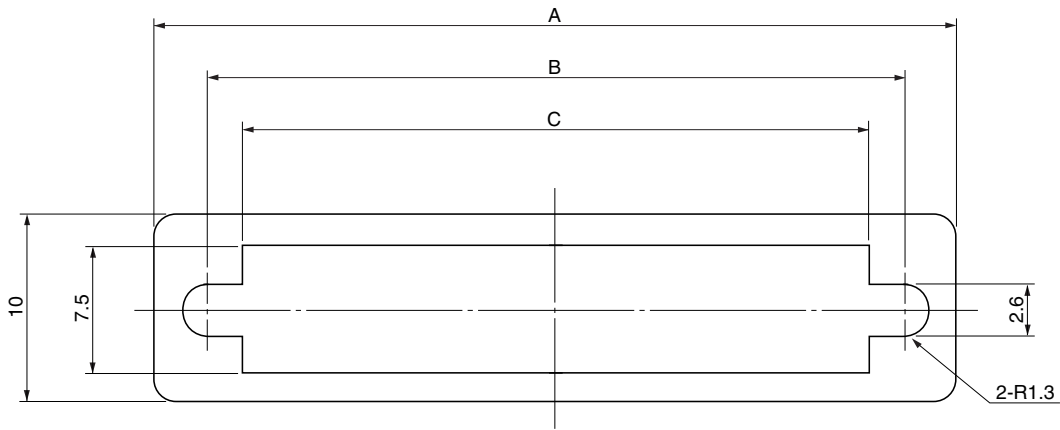


Plate thickness: 1.0 mm.

Use this spacer hardware for male connectors, when a panel is not used.

● Dimensions

Part No.	A	B	C
PCS-E20M-SP	32.8	27.4	22.8
PCS-E28M-SP	37.9	32.5	27.9
PCS-E36M-SP	43.0	37.6	33.0
PCS-E50M-SP	51.9	46.5	41.9
PCS-E68M-SP	63.3	57.9	53.3
PCS-E96M-SP	81.1	75.69	71.1

For use with connector: PCS-E series right-angle through hole type male connector for PCB

PCR-E series right-angle through hole type male connector for PCB

Screw lock
PCS-XE50SJ()U2

Accessories

Screw locks

SCSI-III

RoHS

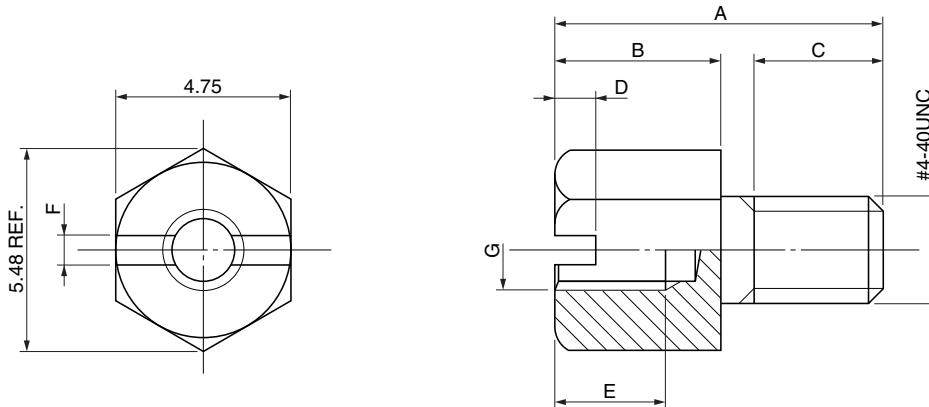


● Configuration of product Part No.

PCS-XE 50 SJ() U2

① ② ③

- ① Series name
- ② Kinds of screw locks
 SJ1: The type not mounted on panel (Male screw size, #4-40UNC)
 SJ5: The type mounted on 1.6 mm panel (Male screw size, #4-40UNC)
 SJ6: The type mounted on 1.0 mm panel (Male screw size, #4-40UNC)
- ③ Female screw size
 U2: #2-56UNC



Note 1: SJ1 and SJ5 types are not slotted.

● Dimensions

Part No.	A	B	C	D	E	F	G
PCS-XE50SJ1U2	8.9	5.5	2.7	-	3	-	#2-56UNC
PCS-XE50SJ5U2		3.9	4.1		2.9		
PCS-XE50SJ6U2		4.5	3.5	1.1	3		

For use with backshell: PCS-E series Backshells with provision for preventing misinsertion