FUJITSU THE POSSIBILITIES ARE INFINITE

FOR BOARD-TO-CABLE CONNECTION

230R SERIES (CONFORMS TO SCSI)

■ FEATURES

- 1.27 mm × 2.54 mm (0.050 in. × 0.100 in.) pitch contact arrangement enables high-density mounting.
- Cables and connectors are assembled by means of discrete wire IDC.
- Terminals are spaced in a four-row staggered arrangement (2.54 mm × 1.905 mm) (0.100 in. × 0.075 in.).
- Knife-fork two-point contacts are highly reliable.
- One-touch lock types and screw lock types are available for fixing the board-side connector and the cable-side connector.
- The following connectors conform to the SCSI standards recommended by ANSI:
(1) Single-operation lock types
- 50-contact type: Conforms to the A-cable connectors prescribed in SCSI-II and SCSI-III
- 68-contact type: Conforms to the B-cable connectors prescribed in SCSI-II
(2) Screw lock types
- 68-contact type: Conforms to the P/Q-cable connectors prescribed in SCSI-III
  * SCSI: Small Computer System Interface

■ SPECIFICATIONS

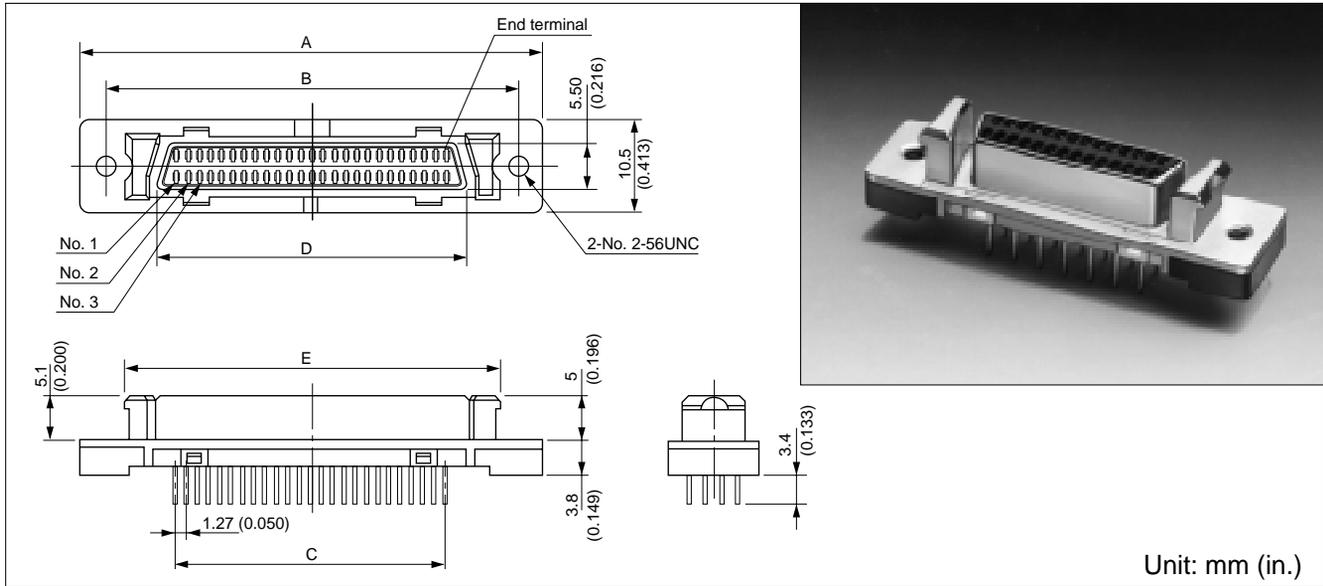| Item	Specifications
Operating temperature range	−55°C to +105°C
Current rating	DC 1 A
Voltage rating	AC 240 V
Contact resistance	30 mΩ max. (DC 6 V, 0.1A)
Insulation resistance	1000 MΩ min. (DC 500 V)
Dielectric withstand voltage	AC 750 V for 1 minute
Applicable wire (standard)	AWG #28 and #30 twisted-pair cables with φ 0.5 to 0.88 mm (0.020 to 0.035 in.) sheath diameter. (The applicable wires depend on the number of contacts. See the descriptions of IDC plugs and metal covers.)

■ MATERIALS

Item	Materials	
Insulator	Polyester (UL94V-0)	
Conductor	Copper alloy	
Plating	Contact	Gold plating
	Terminal	Palladium plating

STRAIGHT SOCKET (SINGLE-OPERATION LOCK TYPE)
■ DIMENSIONS

Unit: mm (in.)

■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)

26 and 50 contacts

20, 28 and 68 contacts

Unit: mm (in.)

■ PATTERN INHIBITED AREAS

Unit: mm (in.)

■ RECOMMENDED PANEL DIMENSIONS

Thickness of recommended panel: t = 1 (0.04)

Unit: mm (in.)
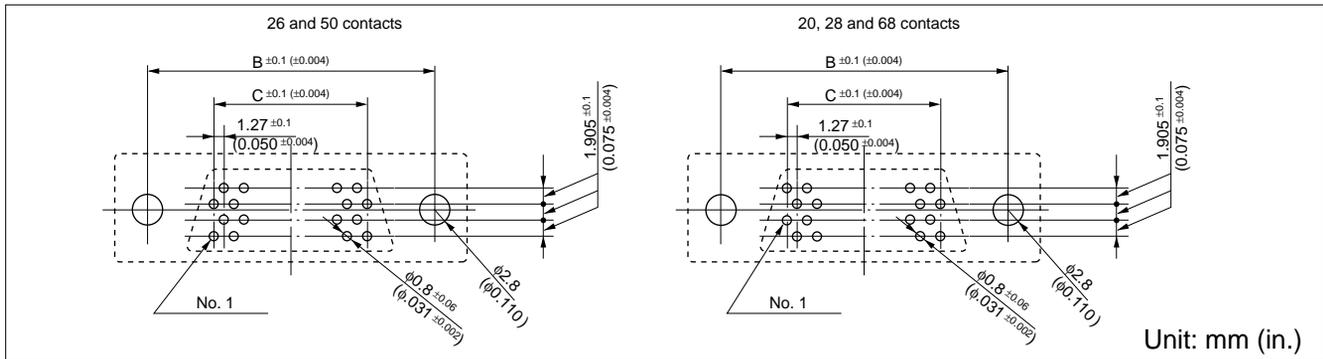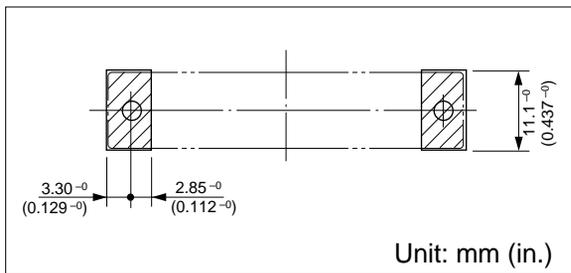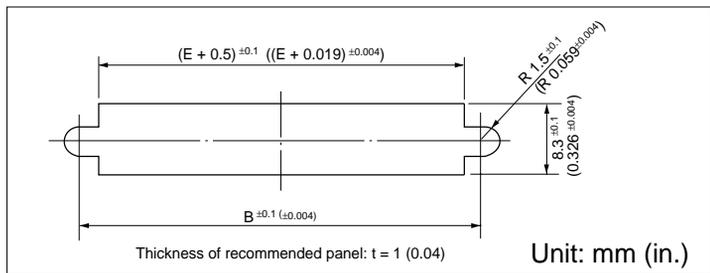
■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)				
		A	B	C	D	E
20	FCN-234D020-G/E	33.40 (1.314)	27.43 (1.079)	11.46 (0.451)	15.60 (0.614)	23.24 (0.914)
26	FCN-234D026-G/E	37.21 (1.464)	32.24 (1.269)	15.24 (0.600)	19.41 (0.764)	27.05 (1.064)
28	FCN-234D028-G/E	38.48 (1.514)	32.51 (1.279)	16.51 (0.650)	20.68 (0.814)	28.32 (1.114)
40	FCN-234D040-G/E	46.10 (1.841)	40.13 (1.479)	24.13 (0.950)	28.30 (1.114)	35.94 (1.414)
50	FCN-234D050-G/E	52.45 (2.064)	46.48 (1.829)	30.48 (1.200)	34.65 (1.364)	42.29 (1.664)
68	FCN-234D068-G/E	63.88 (2.514)	57.91 (2.279)	41.91 (1.650)	46.08 (1.814)	53.72 (2.114)

This series includes connectors with M 2.5 threaded inserts for mounting on PC boards and panels. Specify a part number by replacing -G/E at the end with -G/C.
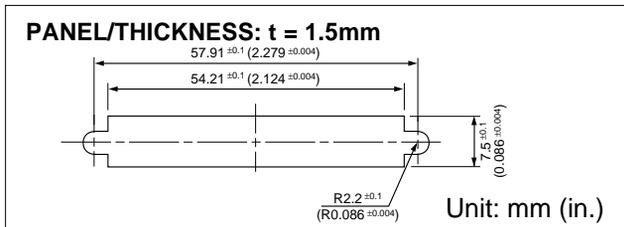Example: FCN-234D050-G/C

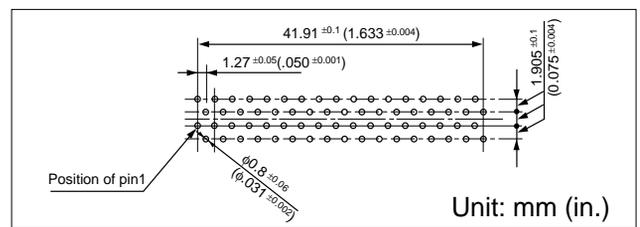# FCN-234D068-G/P*** 68 CONTACT STRAIGHT TYPE, BOARD-SOCKET, SCREW TYPE LOCK
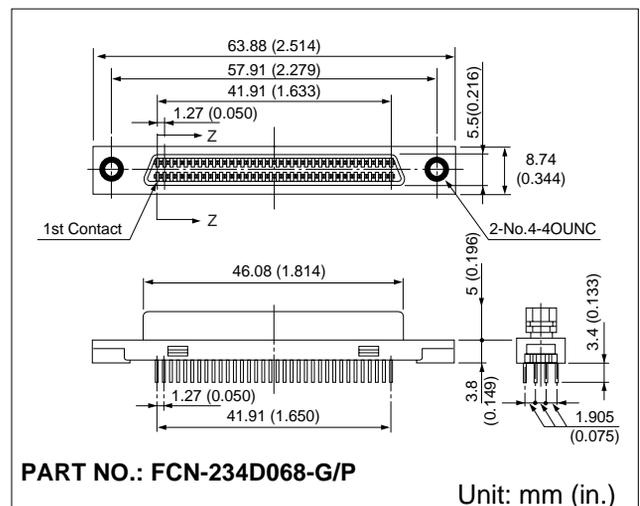
■ DIMENSIONS

63.88 (2.514)
57.91 (2.279)
41.91 (1.633)
1.27 (0.050)
5.5 (0.216)
8.74 (0.344)

1st Contact
2-No.2-56UNC

46.08 (1.814)
5 (0.196)
5.51 (0.216)
3.4 (0.133)
1.27 (0.050)
3.8 (0.149)
41.91 (1.650)
1.905 (0.075)

PART NO.: FCN-234D068-G/P#DO

1.45 (0.057)
1.905 ±0.3 (0.075 ±0.011)
SECTION Z-Z (5/1)

4.75 (0.187)
No. 2-56UNC
2.4 (0.094)
3.99 (0.157)
5.5 (0.216)
6.0 (0.236)
1.47 (0.057)
φ 4 (φ 0.157)
No. 4-40UNC
Jack Socket FCN-230A24

Unit: mm (in.)

■ PANEL LAYOUT

PANEL/THICKNESS: t = 1.5mm

57.91 ±0.1 (2.279 ±0.004)
54.21 ±0.1 (2.124 ±0.004)
7.5 ±0.1 (0.086 ±0.004)
R2.2 ±0.1 (R0.086 ±0.004)

Unit: mm (in.)

■ MOUNTING HOLE LAYOUT

41.91 ±0.1 (1.633 ±0.004)
1.27 ±0.05 (.050 ±0.001)
1.905 ±0.1 (0.075 ±0.004)

Position of pin1
φ0.8 ±0.06 (φ 0.031 ±0.002)

Unit: mm (in.)

■ DIMENSIONS

63.88 (2.514)
57.91 (2.279)
41.91 (1.633)
1.27 (0.050)
5.5 (0.216)
8.74 (0.344)

1st Contact
2-No.2-56UNC

46.08 (1.814)
5 (0.196)
5.51 (0.216)
3.4 (0.133)
1.27 (0.050)
3.8 (0.149)
41.91 (1.650)
1.905 (0.075)

PART NO.: FCN-234D068-G/P#DO

Unit: mm (in.)

63.88 (2.514)
57.91 (2.279)
41.91 (1.633)
1.27 (0.050)
5.5 (0.216)
8.74 (0.344)

1st Contact
2-No.4-4OUNC

46.08 (1.814)
5 (0.196)
3.4 (0.133)
1.27 (0.050)
3.8 (0.149)
41.91 (1.650)
1.905 (0.075)

PART NO.: FCN-234D068-G/P

Unit: mm (in.)

■ PANEL LAYOUT

PANEL/THICKNESS: t = 1.5mm

57.91 ±0.1 (2.279 ±0.004)
54.21 ±0.1 (2.134 ±0.004)
7.5 ±0.1 (0.295 ±0.004)
R2.2 ±0.1 (R0.086 ±0.004)

PANEL/THICKNESS: t = 1.5mm

57.91 ±0.1 (2.279 ±0.004)
54.21 ±0.1 (2.134 ±0.004)
7.5 ±0.1 (0.295 ±0.004)
R2.2 ±0.1 (R0.086 ±0.004)

Unit: mm (in.)

RIGHT ANGLE SOCKET (SINGLE-OPERATION LOCK TYPE)
■ DIMENSIONS
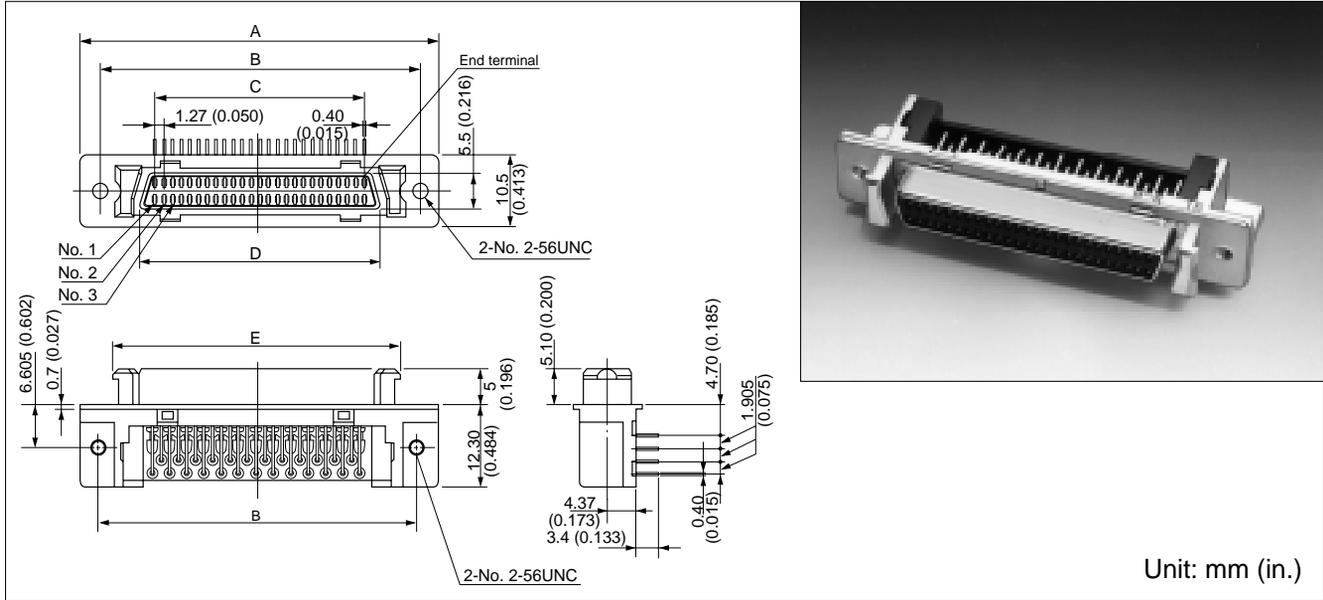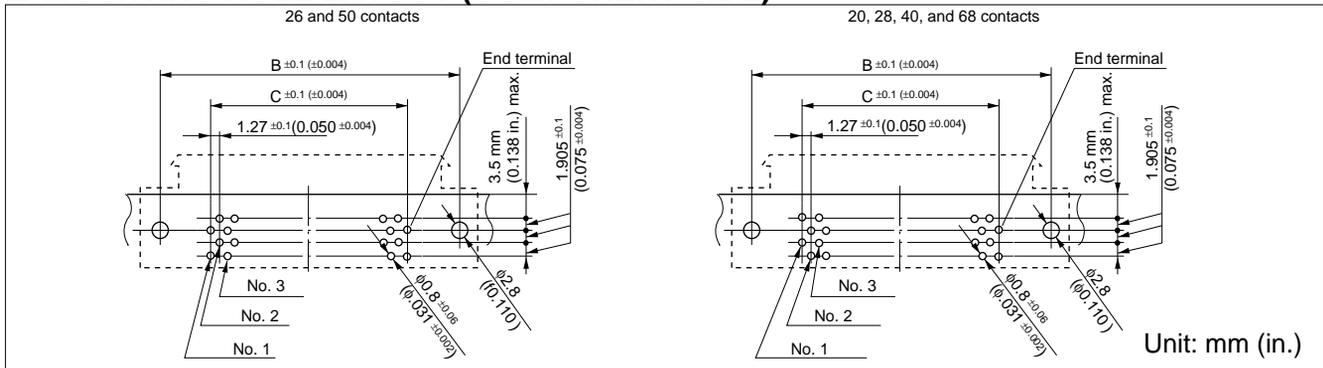
Unit: mm (in.)

■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)

26 and 50 contacts

20, 28, 40, and 68 contacts

Unit: mm (in.)

■ PATTERN INHIBITED AREAS

Unit: mm (in.)

■ RECOMMENDED PANEL DIMENSIONS

Thickness of recommended panel: t = 1 mm (0.039 in.)

Unit: mm (in.)
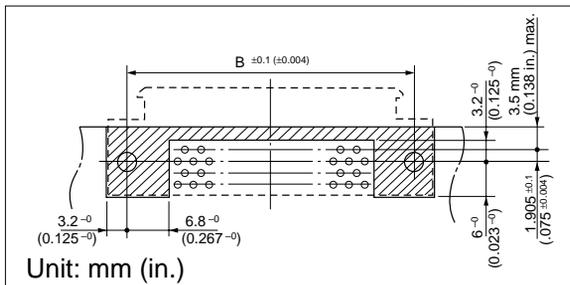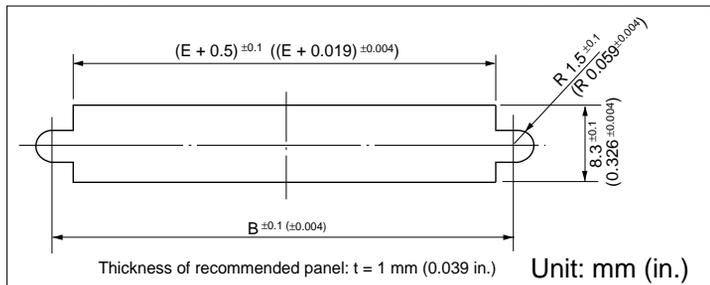
■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)				
		A	B	C	D	E
20	FCN-235D020-G/E	33.40 (1.314)	27.43 (1.079)	11.46 (0.451)	15.60 (0.614)	23.24 (0.914)
26	FCN-235D026-G/E	37.21 (1.464)	32.24 (1.269)	15.24 (0.600)	19.41 (0.764)	27.05 (1.064)
28	FCN-235D028-G/E	38.48 (1.514)	32.51 (1.279)	16.51 (0.650)	20.68 (0.814)	28.32 (1.114)
40	FCN-235D040-G/E	46.10 (1.841)	40.13 (1.479)	24.13 (0.950)	28.30 (1.114)	35.94 (1.414)
50	FCN-235D050-G/E	52.45 (2.064)	46.48 (1.829)	30.48 (1.200)	34.65 (1.364)	42.29 (1.664)
68	FCN-235D068-G/E	63.88 (2.514)	57.91 (2.279)	41.91 (1.650)	46.08 (1.814)	53.72 (2.114)

This series includes connectors with M 2.5 threaded inserts for mounting on PC boards and panels. Specify a part number by replacing -G/E at the end with -G/C.
Example: FCN-235D050-G/C

230R Series (Conforms to SCSI)

RIGHT-ANGLE SOCKET WITH BOARD LOCK BRACKET (SINGLE-OPERATION LOCK TYPE)
■ DIMENSIONS

Unit: mm (in.)
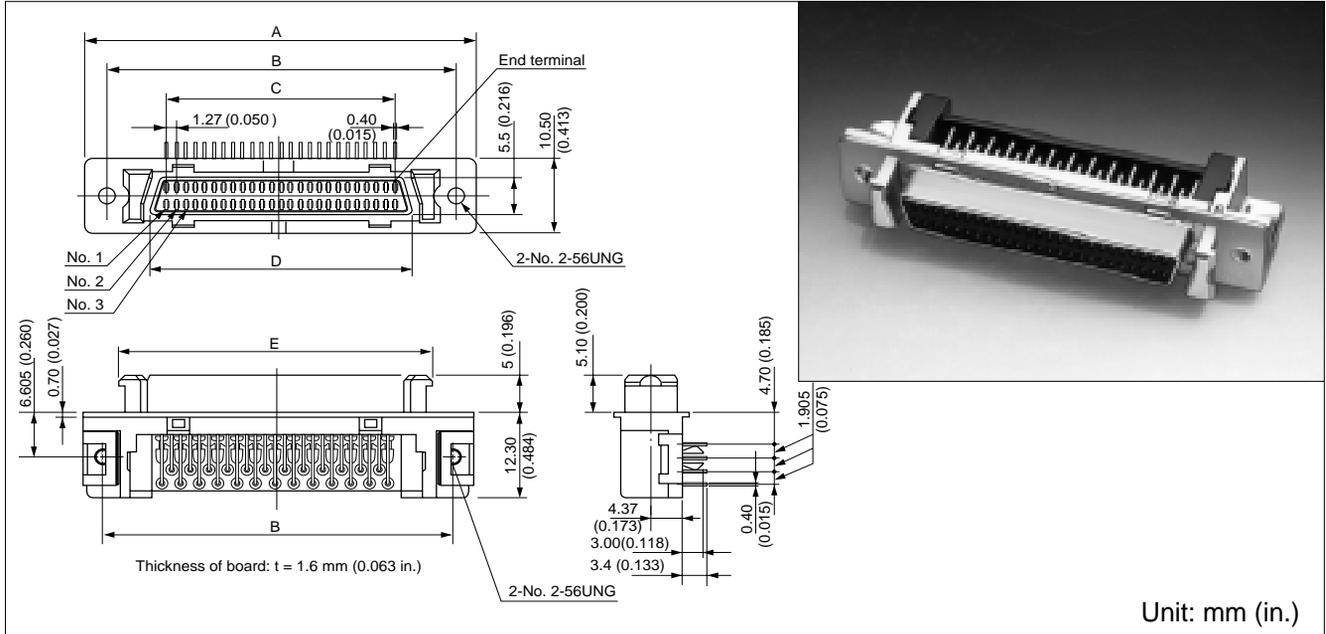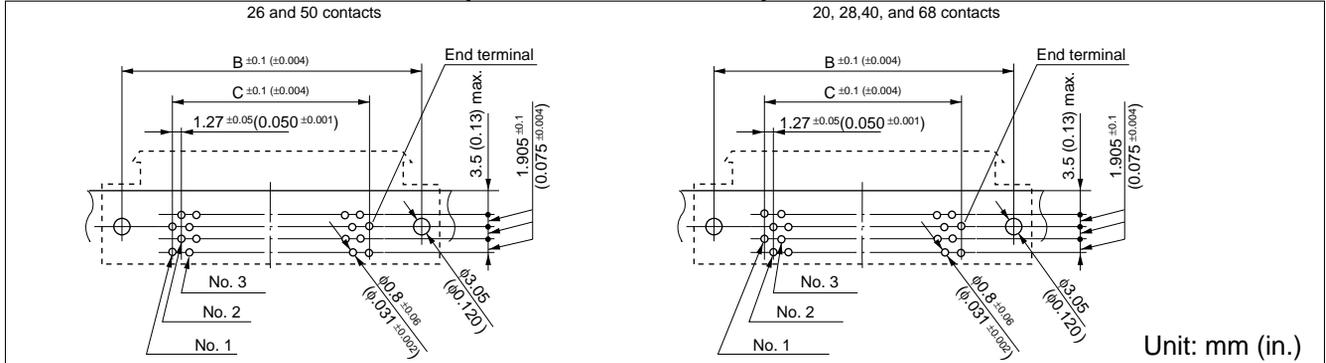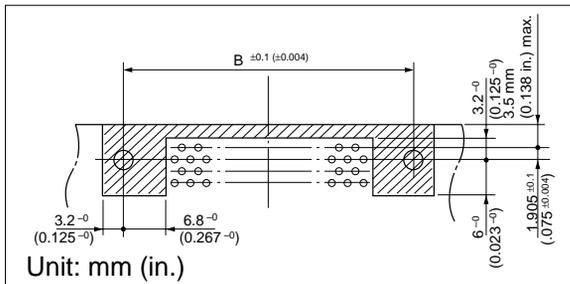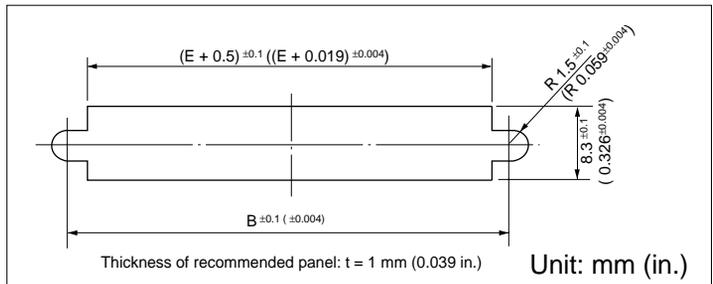
Thickness of board: t = 1.6 mm (0.063 in.)

■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)

26 and 50 contacts

20, 28, 40, and 68 contacts

Unit: mm (in.)

■ PATTERN INHIBITED AREAS

Unit: mm (in.)

■ RECOMMENDED PANEL DIMENSIONS

Thickness of recommended panel: t = 1 mm (0.039 in.)

Unit: mm (in.)

■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)				
		A	B	C	D	E
20	FCN-235D020-G/H	33.40 (1.314)	27.43 (1.079)	11.46 (0.451)	15.60 (0.614)	23.24 (0.914)
26	FCN-235D026-G/H	37.21 (1.464)	32.24 (1.269)	15.24 (0.600)	19.41 (0.764)	27.05 (1.064)
28	FCN-235D028-G/H	38.48 (1.514)	32.51 (1.279)	16.51 (0.650)	20.68 (0.814)	28.32 (1.114)
40	FCN-235D040-G/H	46.10 (1.841)	40.13 (1.479)	24.13 (0.950)	28.30 (1.114)	35.94 (1.414)
50	FCN-235D050-G/H	52.45 (2.064)	46.48 (1.829)	30.48 (1.200)	34.65 (1.364)	42.29 (1.664)
68	FCN-235D068-G/H	63.88 (2.514)	57.91 (2.279)	41.91 (1.650)	46.08 (1.814)	53.72 (2.114)

This series includes connectors with M2.5 threaded inserts for mounting panels. Specify a part number by replacing -G/H at the end with -G/J.
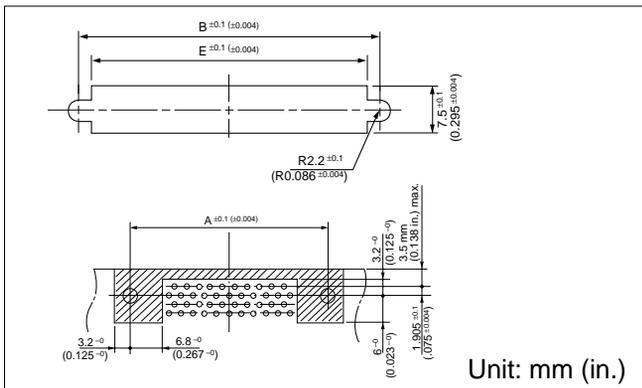Example: FCN-235D050-G/J

FCN-235D-G/ RIGHT ANGLE, BOARD-SOCKET, METAL SHELL, BOARDLOCKS**
(40 PinMII/100 base T std) (68 Pin SCSI III std)
■ DIMENSIONS

Jack Socket FCN-230A24

Unit: mm (in.)

■ PANEL LAYOUT

Unit: mm (in.)

■ PCB LAYOUT

Unit: mm (in.)
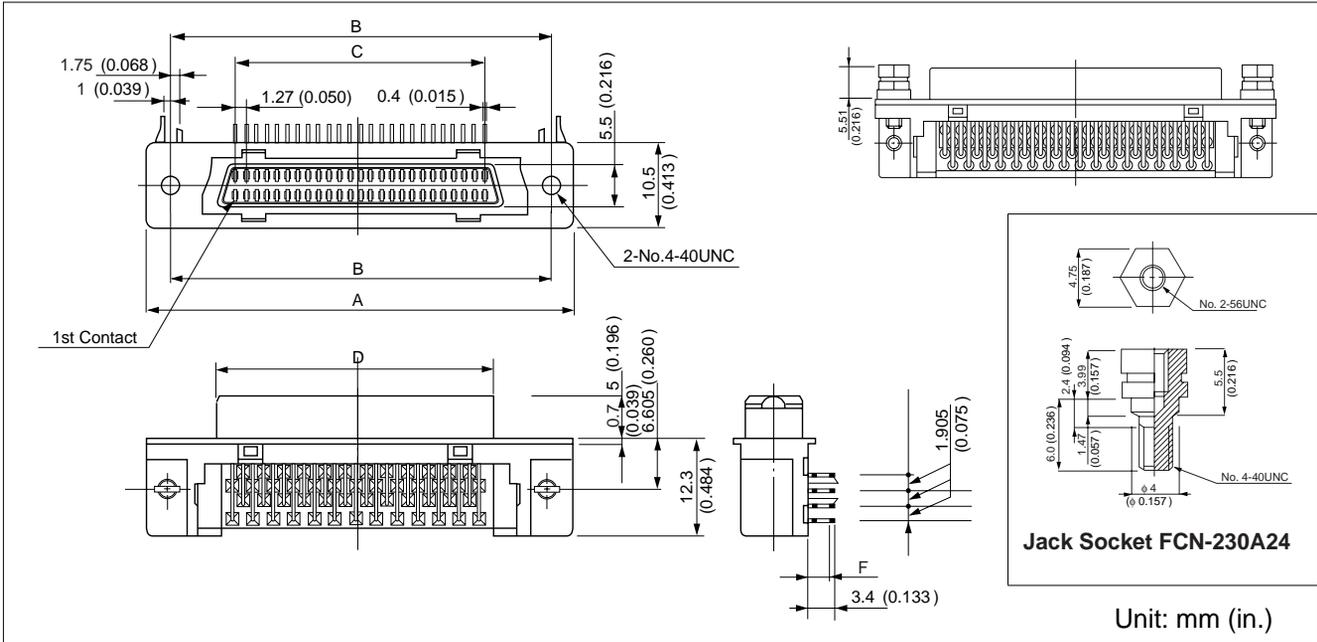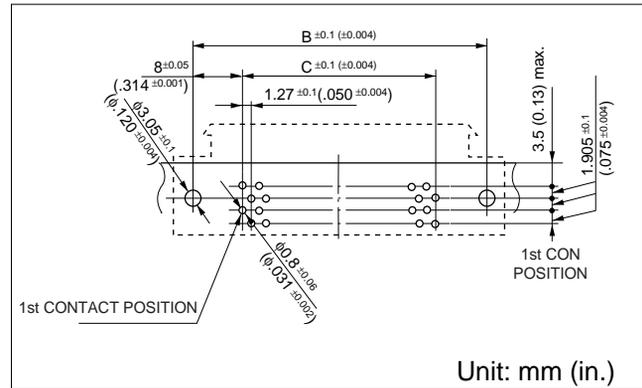
No. of Con-tacts	PART NUMBER	A	B	C	D	E	F	Jack Sockets
40	FCN-235D040-G/HASR-N	46.10(1.815)	40.13(1.830)	24.13(0.950)	28.30(1.114)	36.43(1.434)	2.54	INSTALLED
40	FCN-235D040-G/HAR-N	46.10(1.815)	40.13(1.830)	24.13(0.950)	28.30(1.114)	36.43(1.434)	3.40	INSTALLED
40	FCN-235D040-G/HBSR-N	46.10(1.815)	40.13(1.830)	24.13(0.950)	28.30(1.114)	36.43(1.434)	2.54	—
40	FCN-235D040-G/HBR-N	46.10(1.815)	40.13(1.830)	24.13(0.950)	28.30(1.114)	36.43(1.434)	3.40	—
68	FCN-235D068-G/HASR-N	63.88(2.515)	57.91(2.280)	41.91(1.650)	46.08(1.814)	54.21(2.134)	2.54	INSTALLED
68	FCN-235D068-G/HAR-N	63.88(2.515)	57.91(2.280)	41.91(1.650)	46.08(1.814)	54.21(2.134)	3.40	INSTALLED
68	FCN-235D068-G/HBSR-N	63.88(2.515)	57.91(2.280)	41.91(1.650)	46.08(1.814)	54.21(2.134)	2.54	—
68	FCN-235D068-G/HBR-N	63.88(2.515)	57.91(2.280)	41.91(1.650)	46.08(1.814)	54.21(2.134)	3.40	—

RIGHT-ANGLE SOCKET (SCREW LOCK TYPE)
■ DIMENSIONS

63.88 (2.514)
57.91 (2.279)
41.91 (1.633)
1.27(0.050)
0.40 (0.015)
5.5 (0.216)
10.50 (0.413)
46.08 (1.814)
No. 1
2-No. 2-56UNC

5 (0.196)
5.51 (0.216)
6.605 (0.260)
0.70 (0.027)
12.30 (0.484)
4.70 (0.185)
1.905 (0.075)
4.37 (0.173)
0.40 (0.015)
3.4 (0.133)
2-No. 2-56UNC

Unit: mm (in.)

■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)

57.91 ±0.1 (2.279 ±0.004)
41.73 ±0.1 (1.642 ±0.004)
1.27 ±0.1 (0.050 ±0.004)
3.5 mm (0.138 in.) max.
1.905 ±0.1 (0.075 ±0.004)
Position of pin 2
Position of pin 1
ϕ0.8 ±0.06 (ϕ.031 ±0.002)
2-ϕ3.0 (2-ϕ0.118)
Thickness of board : t = 1.6 mm (0.063 in.)

Unit: mm (in.)

■ PATTERN INHIBITED AREAS

57.91 ±0.1 (2.279 ±0.004)
3.2 $^{-0}$ (0.125 $^{-0}$)
3.5 mm (0.138 in.) max.
1.905 ±0.1 (.075 ±0.004)
3.2 $^{-0}$ (0.125 $^{-0}$)
6.8 $^{-0}$ (0.267 $^{-0}$)
6 $^{-0}$ (0.023 $^{-0}$)

Unit: mm (in.)

■ RECOMMENDED PANEL DIMENSIONS

54.21 ±0.1 (2.134 ±0.004)
7.5 ±0.1 (0.295 ±0.004)
57.91 ±0.1 (2.279 ±0.004)
R 2.2 ±0.1 (R 0.086 ±0.004)
Thickness of recommended panel: t = 1.5 mm (0.059 in.)

Unit: mm (in.)

■ PART NUMBER

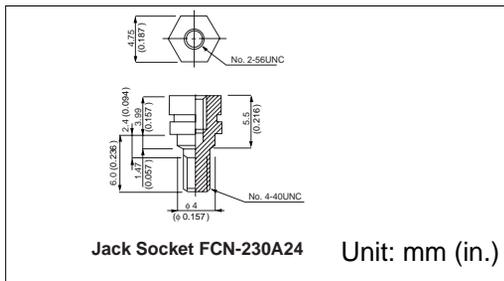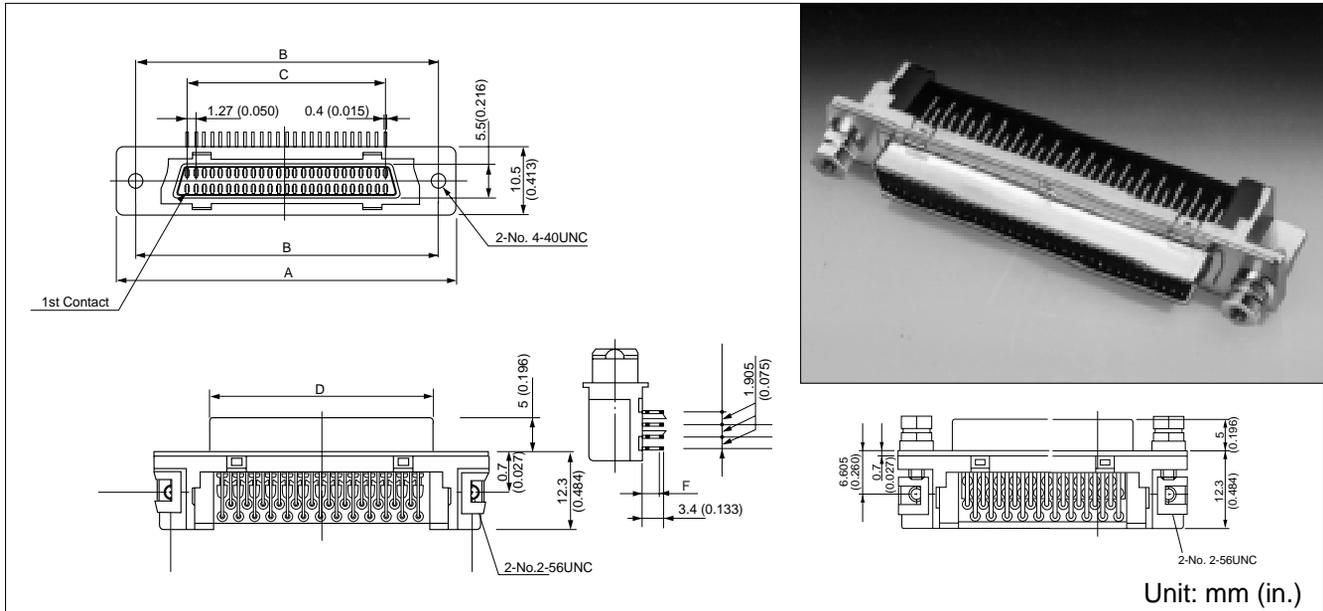FCN-235D068-G/EA

■ NUMBER OF CONTACTS

68 contacts

Note: Remove the spacer to mount the connector on the panel, then tighten the hexagon nuts. Make sure that the panel is sandwiched between the connector and nuts.

STRAIGHT SOCKET (SINGLE-OPERATION LOCK TYPE)
■ DIMENSIONS

Unit: mm (in.)

Jack Socket FCN-230A24   Unit: mm (in.)

■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)
■ PANEL LAYOUT

Unit: mm (in.)

■ PCB LAYOUT

1st CONTACT POSITION

Unit: mm (in.)
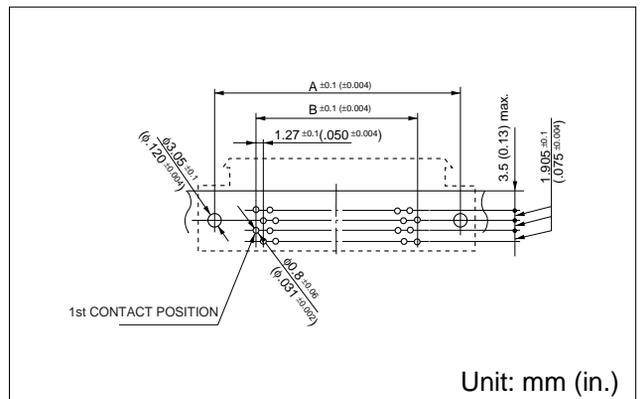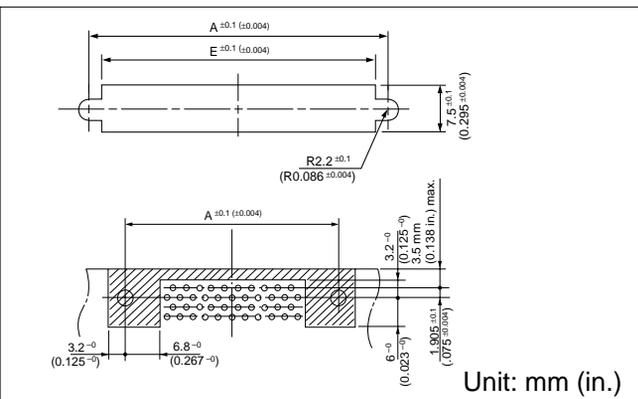
No. of Con-tacts	PART NUMBER	A	B	C	D	E	F	Jack Sockets
68	FCN-235D068-G/HA	63.88(2.515)	57.91(2.280)	41.91(1.650)	46.08(1.814)	54.21(2.134)	3.40	Yes
68	FCN-235D068-G/HB	63.88(2.515)	57.91(2.280)	41.91(1.650)	46.08(1.814)	54.21(2.134)	3.40	No

FCN-237R**-G/* IDC TYPE, CABLE-PLUG
■ DIMENSIONS

Main Body

End contact

Number 1 contact

Number 3 contact

Number 2 contact

Cover 1

Cover 2

Assembled Part

Unit: mm (in.)
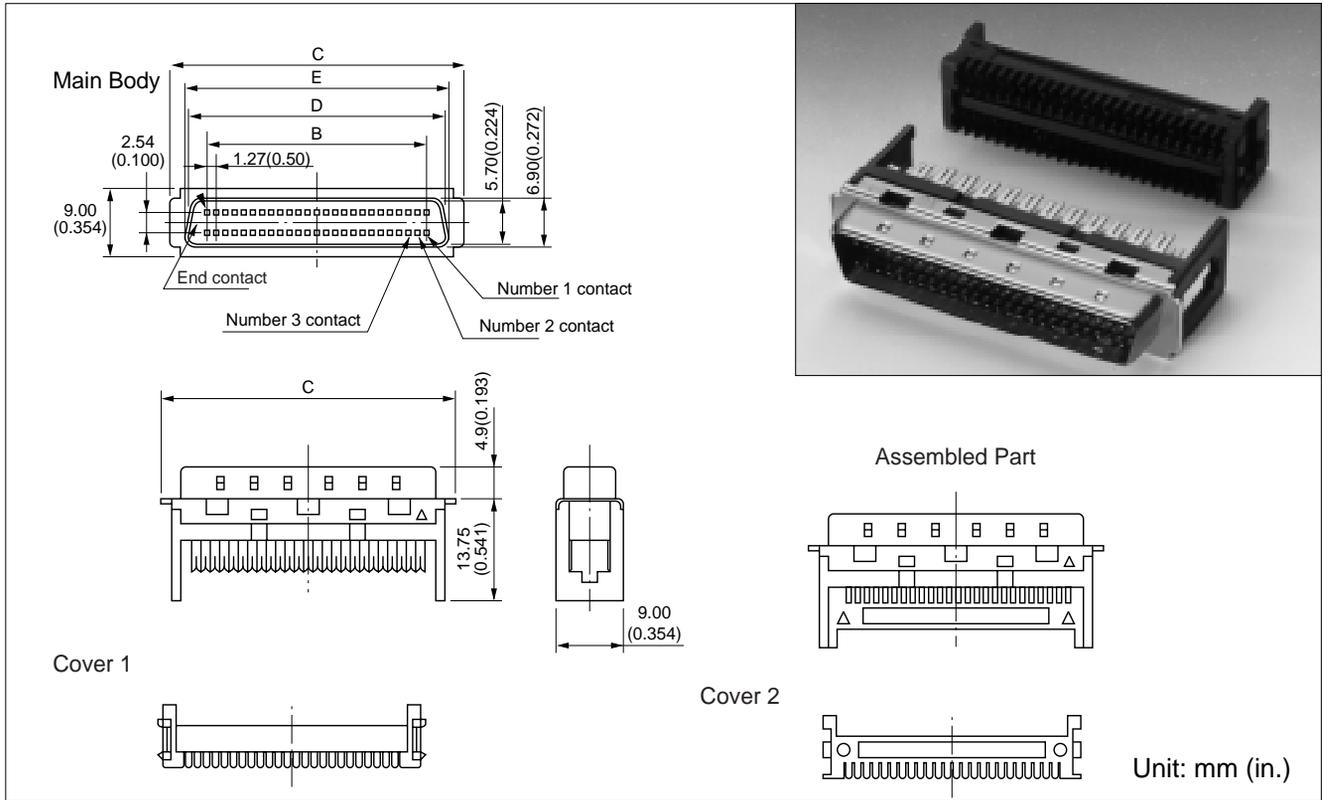
■ PART NUMBERS AND DIMENSIONS

No. of Contacts	External Diameter of Applied Wire	PART NUMBER	Dimensions mm (in.)				
			A	B	C	D	E
20	φ0.8 to 0.88 mm (0.031 to 0.035)	FCN-237R020-G/F	16.75(0.659)	11.43(0.450)	21.25(0.837)	15.80(0.622)	17.00(0.669)
	0.5 to 0.65 mm (0.020 to 0.026)	FCN-237R020-G/E					
	0.66 to 0.79 mm (0.026 to 0.030)	FCN-237R020-G/G					
26	0.8 to 0.88 mm (0.031 to 0.035)	FCN-237R026-G/F	20.65(0.809)	15.24(0.600)	25.06(0.987)	19.61(0.722)	20.81(0.819)
	0.5 to 0.65 mm (0.020 to 0.026)	FCN-237R026-G/E					
28	0.8 to 0.88 mm (0.031 to 0.035)	FCN-237R028-G/F	21.83(0.859)	16.51(0.650)	26.33(1.037)	20.88(0.822)	22.08(0.869)
	0.5 to 0.65 mm (0.020 to 0.026)	FCN-237R028-G/E					
40	0.8 to 0.88 mm (0.031 to 0.035)	FCN-237R040-G/F	29.45(1.159)	24.13(0.950)	33.95(1.377)	28.50(1.122)	29.70(1.169)
	0.66 to 0.79 mm (0.026 to 0.030)	FCN-237R040-G/G					
50	0.8 to 0.88 mm (0.031 to 0.035)	FCN-237R050-G/F	35.80(1.409)	30.48(1.200)	40.30(1.587)	34.85(1.587)	36.05(1.419)
	0.5 to 0.65 mm (0.020 to 0.026)	FCN-237R050-G/E					
	0.66 to 0.79 mm (0.026 to 0.030)	FCN-237R050-G/G					
68	0.8 to 0.88 mm (0.031 to 0.035)	FCN-237R068-G/F	47.23(1.859)	41.91(1.650)	51.73(2.037)	46.28(1.822)	47.48(1.869)
	0.5 to 0.65 mm (0.020 to 0.026)	FCN-237R068-G/E					
	0.66 to 0.79 mm (0.026 to 0.030)	FCN-237R068-G/G					
100	0.8 to 0.88 mm (0.031 to 0.035)	FCN-237R100-G/F	67.55(2.659)	62.23(2.450)	72.05(2.837)	66.60(2.622)	67.80(2.669)
	0.5 to 0.65 mm (0.020 to 0.026)	FCN-237R100-G/E					

METAL COVER (ONE-TOUCH LOCK TYPE)
■ DIMENSIONS

[A/E or C/E type]

12.0 (0.472)
10.0 (0.393)

A

32.5 (1.279)

B

D

C

[D/E type]

7.5 (0.295)

A

12.0 (0.472)
10.0 (0.393)

Indent

E D C B A

1 2 3 4 5

32.5 (1.279)

B

C

D

The D/E type has indents to prevent incorrect insertion.

Unit: mm (in.)
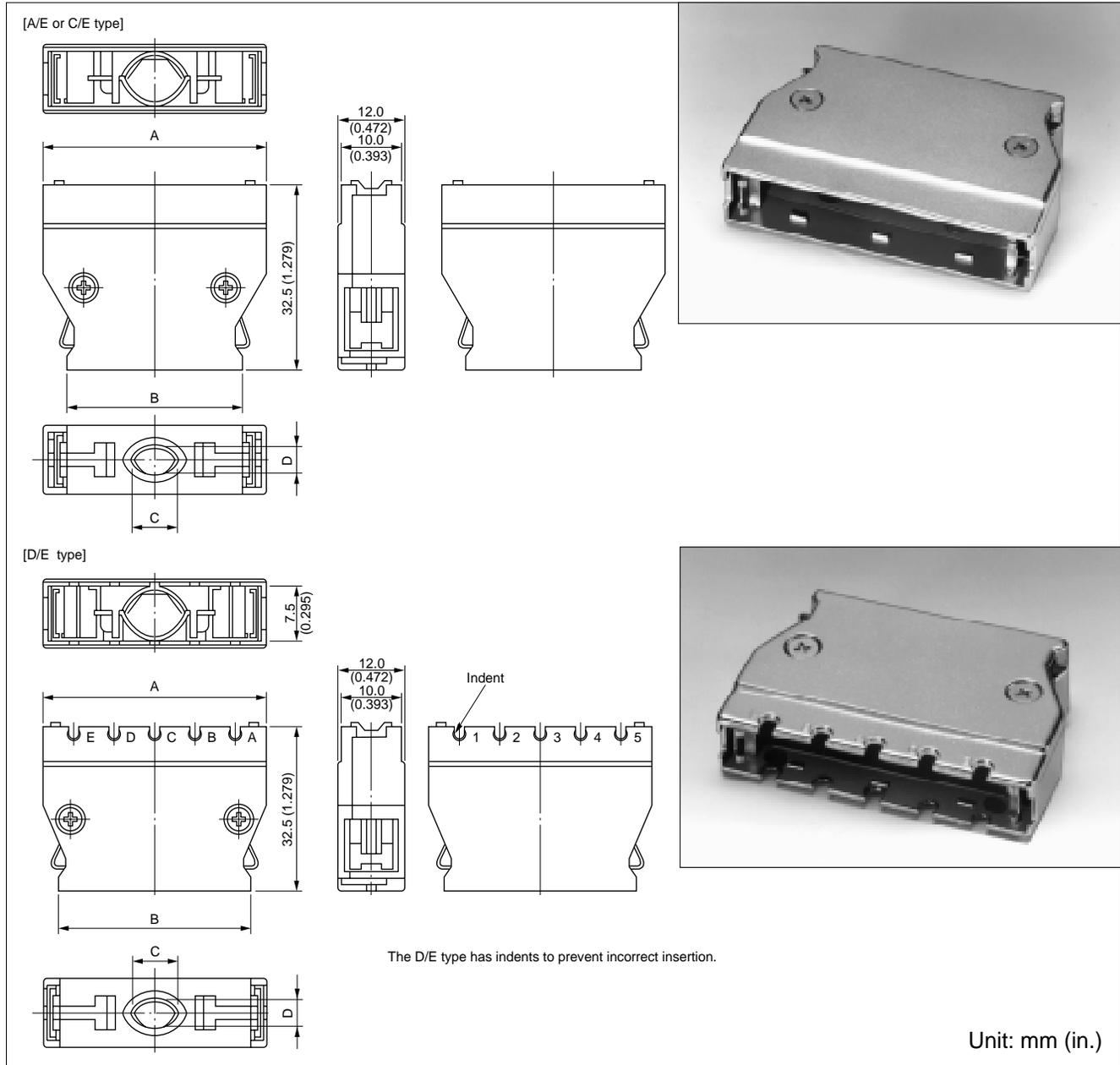
■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)		
		A	B	C
20	FCN-230C020-A/E	28.95 (1.139)	21.15 (0.832)	6.5 × 4.5 (0.255 × 0.177)
	FCN-230C020-C/E			8.5 × 8.2 (0.334 × 0.322)
26	FCN-230C026-C/E	32.76 (1.298)	24.96 (0.982)	7.2 × 8.5 (0.283 × 0.334)
28	FCN-230C028-A/E	34.03 (1.339)	26.23 (1.032)	6.5 × 6.0 (0.255 × 0.236)
	FCN-230C028-C/E			7.2 × 8.5 (0.289 × 0.334)
40	FCN-230C040-C/E	41.65 (1.639)	33.85 (1.332)	9.0 × 10.0 (0.354 × 0.393)
50	FCN-230C050-A/E	48.00 (1.889)	40.20 (1.582)	8.5 × 7.0 (0.334 × 0.275)
	FCN-230C050-C/E			10.0 × 9.7 (0.395 × 0.381)
	FCN-230C050-D/E			14.7 × 10.4 (0.585 × 0.409)
68	FCN-230C068-A/E	59.43 (2.339)	51.63 (2.032)	9.0 × 8.0 (0.354 × 0.314)
	FCN-230C068-C/E			10.0 × 9.0 (0.395 × 0.354)
	FCN-230C068-D/E			14.7 × 10.4 (0.585 × 0.409)

Specifications subject to change

Dimensions are in millimeters (inches)

BACKSHELL KIT (METAL CAN , PLASTIC SLIDE ON BOOT)
SCSI II
■ DIMENSIONS

Part Number: FCN-230C050-E/SC

ϕ 9.8 (0.386)

11.5 (0.453)

38 (1.496)

Outer cover

Cable clamp

Pan head machine screw

Latch

32 (1.259)

42 (1.654)

48.7 (1.917)

Innner cover (2)

Innner cover (1)

Tooling Required
Crimping Tool Plate
FCN-237T-T094/H
Arbor Press
FCN-707T-T101/H

Unit: mm (in.)

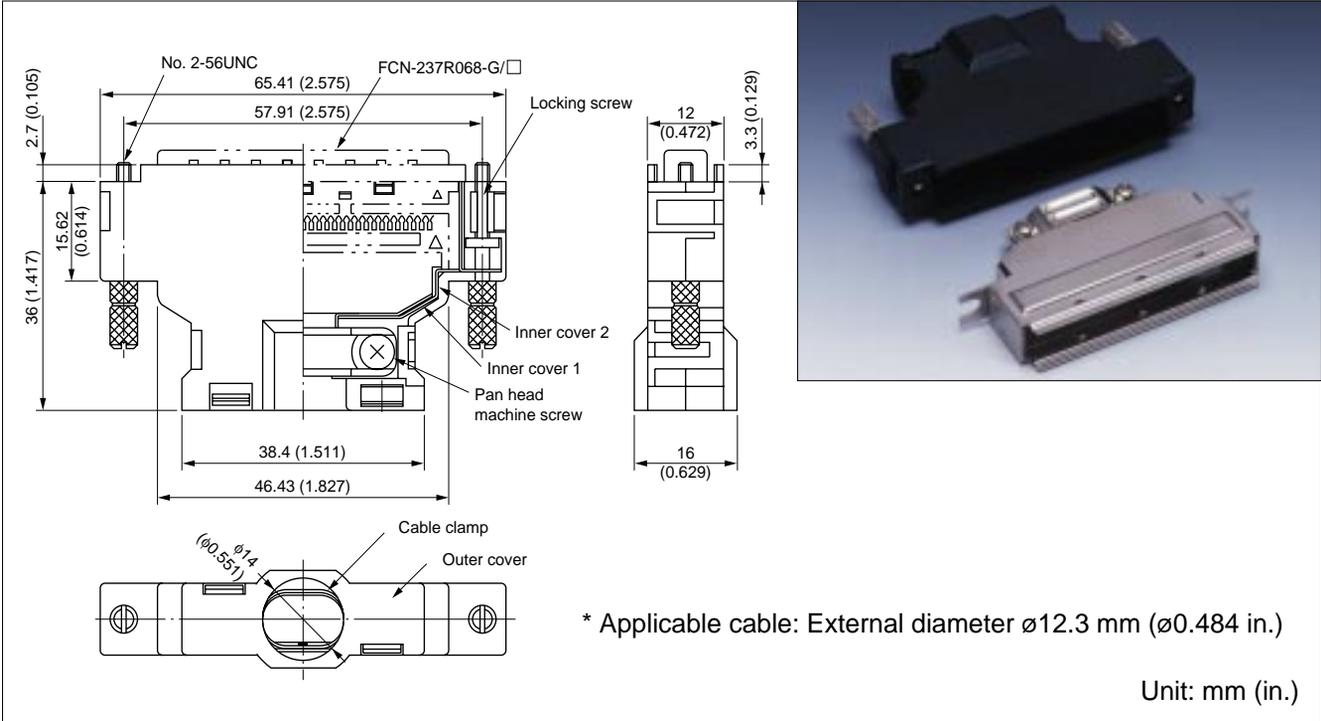## METAL OBTUSE ANGLE CABLE OUT COVER (SINGLE-OPERATION LOCK TYPE)
■ DIMENSIONS

8.4

C

D

View of A

Flat head machine screw

Locking lever

A

12 (0.472)

10 (0.393)

Cover (12)

Cover (11)

B

-11 (-0.433)

A

E

4°

Unit: mm (in.)

■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)				
		A	B	C	D	E
40	FCN-230C040-L/E	41.65 (1.639)	33.80 (1.330)	10.60 (0.417)	6.34 (0.249)	19°
50	FCN-230C050-L/E	48.00 (1.889)	35.50 (1.397)	11.38 (0.448)	6.70 (0.263)	15°

EMI/ESD RESISTANT COVER (SCREW LOCK TYPE)
SCSI III 68 POSITION
■ DIMENSIONS

No. 2-56UNC

FCN-237R068-G/□

2.7 (0.105)

65.41 (2.575)

57.91 (2.575)

Locking screw

12 (0.472)

3.3 (0.129)

15.62 (0.614)

36 (1.417)

Inner cover 2

Inner cover 1

Pan head machine screw

38.4 (1.511)

46.43 (1.827)

16 (0.629)

ø14 (ø0.551)

Cable clamp

Outer cover

* Applicable cable: External diameter ø12.3 mm (ø0.484 in.)

Unit: mm (in.)

■ PART NUMBERS

Part number	Applicable Cable
FCN-230C068-E/S	Ø12.3 mm (Ø0.484 in.)
FCN-230C068-E/SA	Ø11.5mm (Ø0.452 in.)

ACCESSORY (DUST CAP FOR SOCKET) (230R SERIES AND 240R SERIES)

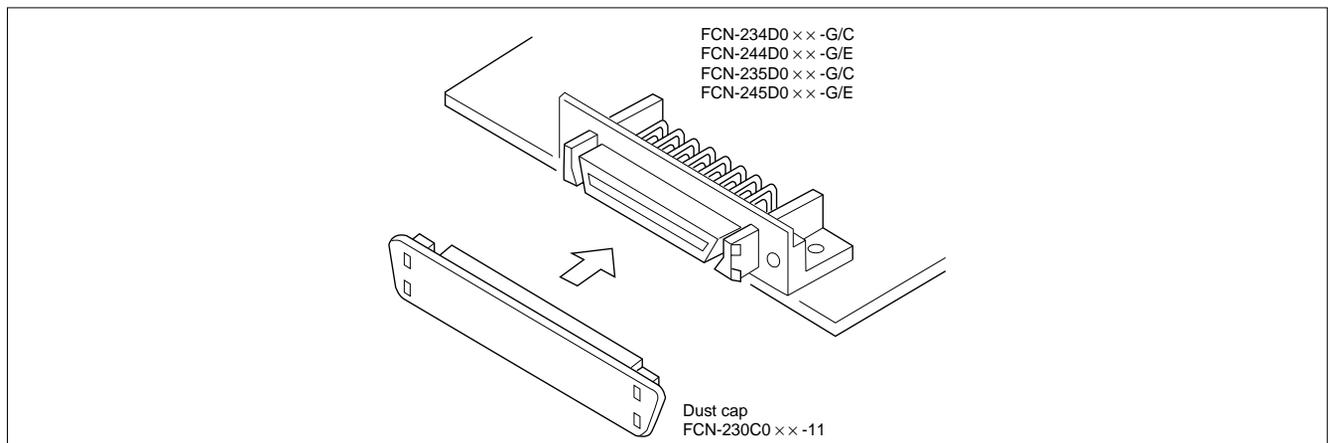Used to prevent dust from entering the contact section of a socket connector.

■ DIMENSIONS

Material : Polypropylene
Color : Sand beige

Unit: mm (in.)
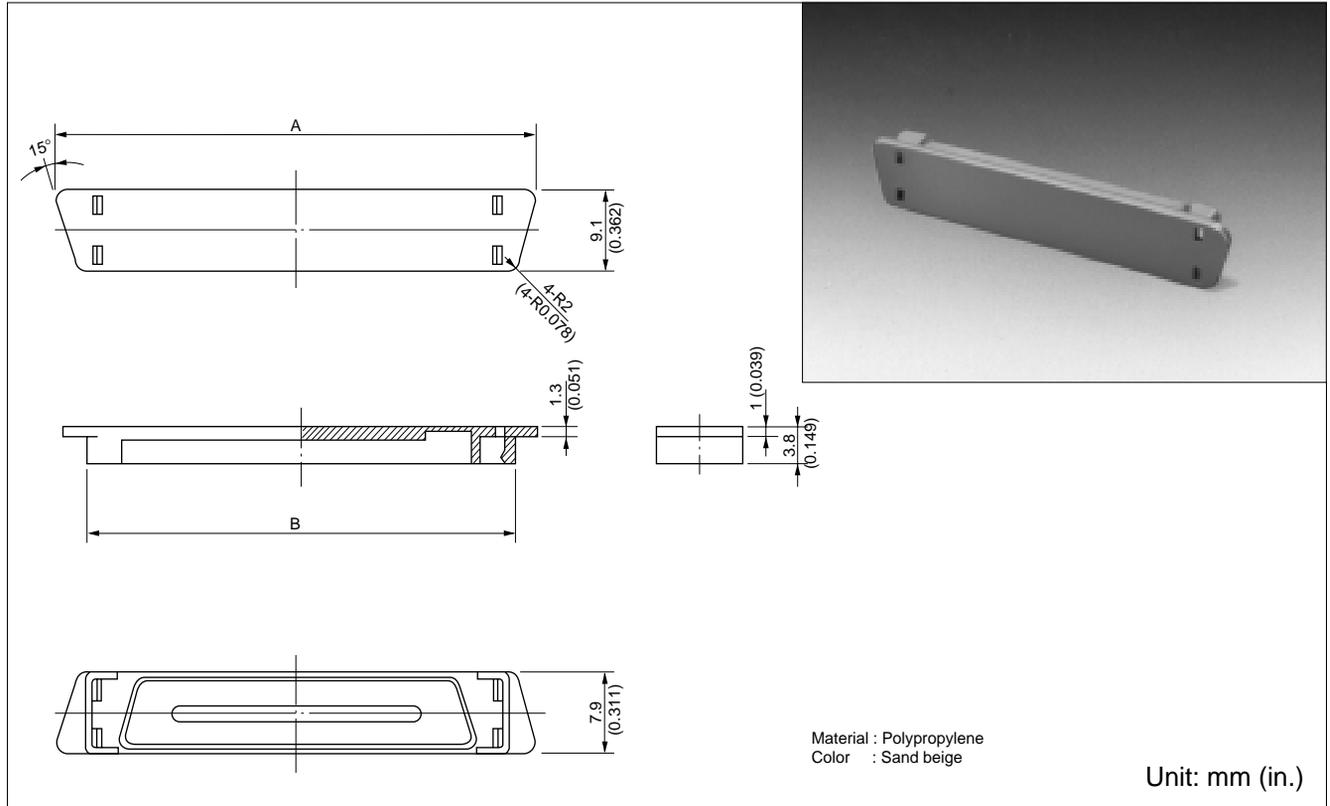
■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)	
		A	B
28	FCN-230C028-11	35.7 (1.405)	30.1 (1.185)
36	FCN-230C036-11	40.8 (1.606)	35.2 (1.385)
50	FCN-230C050-11	49.7 (1.956)	44.1 (1.736)
68	FCN-230C068-11	61.1 (2.405)	55.5 (2.185)

■ APPLICATIONS

FCN-234D0 × × -G/C
FCN-244D0 × × -G/E
FCN-235D0 × × -G/C
FCN-245D0 × × -G/E

Dust cap
FCN-230C0 × × -11

CABLE ASSEMBLY TOOLS

The following tools are needed to assemble FCN-230/230R/240/240R series connectors.

- Cable aligner (semiautomatic cable aligner or hand tool)
- IDC tool

1. Cable Aligner

| Item	Semiautomatic cable aligner			Hand tool
	Body/Controller	**Bed**	**Adaptor**	
FCN-237J	FCN-M561-A/C	FCN-P560-2/A	FCN-K560-A-xxx	FCN-237T-T062/H
FCN-237R			FCN-K560-R-xxx	
FCN-247J			FCN-K560-K-xxx	
FCN-247R		FCN-P560-2/J	FCN-K560-J-xxx	FCN-247T-T061/H

xxx indicates the number of contacts.

2. Insulation Displacement Connection (IDC) tool

Item	Hand press	Head/Table
FCN-237J	FCN-237T-T109/H	FCN-237T-T064/H
FCN-237R		FCN-237T-T067/H
FCN-237D		FCN-237T-T075/H
FCN-247J		FCN-247T-T066/H
FCN-247R		FCN-247T-T068/H
FCN-247D		FCN-247T-T077/H

- Cable aligner
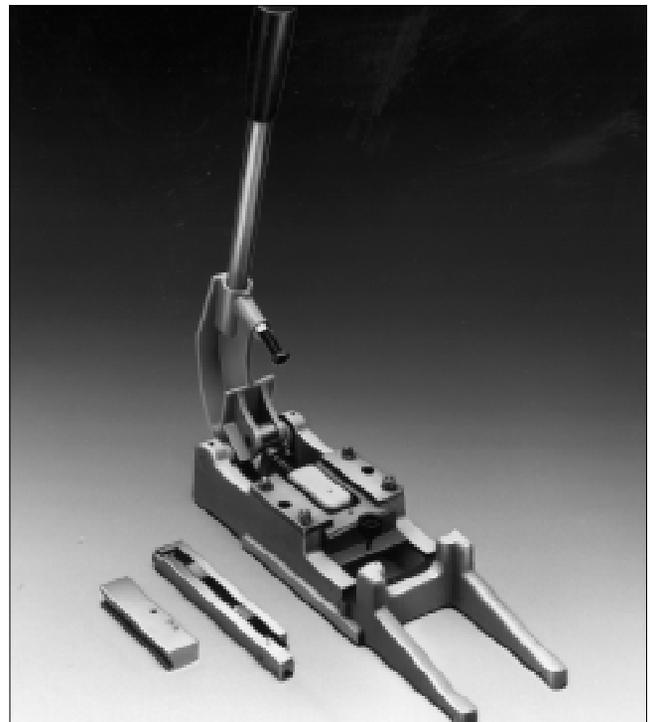
- Insulation displacement connection (IDC) tool

Semi-Automatic Tools
Cable Aligning Machine
Main Body (FCN-M551-120, FCN-M551-220)
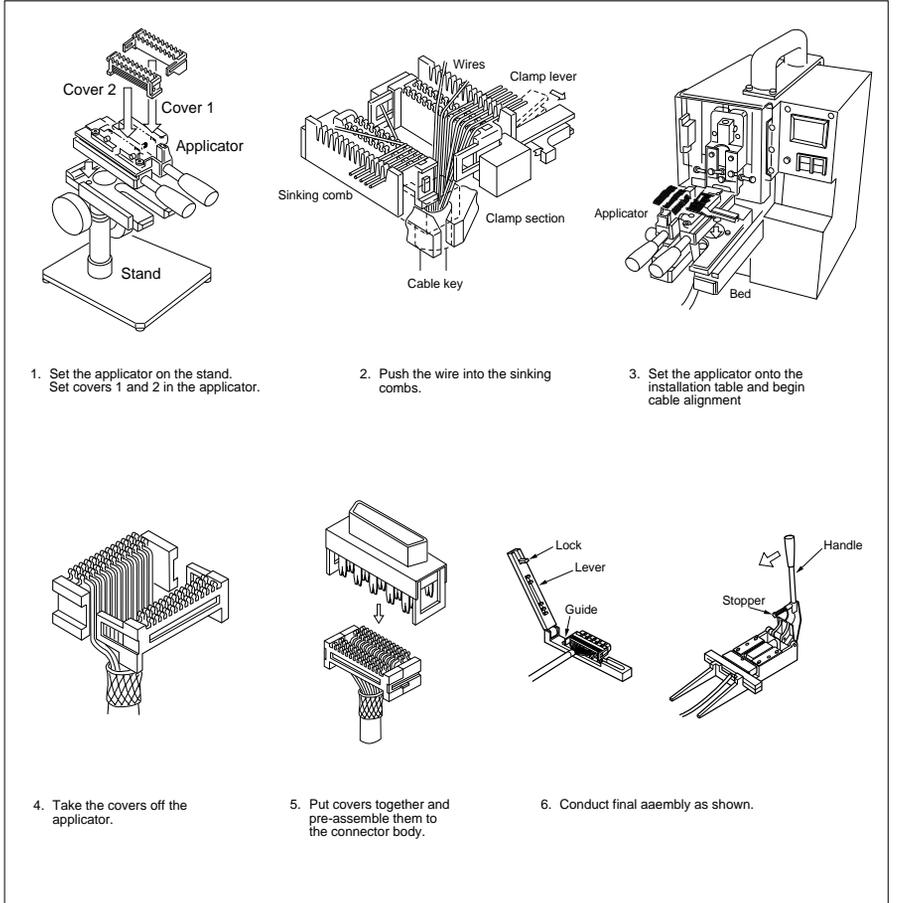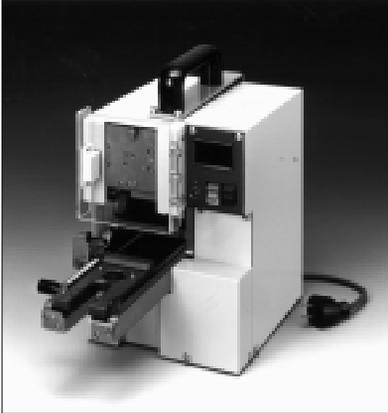
Head (FCN-H550-1/A

Stand (FCN-D550)

Applicator (FCN-A550-1/A-xxx)

IDC Tool (FCN-237T-T109/H, FCN-237T-T067/H locator)

Cover 2
Cover 1
Applicator
Stand

Wires
Clamp lever
Sinking comb
Clamp section
Cable key

Applicator
Bed

1. Set the applicator on the stand. Set covers 1 and 2 in the applicator.

2. Push the wire into the sinking combs.

3. Set the applicator onto the installation table and begin cable alignment

Lock
Lever
Guide
Handle
Stopper

4. Take the covers off the applicator.

5. Put covers together and pre-assemble them to the connector body.

6. Conduct final aaembly as shown.

FCN-230R SERIES SCSI II CABLE CONNECTORS

SOCKET: FCN-237R***-G/E, G/F (***: 020, 026, 028, 050, 068)

Pos No.	Applied Wire (wire Dia.: mm)	Connector Part number	Cable Aligner		IDC Tool
			Hand Tool	Semi-Auto	
20 — 68	#28 or #30 (0.8 to 0.88)	FCN-237R020-G/F — FCN-237R068-G/F	FCN-237T-T062/H — FCN-237t-t043/H	(See below*)	HAND PRESS: FCN-237T-T109/H HEAD & Locator: FCN-237T-T067/H
	#28 or #30 (0.5 to 0.65)	FCN-237R020-G/E — FCN-237R068-G/E			

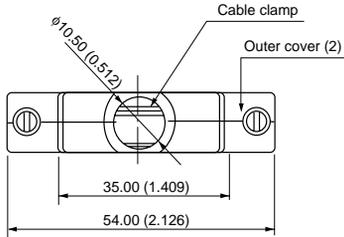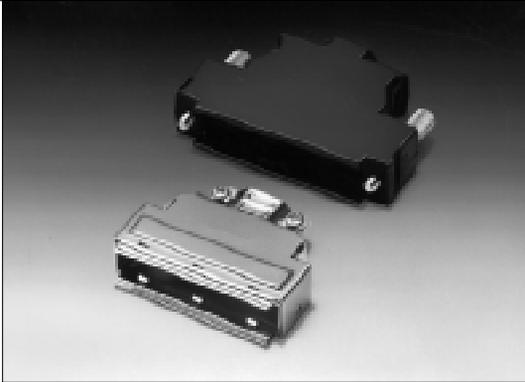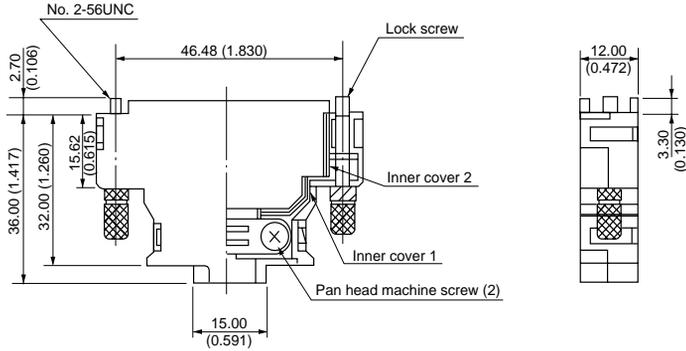Semi-automatic-Medium Level
Body: :FCN-M551-120
Head Assembly: FCN-H550
Applicator: :FCN-A550-1/A-***(***: 020, 028, 036, 050, 068, 080)
Stand: :FCN-D550

EMI/ESD RESISTANT COVER
■ DIMENSIONS

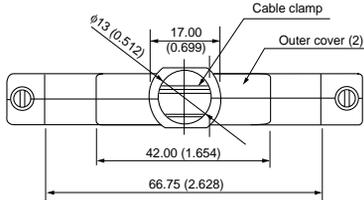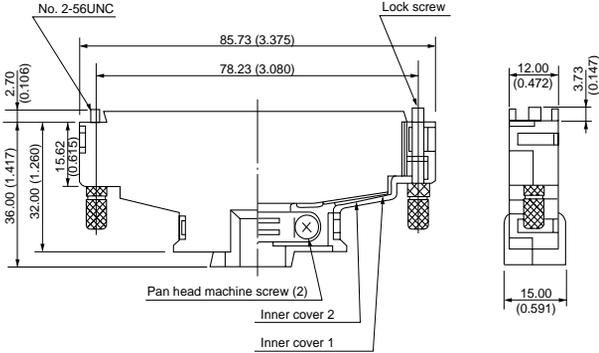Number of contacts: 50 contacts
Part number: FCN-230C050-E/S

No. 2-56UNC
2.70 (0.106)
46.48 (1.830)
Lock screw
36.00 (1.417)
32.00 (1.260)
15.62 (0.615)
12.00 (0.472)
3.30 (0.130)
Inner cover 2
Inner cover 1
Pan head machine screw (2)
15.00 (0.591)

Cable clamp
Outer cover (2)
ø10.50 (0.512)
35.00 (1.409)
54.00 (2.126)

Unit: mm (in.)

Number of contacts: 100 contacts
Part number: FCN-230C100-E/S

No. 2-56UNC
2.70 (0.106)
85.73 (3.375)
78.23 (3.080)
Lock screw
36.00 (1.417)
32.00 (1.260)
15.62 (0.615)
12.00 (0.472)
3.73 (0.147)
Pan head machine screw (2)
Inner cover 2
Inner cover 1
15.00 (0.591)

Cable clamp
Outer cover (2)
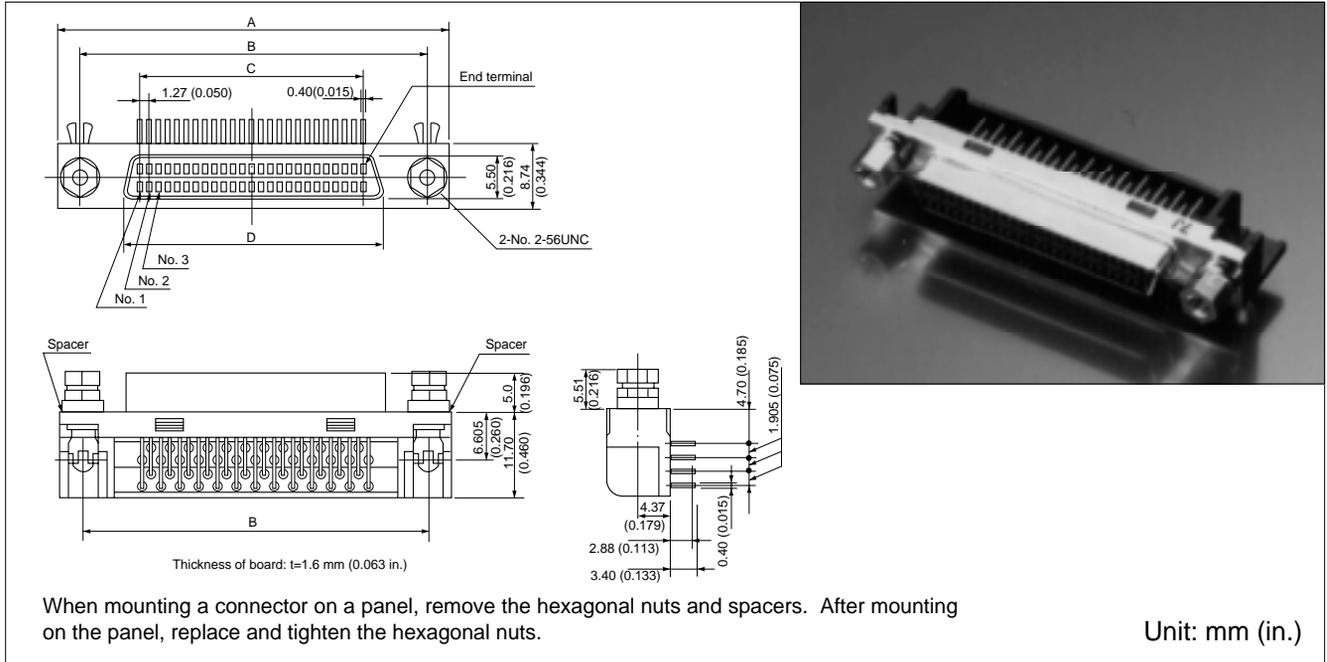ø13 (0.512)
17.00 (0.699)
42.00 (1.654)
66.75 (2.628)

Unit: mm ((in.)

This series includes connectors with No.4-40UNC lock screws. Specify a part number by replacing -E/S at the end with -F/S.
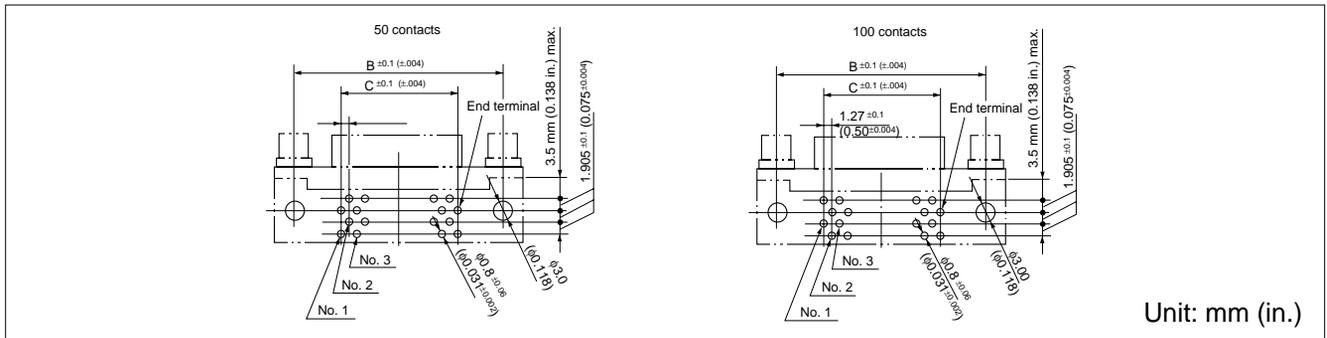Example: FCN-230C100-F/S

RIGHT-ANGLE SOCKET WITH HEXAGONAL NUTS FOR BOARD LOCK
■ DIMENSIONS

End terminal

1.27 (0.050)   0.40 (0.015)

5.50 (0.216)
8.74 (0.344)

2-No. 2-56UNC

No. 3
No. 2
No. 1

Spacer   Spacer

5.0 (0.196)
6.605 (0.260)
11.70 (0.460)

5.51 (0.216)
4.70 (0.185)
1.905 (0.075)

4.37 (0.179)
2.88 (0.113)
3.40 (0.133)
0.40 (0.015)

Thickness of board: t=1.6 mm (0.063 in.)

When mounting a connector on a panel, remove the hexagonal nuts and spacers. After mounting on the panel, replace and tighten the hexagonal nuts.

Unit: mm (in.)

■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)

50 contacts

B ±0.1 (±.004)
C ±0.1 (±.004)
End terminal
3.5 mm (0.138 in.) max.
1.905 ±0.1 (0.075 ±0.004)
No. 3
No. 2
No. 1
ϕ0.8 ±0.06 (ϕ0.031 ±0.002)
ϕ3.0 (ϕ0.118)

100 contacts

B ±0.1 (±.004)
C ±0.1 (±.004)
1.27 ±0.1 (0.50 ±0.004)
End terminal
3.5 mm (0.138 in.) max.
1.905 ±0.1 (0.075 ±0.004)
No. 3
No. 2
No. 1
ϕ0.8 ±0.06 (ϕ0.031 ±0.002)
ϕ3.00 (ϕ0.118)

Unit: mm (in.)

■ PATTERN INHIBITED AREAS

B ±0.1 (±.004)
3.3 −0 (0.130 −0)
11.6 −0 (0.457 −0)
2.7 −0 (0.106 −0)
6.0 −0 (0.236 −0)

Unit: mm (in.)

■ RECOMMENDED PANEL DIMENSIONS

(B − 3.7) ±0.1 ((− 0.146) ±.004)
R 1.4 ±0.1 (0.055 ±.004)
7.5 ±0.1 (0.295 ±.004)
B ±0.1 (±.004)

Thickness of recommended panel: t = 1.5 mm (0.059 in.)

Unit: mm (in.)

■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)			
		A	B	C	D
50	FCN-235D050-G/P#BA	52.45 (2.065)	46.48 (1.830)	30.48 (1.200)	34.65 (1.364)
100	FCN-235D100-G/P#BA	84.20 (3.315)	78.23 (3.080)	62.23 (2.450)	66.40 (2.614)

This series includes connectors with No.4-40UNC screws for hexagonal nuts. Specify a part number by replacing #BA at the end with #AA.
Example: FCN-235D100-G/P#AA

230R Series (Conforms to SCSI)

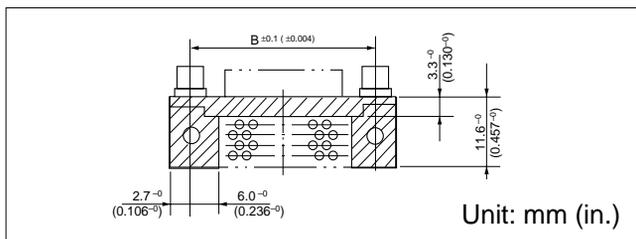## RIGHT-ANGLE SOCKET WITH HEXAGONAL NUTS FOR BOARD LOCK
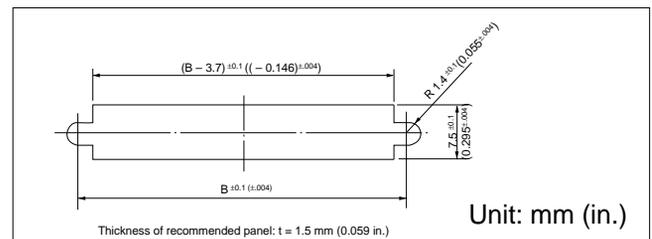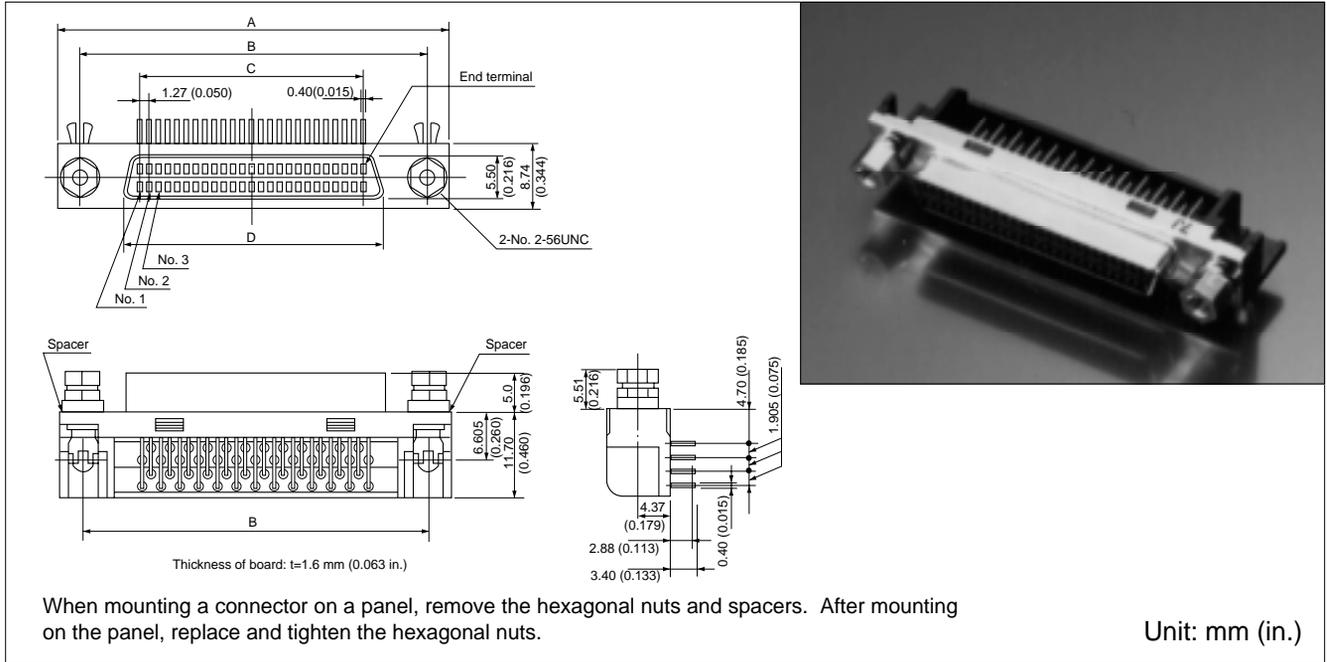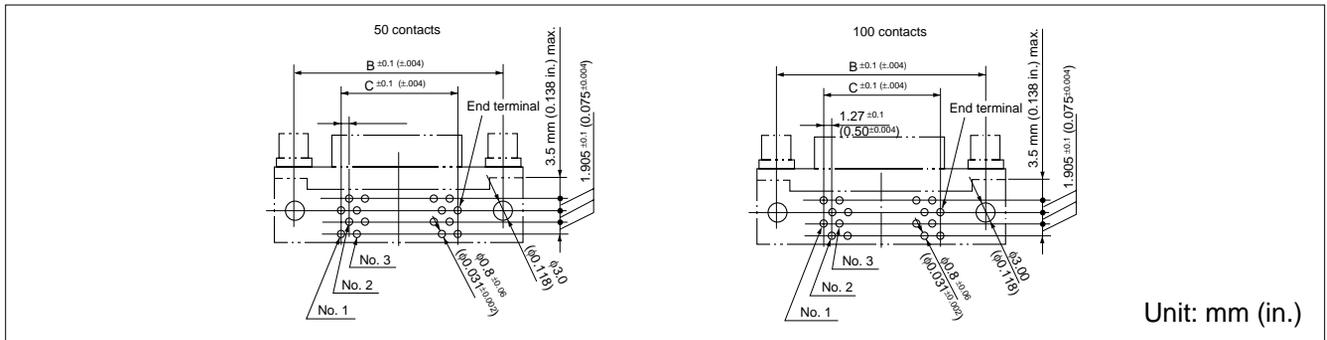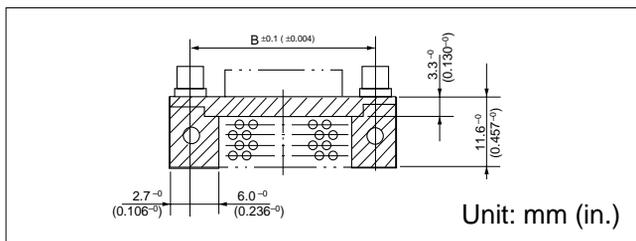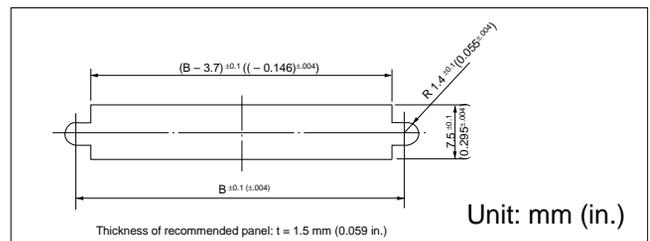### ■ DIMENSIONS

When mounting a connector on a panel, remove the hexagonal nuts and spacers. After mounting on the panel, replace and tighten the hexagonal nuts.

Unit: mm (in.)

■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)

50 contacts　　100 contacts

Unit: mm (in.)

■ PATTERN INHIBITED AREAS

Unit: mm (in.)

■ RECOMMENDED PANEL DIMENSIONS

Thickness of recommended panel: t = 1.5 mm (0.059 in.)

Unit: mm (in.)

■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)			
		A	B	C	D
50	FCN-235D050-G/P#BA	52.45 (2.065)	46.48 (1.830)	30.48 (1.200)	34.65 (1.364)
100	FCN-235D100-G/P#BA	84.20 (3.315)	78.23 (3.080)	62.23 (2.450)	66.40 (2.614)

This series includes connectors with No.4-40UNC screws for hexagonal nuts. Specify a part number by replacing #BA at the end with #AA.
Example: FCN-235D100-G/P#AA

EMI/ESD RESISTANT COVER
■ DIMENSIONS

Number of contacts: 50 contacts
Part number: FCN-230C050-E/S

No. 2-56UNC

2.70 (0.106)
46.48 (1.830)
Lock screw
15.62 (0.615)
36.00 (1.417)
32.00 (1.260)
Inner cover 2
Inner cover 1
Pan head machine screw (2)
15.00 (0.591)

12.00 (0.472)
3.30 (0.130)

ø10.50 (0.512)
Cable clamp
Outer cover (2)
35.00 (1.409)
54.00 (2.126)

Unit: mm (in.)

Number of contacts: 100 contacts
Part number: FCN-230C100-E/S

No. 2-56UNC

2.70 (0.106)
85.73 (3.375)
78.23 (3.080)
Lock screw
15.62 (0.615)
36.00 (1.417)
32.00 (1.260)
Pan head machine screw (2)
Inner cover 2
Inner cover 1

12.00 (0.472)
3.73 (0.147)
15.00 (0.591)

ø13 (0.512)
17.00 (0.699)
Cable clamp
Outer cover (2)
42.00 (1.654)
66.75 (2.628)

Unit: mm ((in.)

This series includes connectors with No.4-40UNC lock screws. Specify a part number by replacing -E/S at the end with -F/S.
Example: FCN-230C100-F/S

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