

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.)



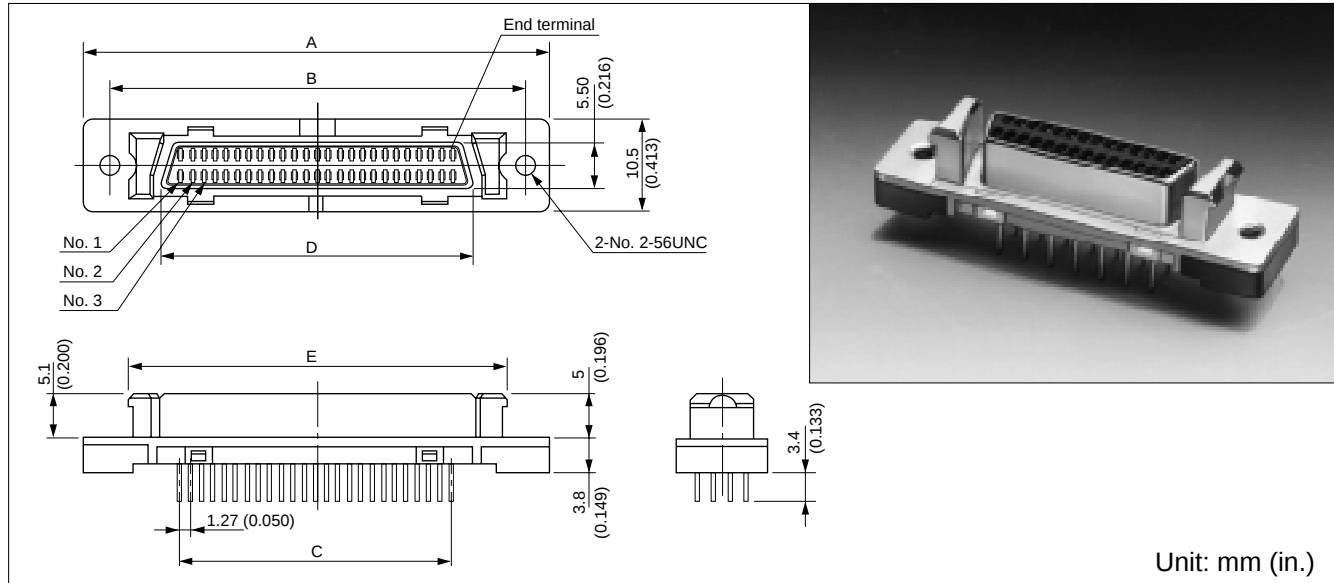
■ MATERIALS

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

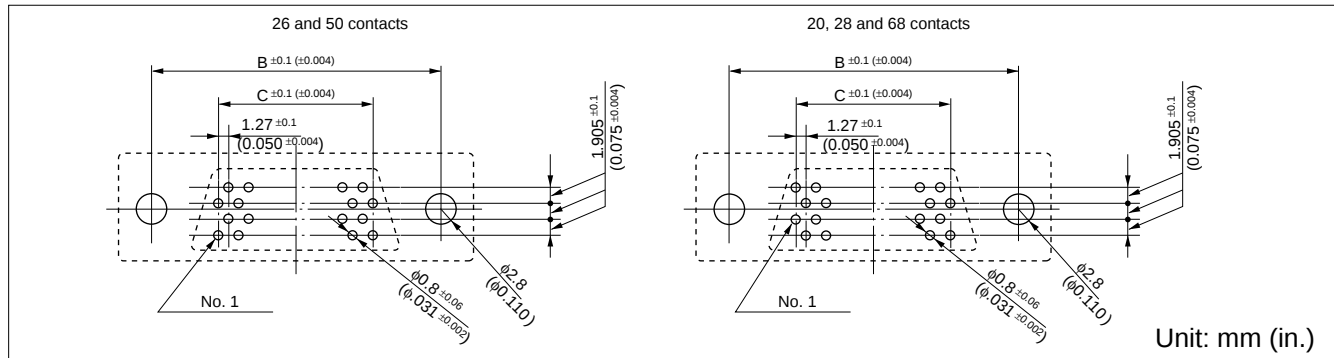
230R Series (Conforms to SCSI)

STRAIGHT SOCKET (SINGLE-OPERATION LOCK TYPE)

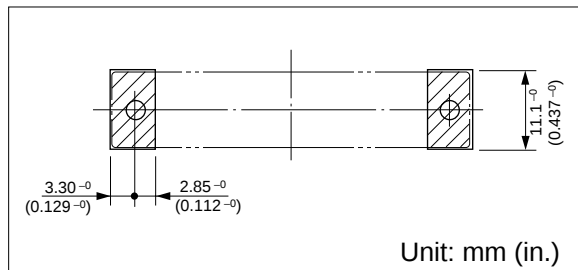
■ DIMENSIONS



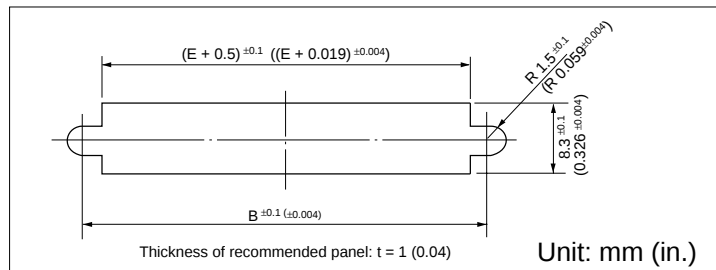
■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)



■ PATTERN INHIBITED AREAS



■ RECOMMENDED PANEL DIMENSIONS



■ PART NUMBERS AND DIMENSIONS

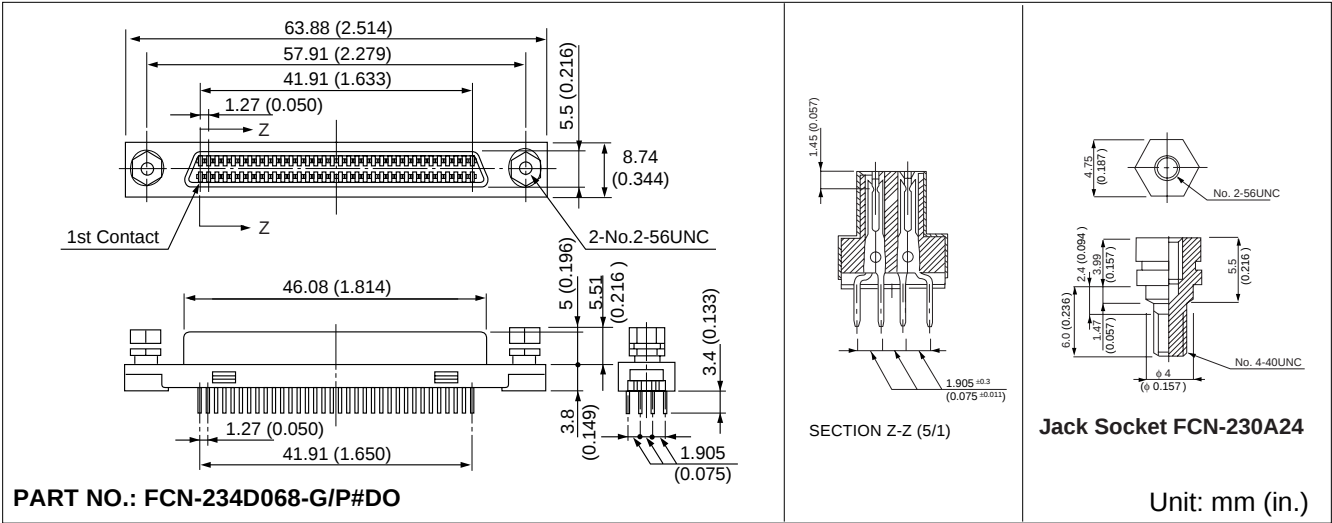
Number of contacts	Part number	Dimensions: mm (in.)				
		A	B	C	D	E
20	FCN-234D020-G/E	33.40 (1.314)	27.43 (1.079)	11.46 (0.451)	15.60 (0.614)	23.24 (0.914)
26	FCN-234D026-G/E	37.21 (1.464)	32.24 (1.269)	15.24 (0.600)	19.41 (0.764)	27.05 (1.064)
28	FCN-234D028-G/E	38.48 (1.514)	32.51 (1.279)	16.51 (0.650)	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.

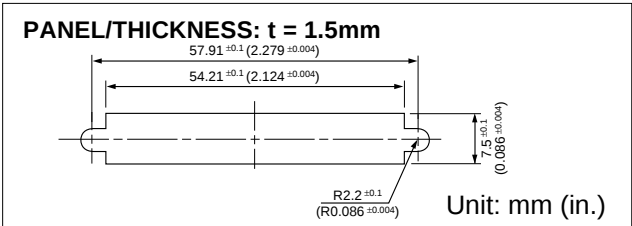
Example: FCN-234D050-G/C

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

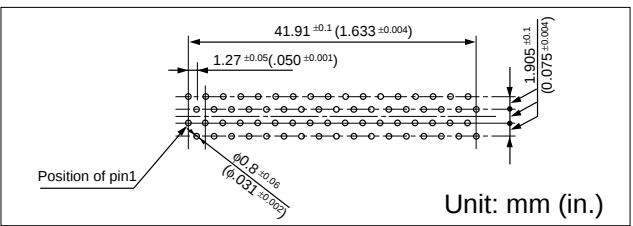
■ DIMENSIONS



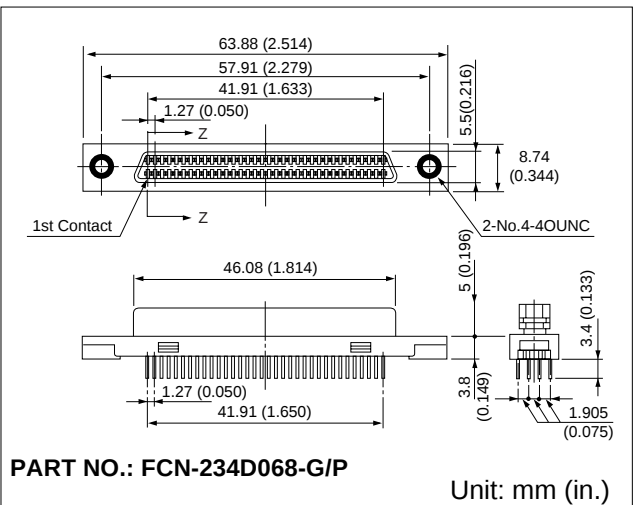
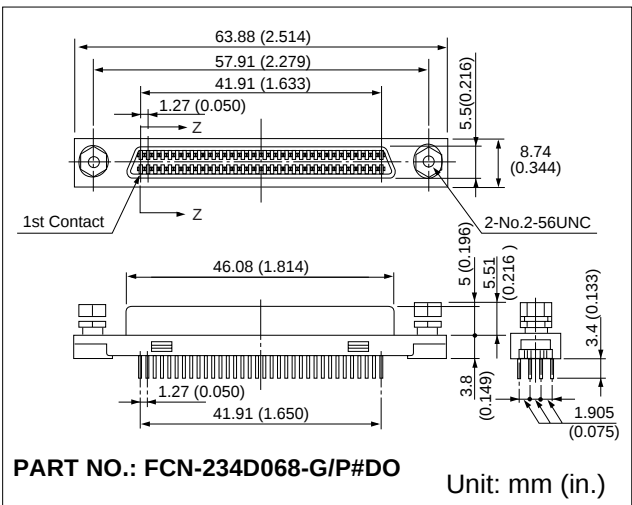
■ PANEL LAYOUT



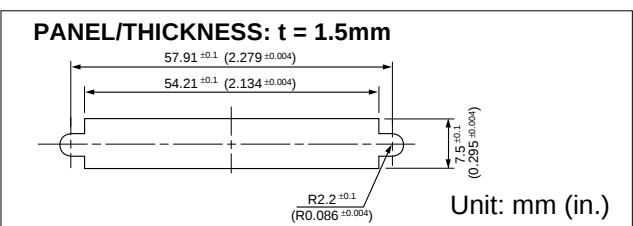
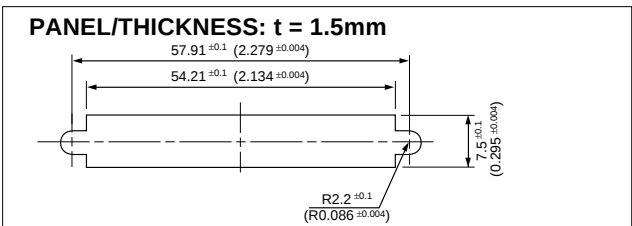
■ MOUNTING HOLE LAYOUT



■ DIMENSIONS



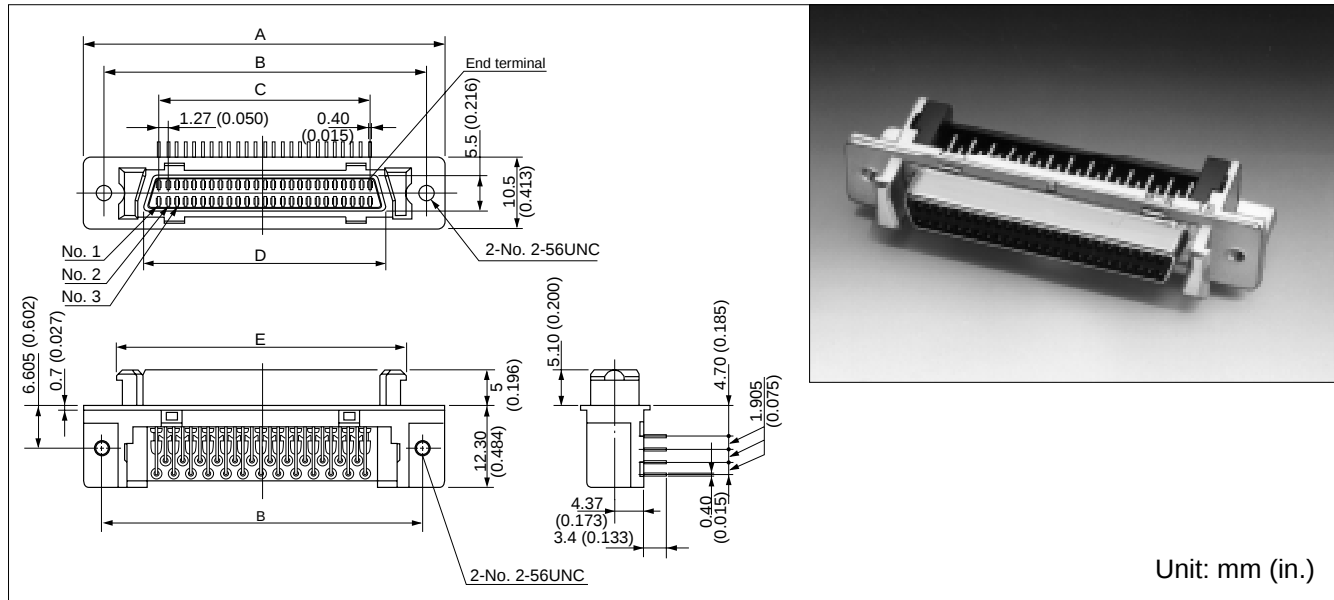
■ PANEL LAYOUT



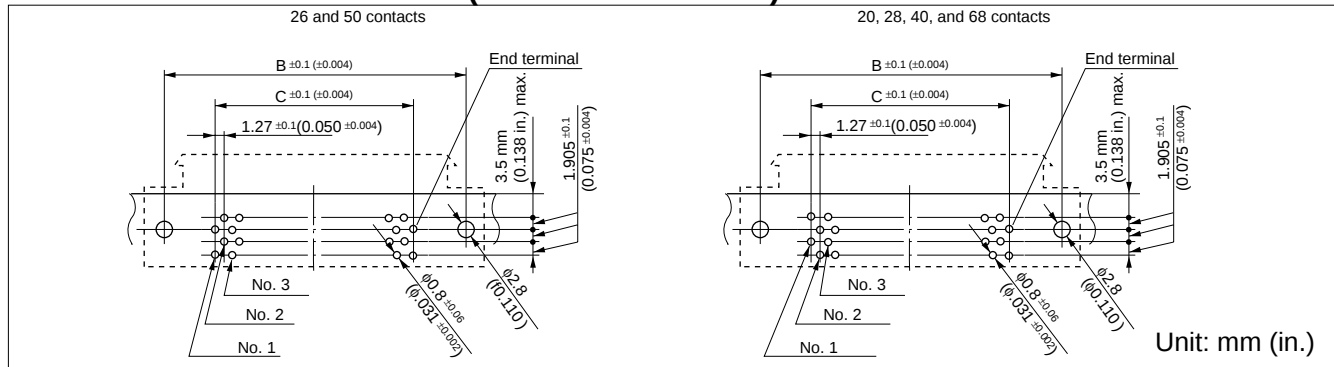
230R Series (Conforms to SCSI)

RIGHT ANGLE SOCKET (SINGLE-OPERATION LOCK TYPE)

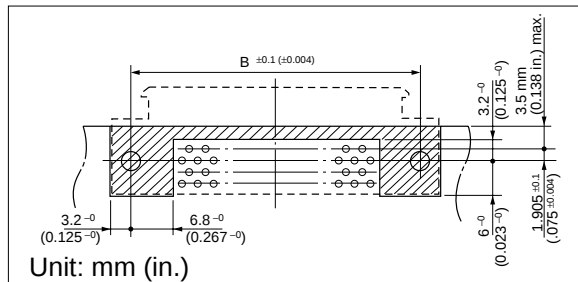
■ DIMENSIONS



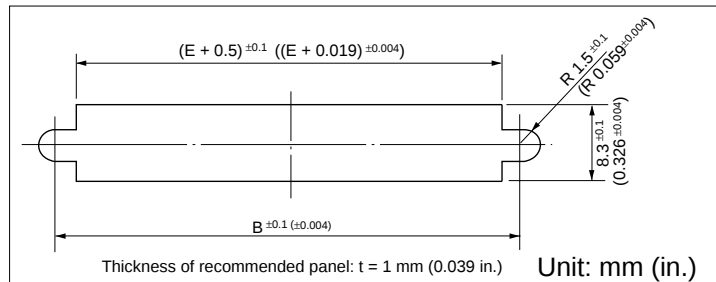
■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)



■ PATTERN INHIBITED AREAS



■ RECOMMENDED PANEL DIMENSIONS



■ 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)

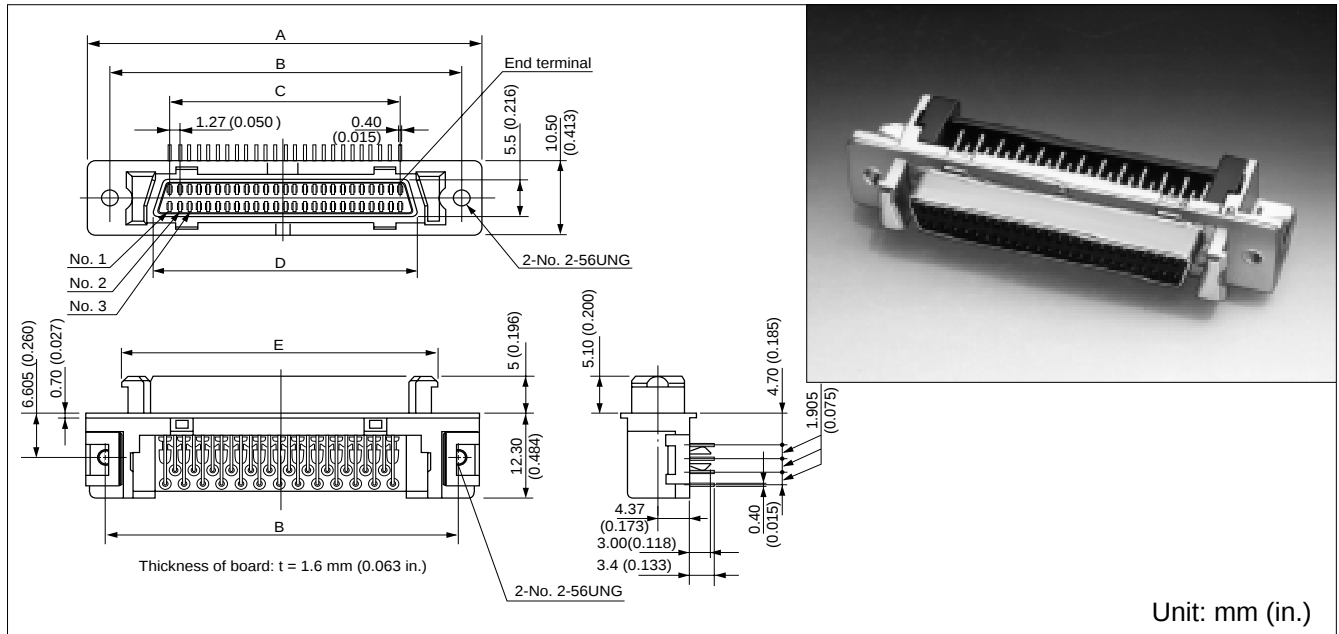
This series includes connectors with M 2.5 threaded inserts for mounting on PC boards and panels. Specify a part number by replacing -G/E at the end with -G/C.

Example: FCN-235D050-G/C

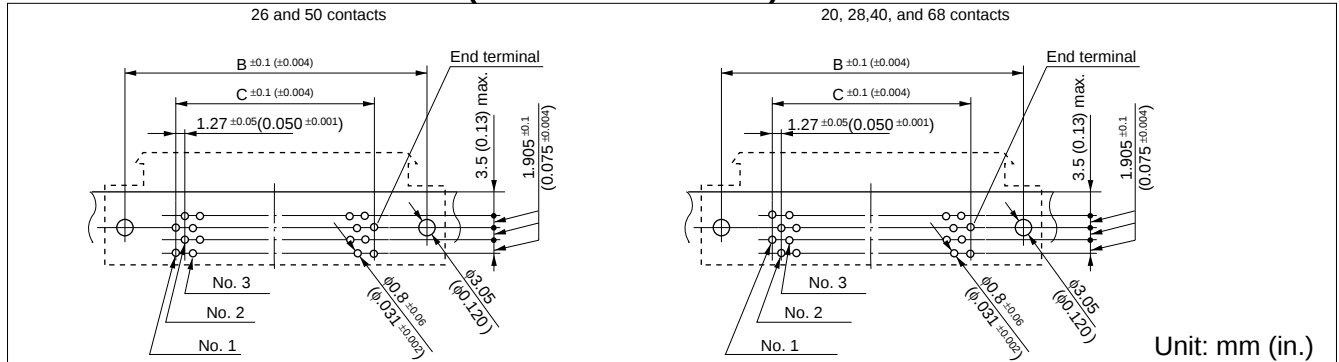
230R Series (Conforms to SCSI)

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

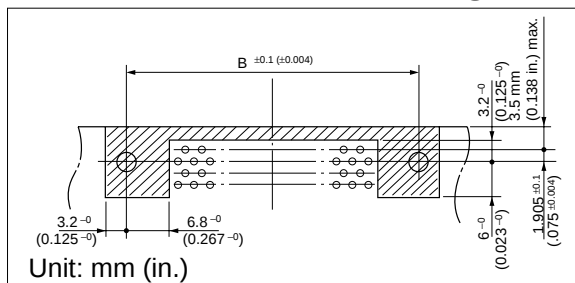
DIMENSIONS



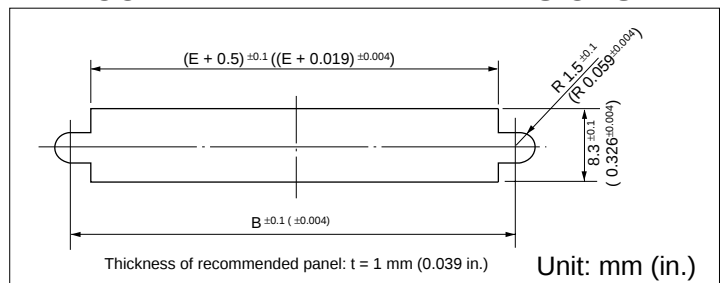
MOUNTING HOLE LAYOUT (COMPONENT SIDE)



PATTERN INHIBITED AREAS



RECOMMENDED PANEL DIMENSIONS



PART NUMBERS AND DIMENSIONS

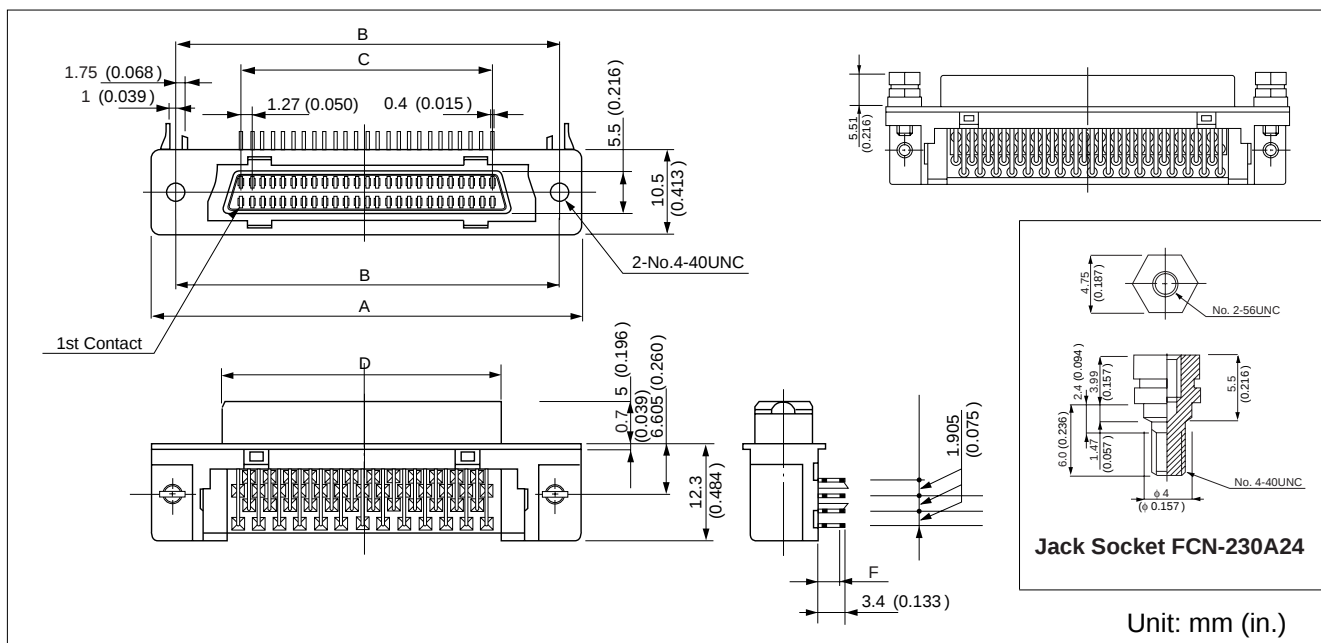
Number of contacts	Part number	Dimensions: mm (in.)				
		A	B	C	D	E
20	FCN-235D020-G/H	33.40 (1.314)	27.43 (1.079)	11.46 (0.451)	15.60 (0.614)	23.24 (0.914)
26	FCN-235D026-G/H	37.21 (1.464)	32.24 (1.269)	15.24 (0.600)	19.41 (0.764)	27.05 (1.064)
28	FCN-235D028-G/H	38.48 (1.514)	32.51 (1.279)	16.51 (0.650)	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

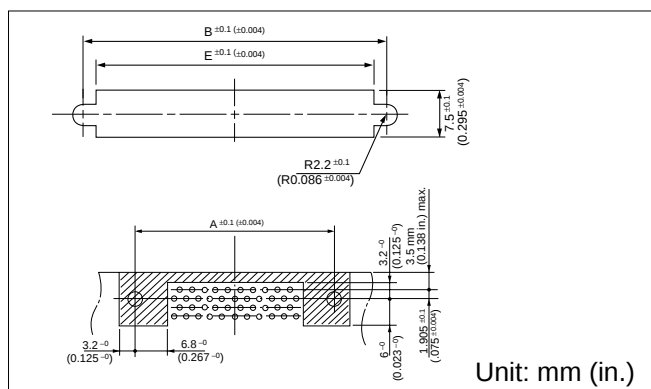
230R Series (Conforms to SCSI)

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

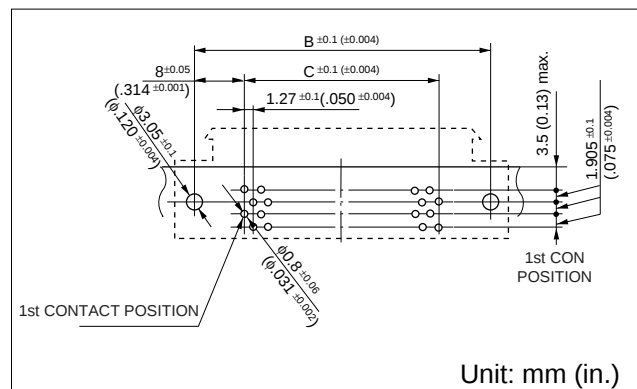
■ DIMENSIONS



■ PANEL LAYOUT



■ PCB LAYOUT



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	—

Specifications
subject to change

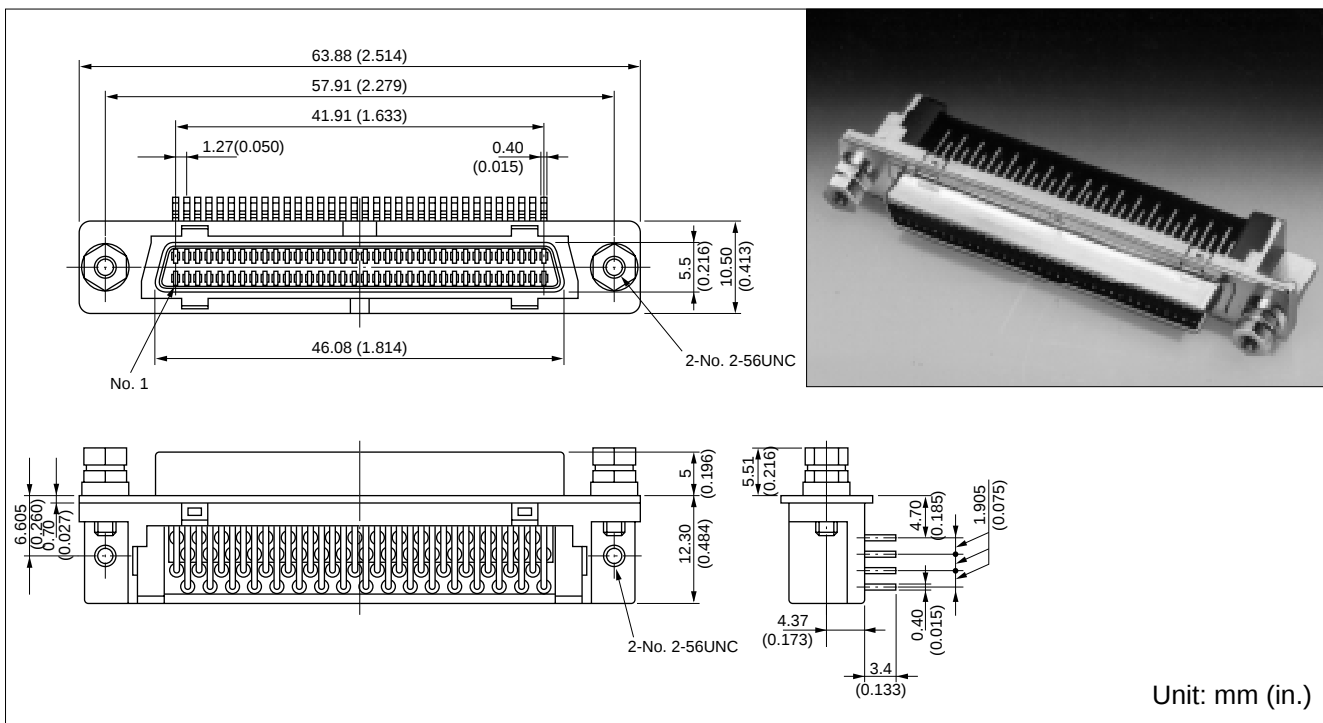
Dimensions are in millimeters (inches)

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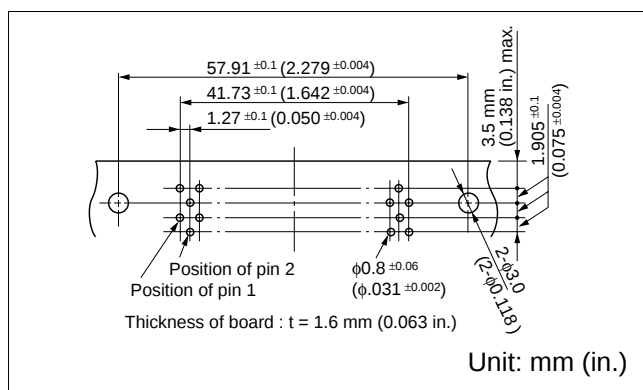
230R Series (Conforms to SCSI)

RIGHT-ANGLE SOCKET (SCREW LOCK TYPE)

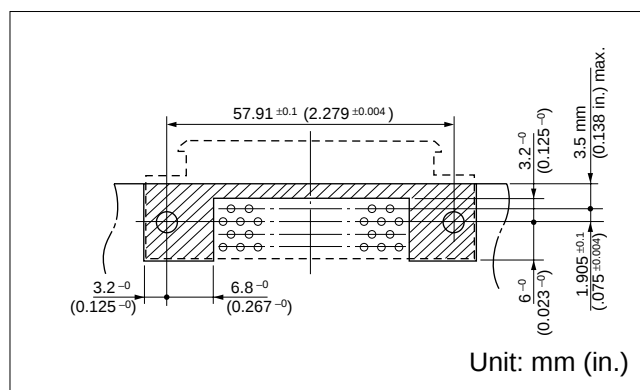
■ DIMENSIONS



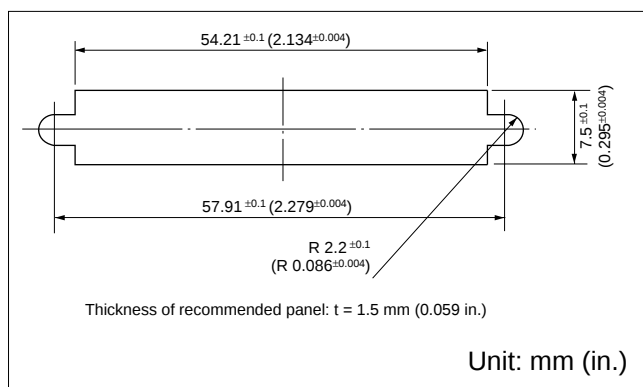
■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)



■ PATTERN INHIBITED AREAS



■ RECOMMENDED PANEL DIMENSIONS

**■ PART NUMBER**

FCN-235D068-G/EA

■ NUMBER OF CONTACTS

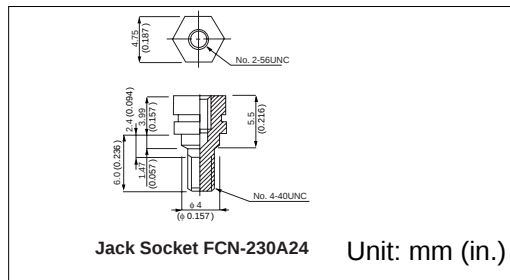
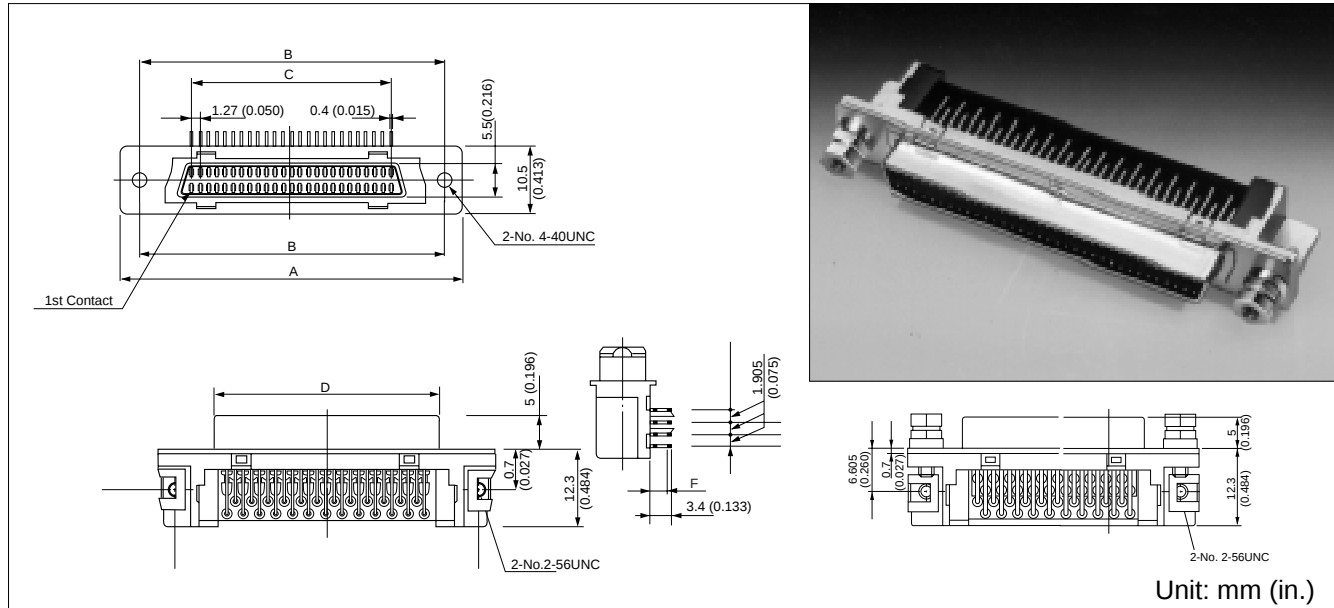
68 contacts

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.

230R Series (Conforms to SCSI)

STRAIGHT SOCKET (SINGLE-OPERATION LOCK TYPE)

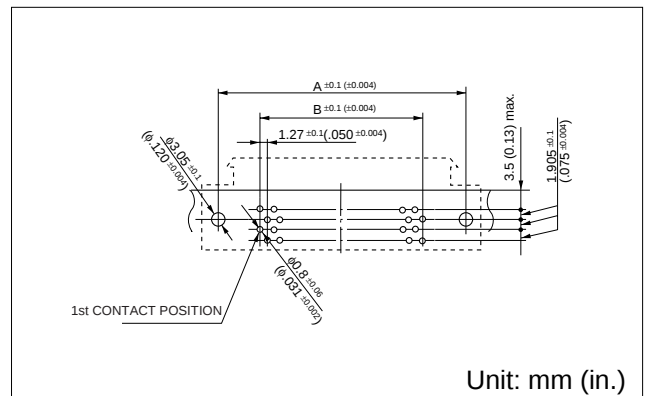
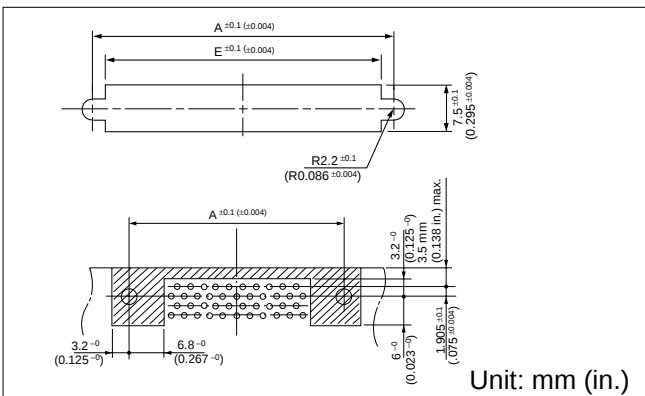
■ DIMENSIONS



■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)

■ PANEL LAYOUT

■ PCB LAYOUT

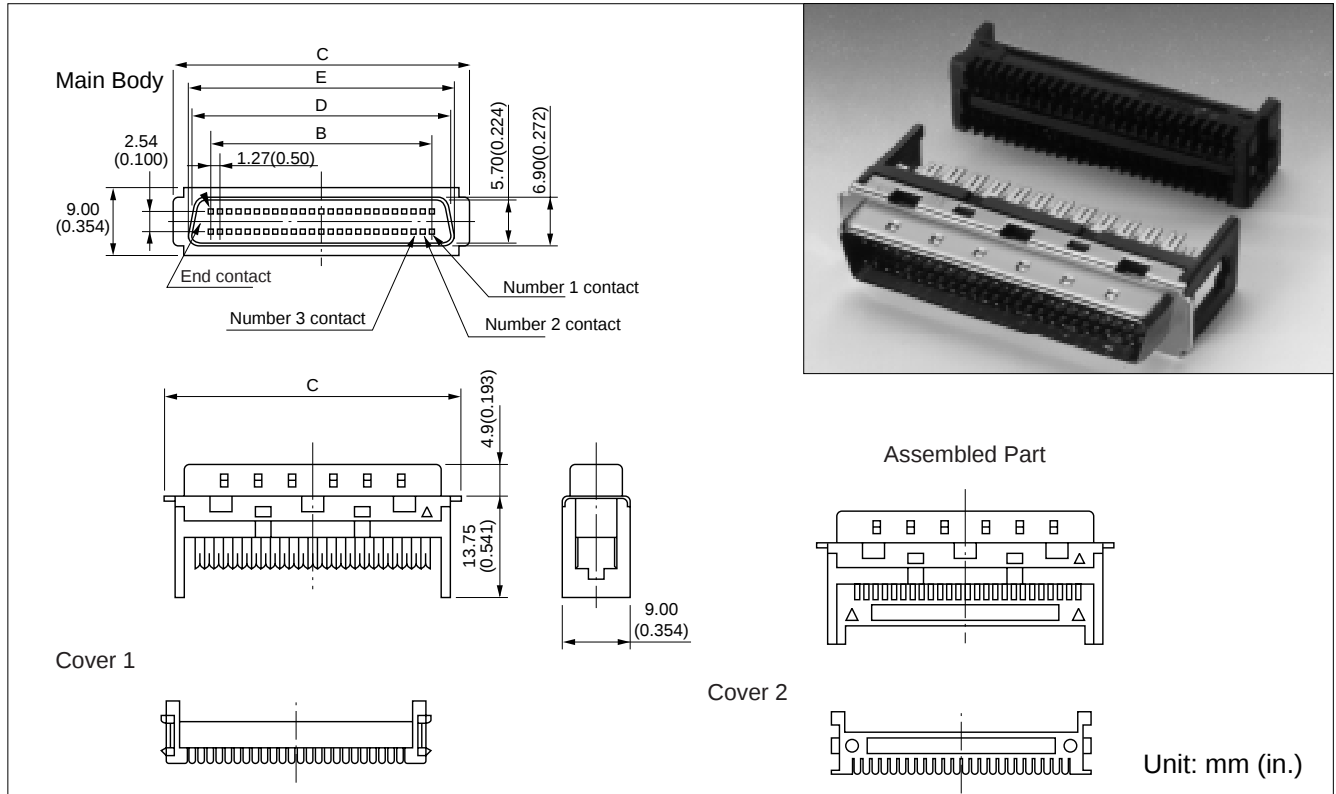


No. of Contacts	PART NUMBER	A	B	C	D	E	F	Jack Sockets
68	FCN-235D068-G/HA	63.88(2.515)	57.91(2.280)	41.91(1.650)	46.08(1.814)	54.21(2.134)	3.40	Yes
68	FCN-235D068-G/HB	63.88(2.515)	57.91(2.280)	41.91(1.650)	46.08(1.814)	54.21(2.134)	3.40	No

230R Series (Conforms to SCSI)

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

■ DIMENSIONS



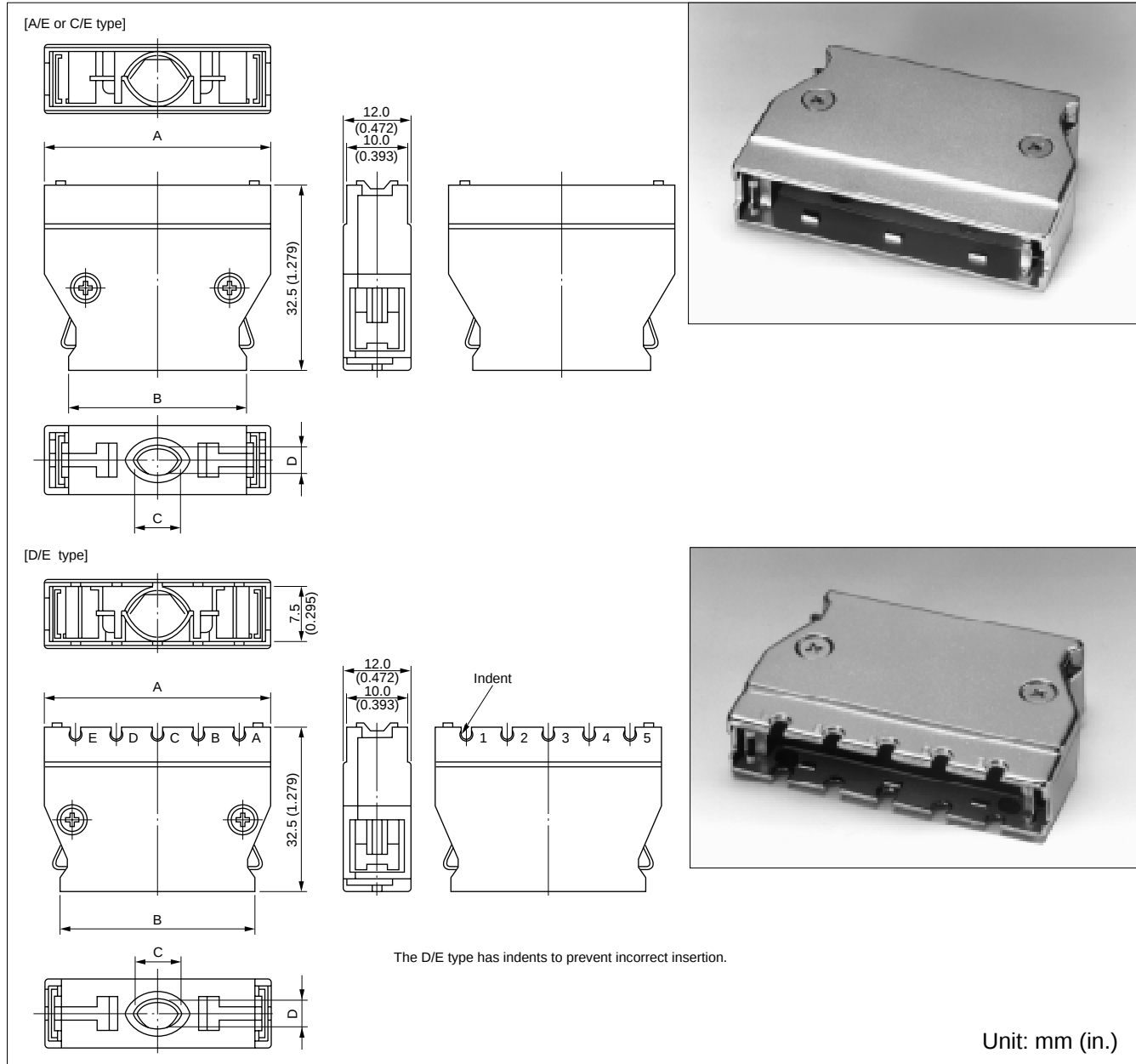
■ PART NUMBERS AND DIMENSIONS

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					

230R Series (Conforms to SCSI)

METAL COVER (ONE-TOUCH LOCK TYPE)

■ DIMENSIONS



■ 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)

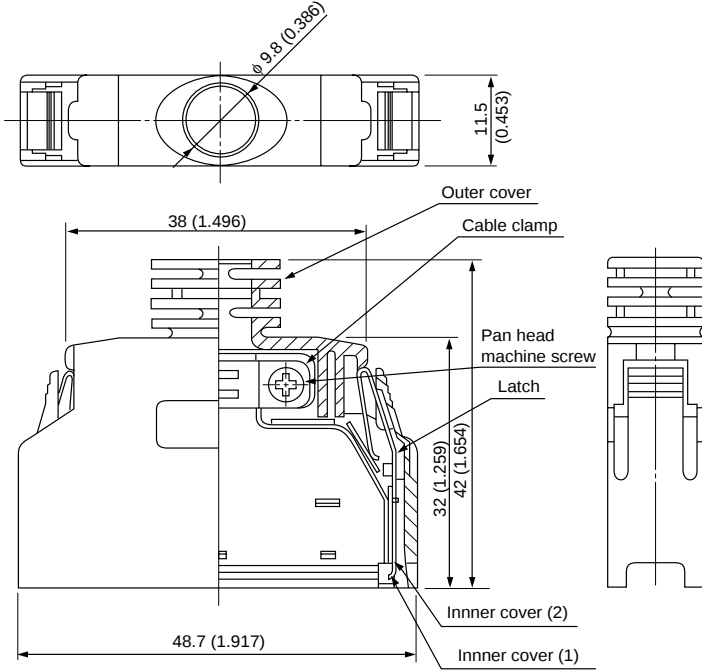
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230R Series (Conforms to SCSI)

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

■ DIMENSIONS

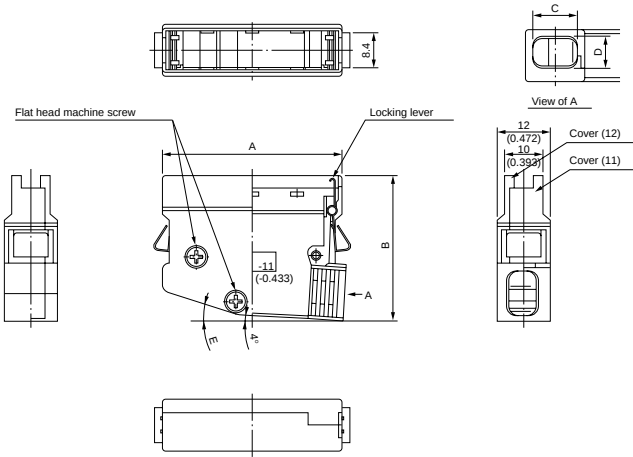
Part Number: FCN-230C050-E/SC



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



Unit: mm (in.)

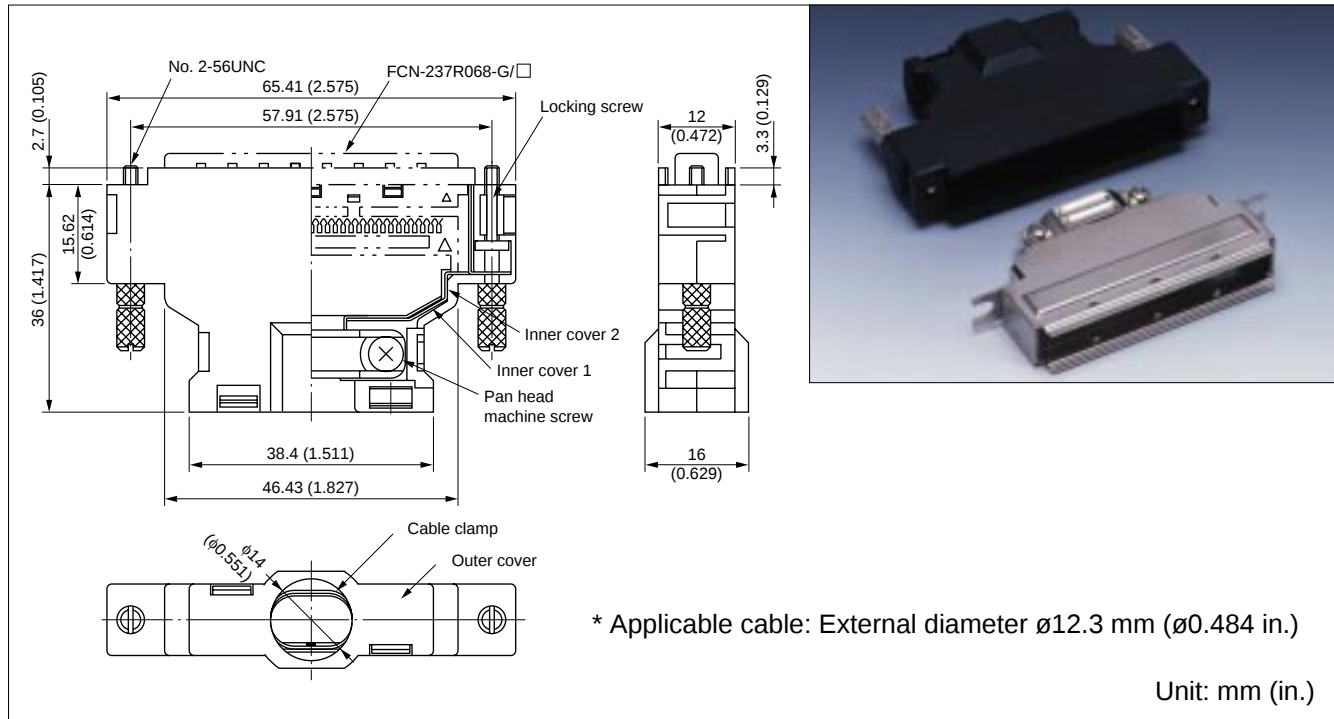
■ PART NUMBERS AND DIMENSIONS

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°

230R Series (Conforms to SCSI)

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

■ DIMENSIONS



■ PART NUMBERS

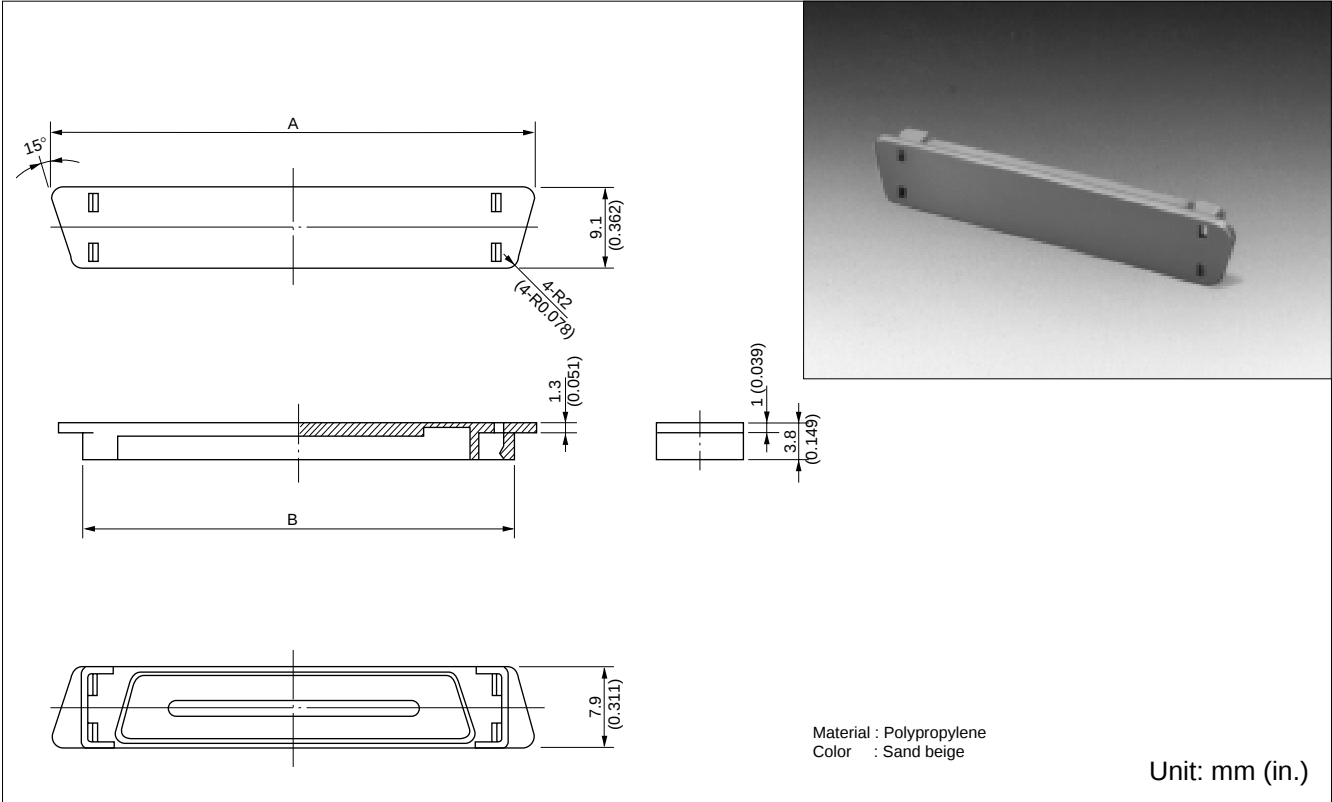
Part number	Applicable Cable
FCN-230C068-E/S	Ø12.3 mm (Ø0.484 in.)
FCN-230C068-E/SA	Ø11.5mm (Ø0.452 in.)

230R Series (Conforms to SCSI)

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

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

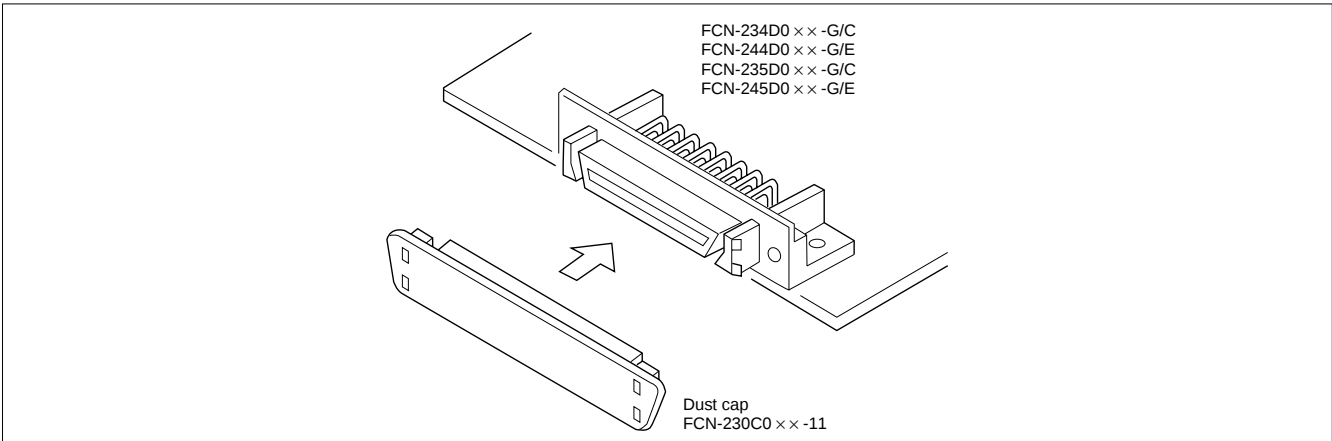
DIMENSIONS



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



230R Series (Conforms to SCSI)

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

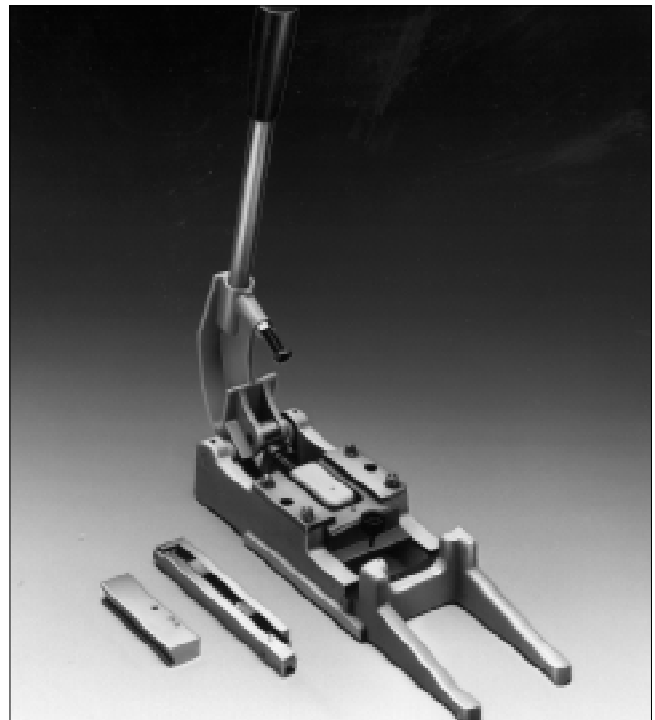
xxx indicates the number of contacts.

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



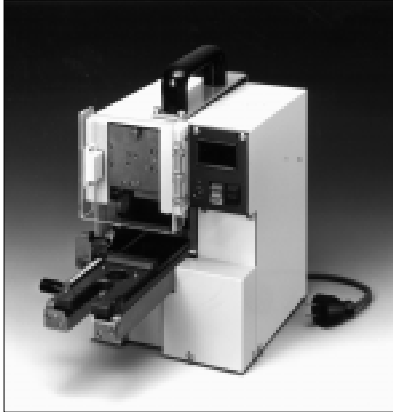
• Cable aligner



• Insulation displacement connection (IDC) tool

230R Series (Conforms to SCSI)

Semi-Automatic Tools Cable Aligning Machine Main Body (FCN-M551-120, FCN-M551-220)



Head (FCN-H550-1/A)



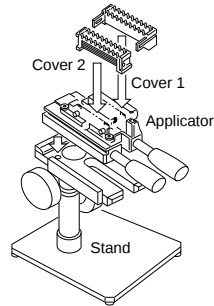
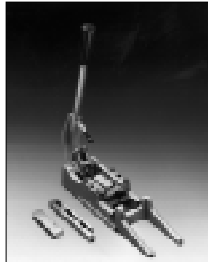
Stand (FCN-D550)



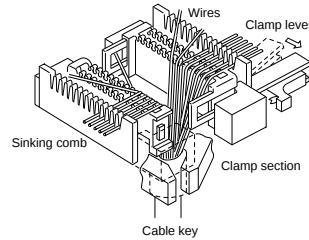
Applicator (FCN-A550-1/A-xxx)



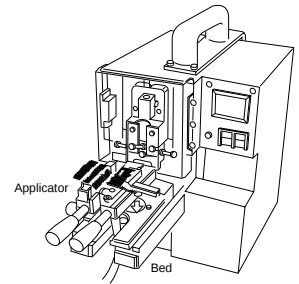
IDC Tool (FCN-237T-T109/H,
FCN-237T-T067/H locator)



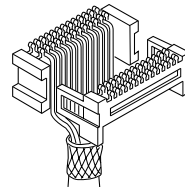
1. Set the applicator on the stand. Set covers 1 and 2 in the applicator.



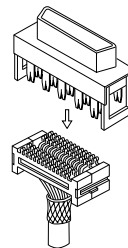
2. Push the wire into the sinking combs.



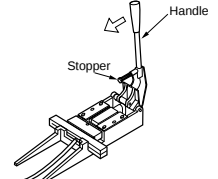
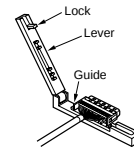
3. Set the applicator onto the installation table and begin cable alignment.



4. Take the covers off the applicator.



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



6. Conduct final assembly 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

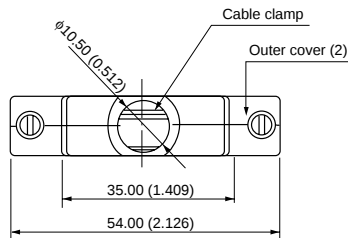
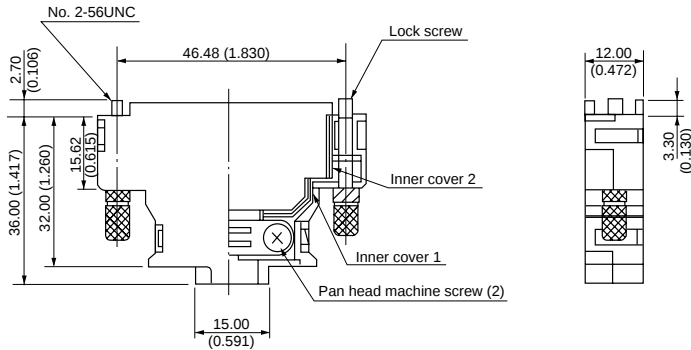
230R Series (Conforms to SCSI)

EMI/ESD RESISTANT COVER

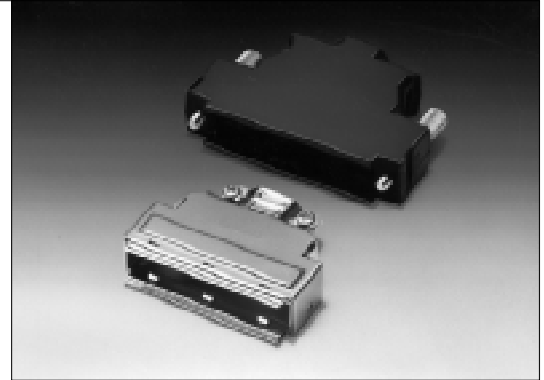
■ DIMENSIONS

Number of contacts: 50 contacts

Part number: FCN-230C050-E/S

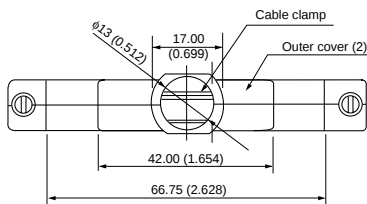
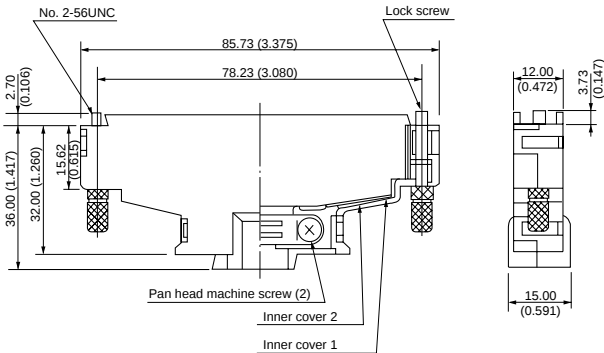


Unit: mm (in.)



Number of contacts: 100 contacts

Part number: FCN-230C100-E/S



Unit: mm ((in.))



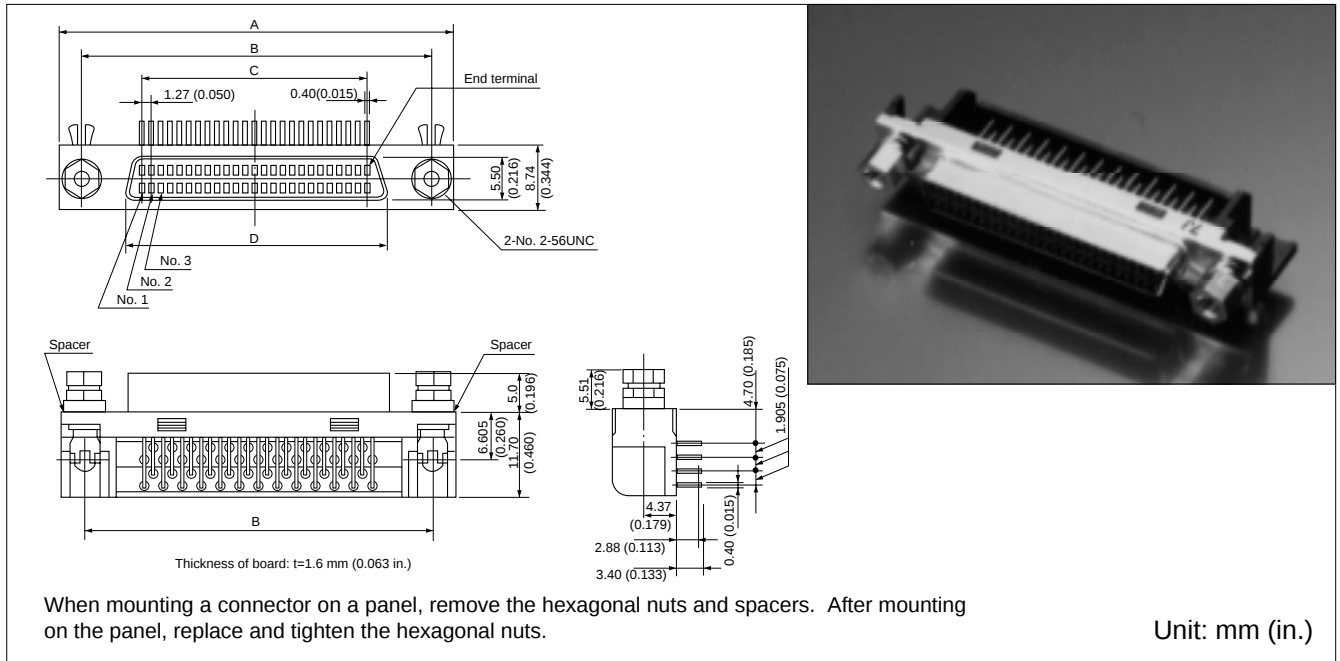
This series includes connectors with No.4-40UNC lock screws. Specify a part number by replacing -E/S at the end with -F/S.

Example: FCN-230C100-F/S

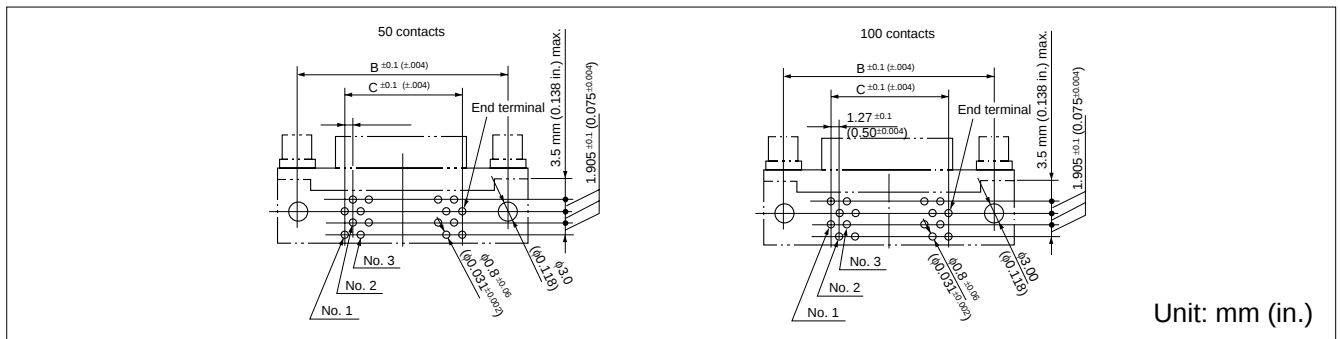
230R Series (Conforms to SCSI)

RIGHT-ANGLE SOCKET WITH HEXAGONAL NUTS FOR BOARD LOCK

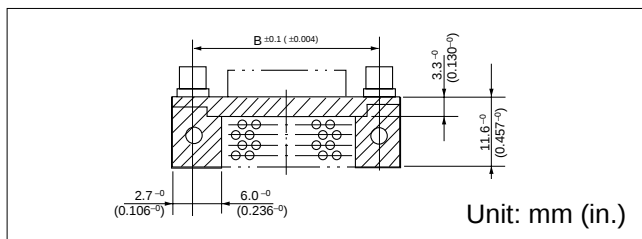
DIMENSIONS



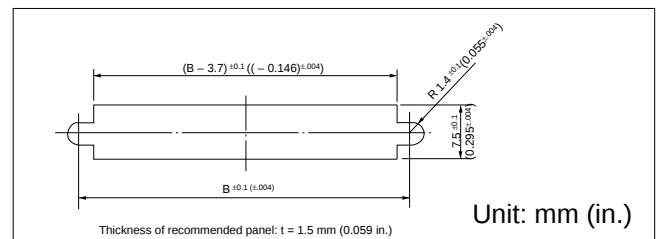
MOUNTING HOLE LAYOUT (COMPONENT SIDE)



PATTERN INHIBITED AREAS



RECOMMENDED PANEL DIMENSIONS



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)

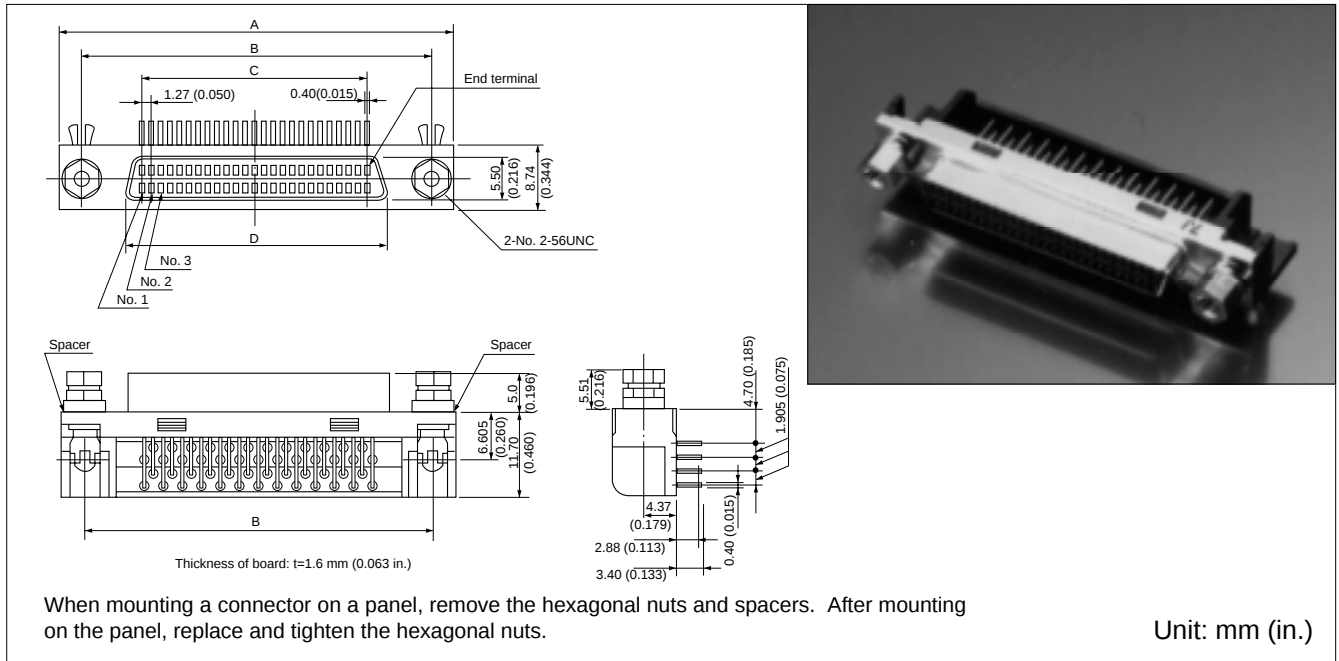
This series includes connectors with No.4-40UNC screws for hexagonal nuts. Specify a part number by replacing #BA at the end with #AA.

Example: FCN-235D100-G/P#AA

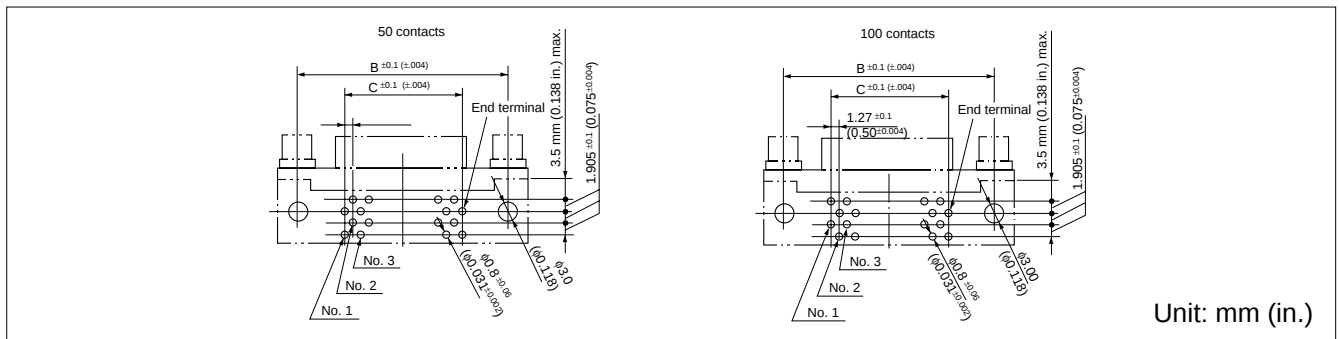
230R Series (Conforms to SCSI)

RIGHT-ANGLE SOCKET WITH HEXAGONAL NUTS FOR BOARD LOCK

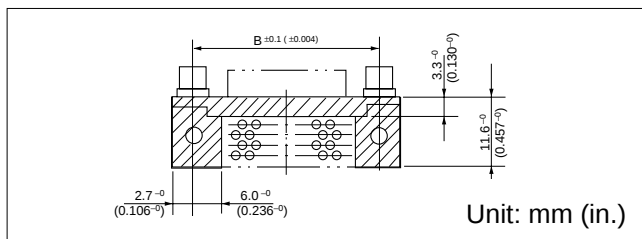
DIMENSIONS



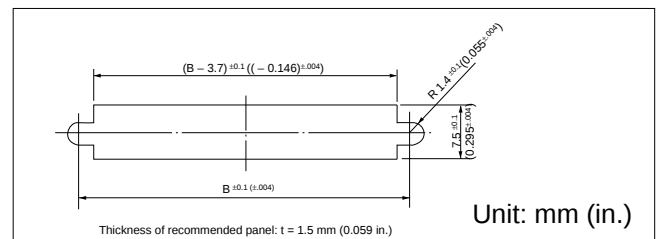
MOUNTING HOLE LAYOUT (COMPONENT SIDE)



PATTERN INHIBITED AREAS



RECOMMENDED PANEL DIMENSIONS



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

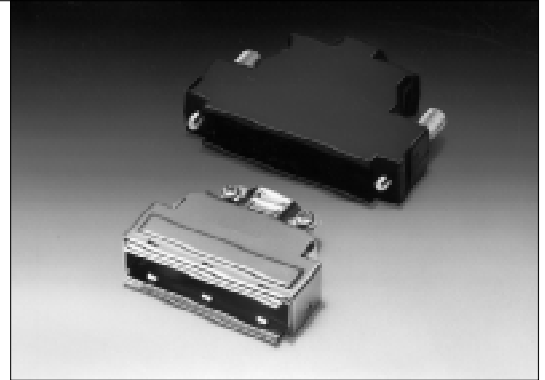
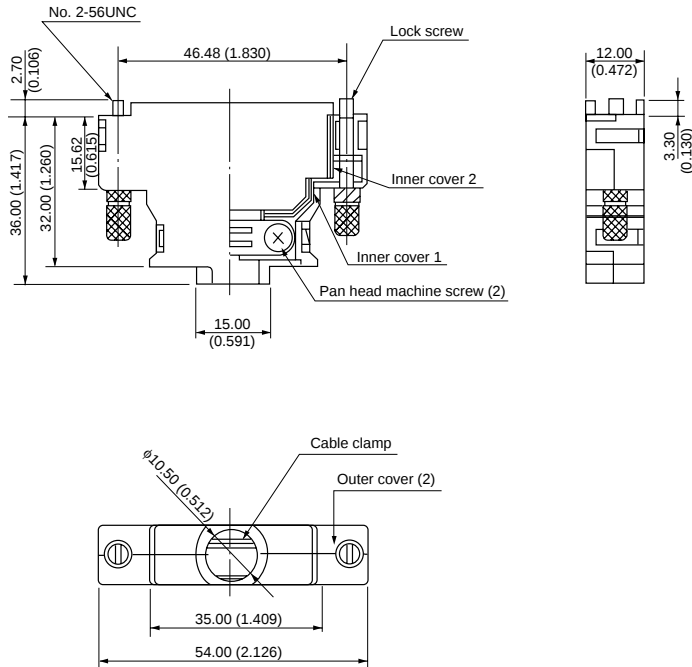
230R Series (Conforms to SCSI)

EMI/ESD RESISTANT COVER

■ DIMENSIONS

Number of contacts: 50 contacts

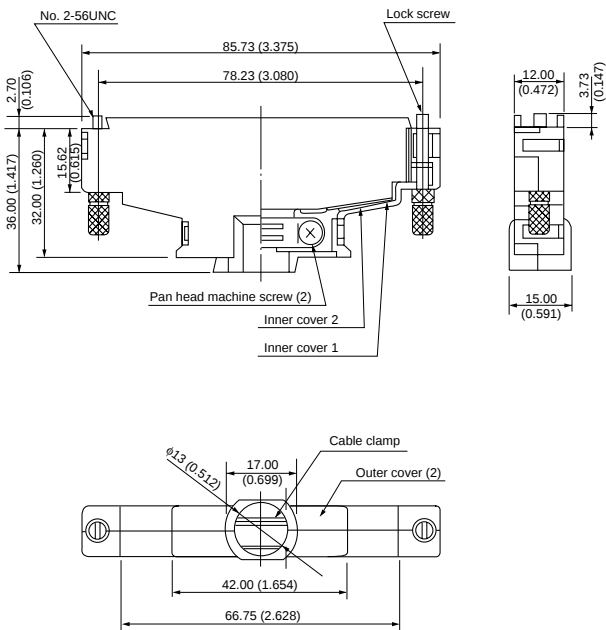
Part number: FCN-230C050-E/S



Unit: mm (in.)

Number of contacts: 100 contacts

Part number: FCN-230C100-E/S



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

230R Series (Conforms to SCSI)

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