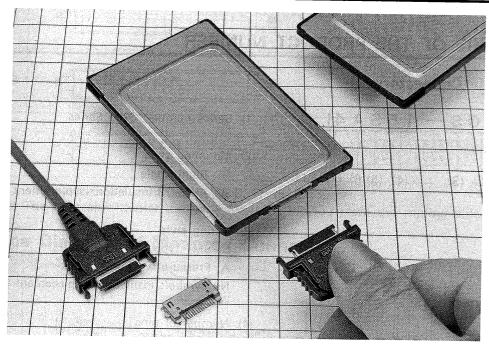
HS 3200 SERIES

15-Pin Connectors for I/O Card Interfaces

GENERAL

The 3200 Series of connectors was developed for use at the interface side of I/O cards and can be used with type I and type II cards.

A frame kit has also been developed as an associated product.



■ FEATURES

- The receptacle connector features a super low profile with a height of 2.9 mm and uses a metal shell; it is both durable and offers complete shielding characteristics. This connector can be mounted on type I and type II cards.
- 2. The five types of incorrect insertion prevention keys prevent misaligned fits.
- 3. The connector has a simple lock which prevents it from becoming disconnected even with some prying. The connector also locks onto the frame so that when there is force exerted on the
- connector, the load is not applied directly to the internal board.
- 4. The board mounting system uses a 0.8 mm pitch SMT system that makes mounting easy.
- 5. The wiring of the plug side can be terminated by insulation displacement or solder.
- 6. The contacts are shaped like half of a tuning fork and provide complete contact even when subjected to twists.

APPLICATIONS

These connectors can be used in applications such as a wide variety of I/O cards (e.g., modem and LAN), portable personal computers, and hand held terminals.

MATERIALS AND FINISH

Main materials used			
	insulator	Synthetic resin	Black*
Receptacle connector	Pins	Copper alloy	Partial gold plating
	Shell	Stainless steel	Solder plating
	Insulator	Synthetic resin	Black*
Plug connectors	Pins	Copper alloy	Partial gold plating
	Shell	Copper alloy	Solder plating
	Cover	Synthetic resin	Back*

*UL94V-0

ELECTRICAL PERFORMANCE

Major Specifications		
Current capacity	500 mA	
Rated voltage	125 V AC	
Insulation resistance	250 MΩ or greater at 100 V DC	
Withstand voltage	300 V AC rms for 1 minute	

■ STRUCTURE OF THE PRODUCT NUMBER

15PA-

(4) (5)(6)

(8)

• Receptacle Connectors

Plug connectors

3230A —

(2) (3)

(1) Series number: 3200 Series

(2) Mounting style10: Right angle

30: AWG 28 insulation displacement type

(3) Wiring style S: SMT type

A: Pressure welding type

No symbol: Insulation displacement type

(4) Number of pins

(5) Type of opening

P: Plug

S: Receptacle

(6) Type of incorrect insertion prevention keys A through E

(7) Height of connector lead at the receptacle side 41: 0.3 mm eccentric from center

(8) Type of cover case at the plug side

C1: Eccentric form type

C2: Center distributed type

● Incorrect Insertion Prevention Keys

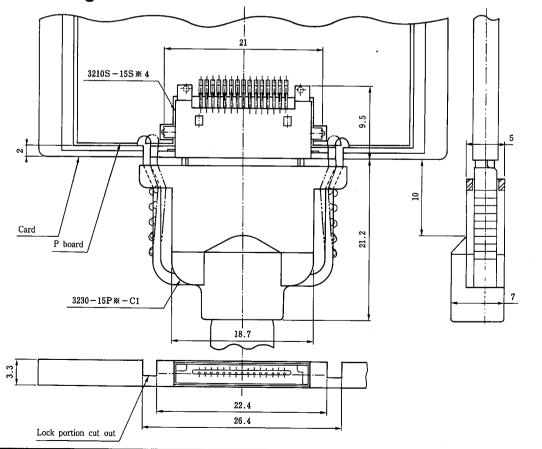
Combination of incorrect insertion prevention keys

	3210S - 15S%41 RECEPTACLE	3230 – 15P% – C1 PLUG
Type A		
Туре В		
Type C		
Type D		
Type E		

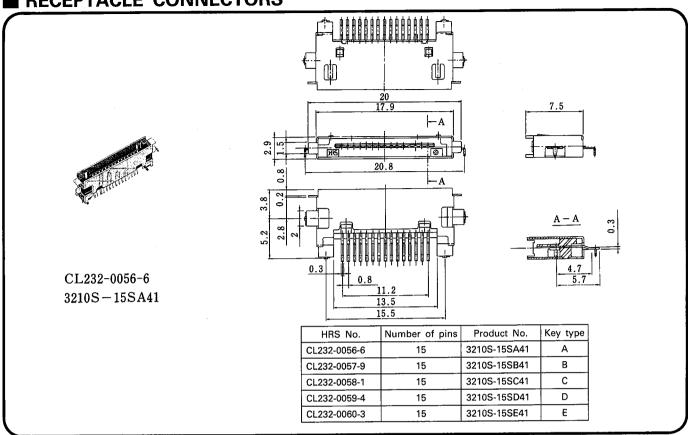
NOTE 1: The asterisk (%) denotes A, B, C, D, or E.

NOTE 2: The diagrams depict the connectors as viewed from the mating side.

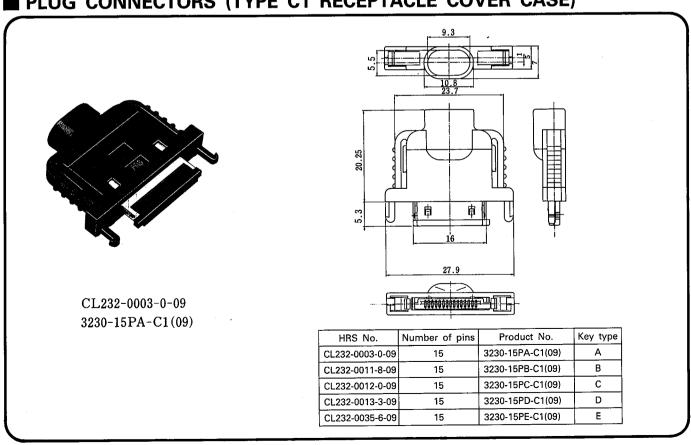
● Reference Diagram of Mounted Connector



RECEPTACLE CONNECTORS



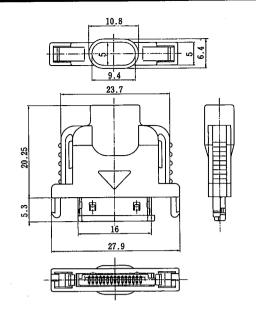
■ PLUG CONNECTORS (TYPE C1 RECEPTACLE COVER CASE)



■ PLUG CONNECTORS (TYPE C2 SYMMETRICAL COVER CASE)

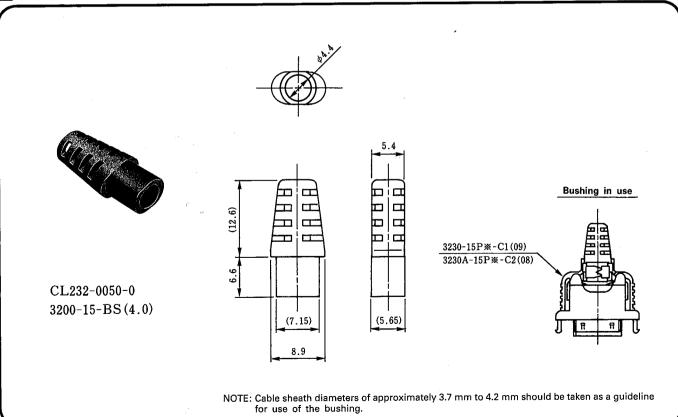


CL232-0030-2-08 3230A-15PA-C2(08)



HRS No.	Number of pins	Product No.	Key type
CL232-0030-2-08	15	3230A-15PA-C2(08)	Α
CL232-0031-5-08	15	3230A-15PB-C2(08)	В
CL232-0032-8-08	15	3230A-15PC-C2(08)	С
CL232-0033-0-08	15	3230A-15PD-C2(08)	D
CL232-0049-0-08	15	3230A-15PE-C2(08)	E

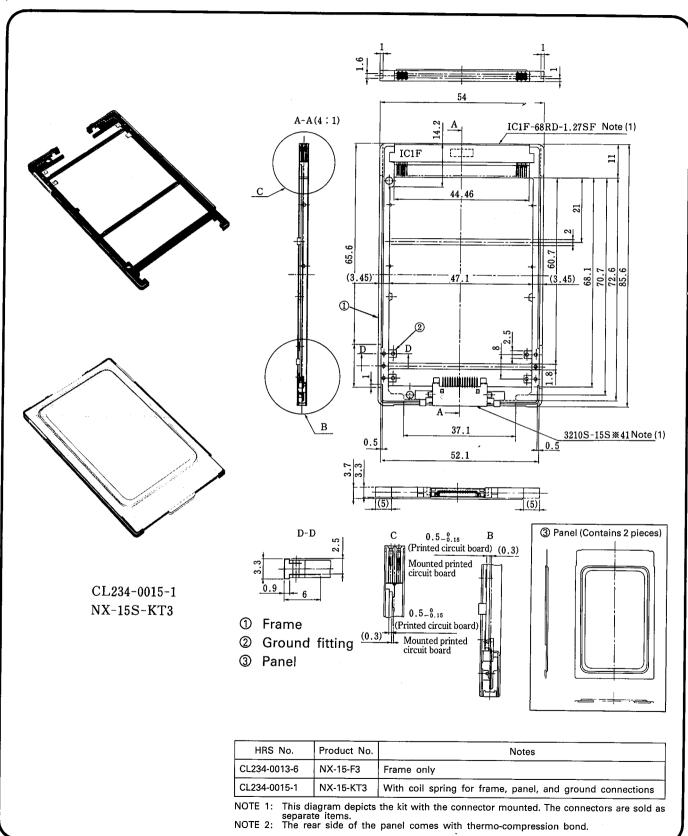
■ BUSHING FOR SMALL DIAMETER CABLE



FRAME KIT FOR I/O CARDS

This frame kit has been developed for use with I/O cards and is equivalent to type II in accordance with JEIDA Ver. 4.1 and PCMCIA 2.01.

A back connector (3210S-15S*4) can be mounted to the rear portion of the card and an FG connector is also provided.



Applications for Connections of I/O Card Connectors

■ MODULAR PLUGS FOR ROUND CABLE (SUIT AWG #28)



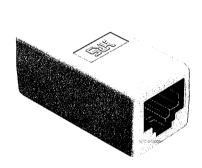
6 Pins



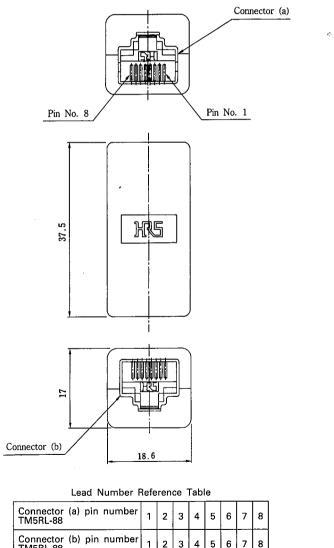
8 Pins

HRS No.	Number of pins	Product No.
CL222-2684-2	6	TM30P-66P
CL222-2685-5	8	TM30P-88P

8-PIN ADAPTER



CL222-3798-7 TM5RL-88-JJ



● Suitable Cable

The connector at the plug side is of insulation displacement construction and the following types of cable are provided as a guideline.

Connector name	Conductors	Sheath
3230-15P※-C1	Outside diameter of insulation: 0.58 to 0.68 mm AWG 28	5.5 × 9.3 or smaller
3230A-15P%-C2	Outside diameter of insulation: 0.58 to 0.68 mm AWG 28	5 × 9.4 or smaller

Connector name	Process	Tool name	
0000 4FPW 04/00\	Manual wire arranging	3230-15SP (Wire arranging pallet) 3230-15CAT (Wire arranging jig)	
3230-15P*-C1(09) 3230A-15P*-C2(08)	Pressure welding disconnection	32	30-15GP1
	Clamp	3230-15CCT	Hi-Flex wiring press HHP-502