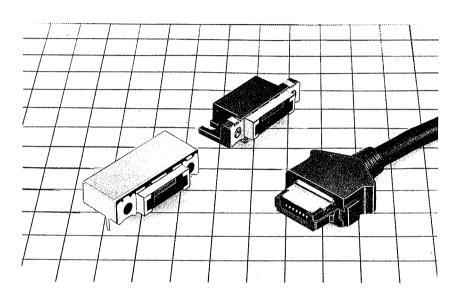
# 3100 SERIES LOW PROFILE CONNECTOR FOR PREVENTING EMI

#### General

The 3100 series low profile I/O connectors for preventing EMI are perfect for today's compact electronic equipment.

Available in 6, 8, 12, 14 and 16 pins.



#### **Features**

- (1) The metal shell guide structure for the receptacle connector reduces drastically the height for the substrate to 7mm.
- (2) The metal shell with a molded cover case is designed to shield it from electrostatic discharge (ESD).
- (3) The cantilever profile of the female contact ensures effortless coupling and long service life.
- (4) The effective engagement length is of sequence structure and sufficient to allow the shielded part to engage first when connecting.
- (5) The cable can be terminated efficiently just by crimping with a jig after passing the cable through the guide plate hole.
- (6) Cables AWG 26 to AGW 30 are applicable by partially changing the guide plate since the male cnnoector adopts a U-slit type connection.
- (7) The side latching method of the molded cover assures easy locking of the plug connector.

#### **Application**

Office Automation, Communications, Home Automation and Other equipment.

## **Specification**

Specif	ication
Current capacity	0.5A
Rated Voltage	AC 125V
Insulation Resistance	Min. 250MΩ at DC 100V
Contact Resistance	Max. 35mΩ at DC 1mA
Withstanding Voltage	AC 300Vr.m.s for 1 minute

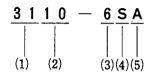
Relation betwee	en gulde plate and	applicable coating	O.D.
Hole dia (mm) of Wire Configuration Guide Plate	ф 0.65	ф 0.85	ф 1
Applicable Cable Cut dia (mm)	ф 0.57∼ ф 0.63	ф 0.75 <b>~</b> ф 0.83	ф 0.88∼ ф 0.98

## Material & Finish

		Material Finish	
	Insulation	PBT resin	Black UL94V-0
Receptacle	Contact	Brass	Selective gold plating
	Shell	Brass	Solder plating
	Insulation	Dolygorhaneta Davis	White for AWG #28
	Ilisulation	Polycarbonate Resin	Black for AWG #30
Plug	Contact	Brass	Selective gold plating
G	Guide Plate	Polycarbonate resin	Transparent
	Shell	Brass	Solder plating
	Cover	Polycarbonate resin	

#### **Ordering Information**

#### Receptacle

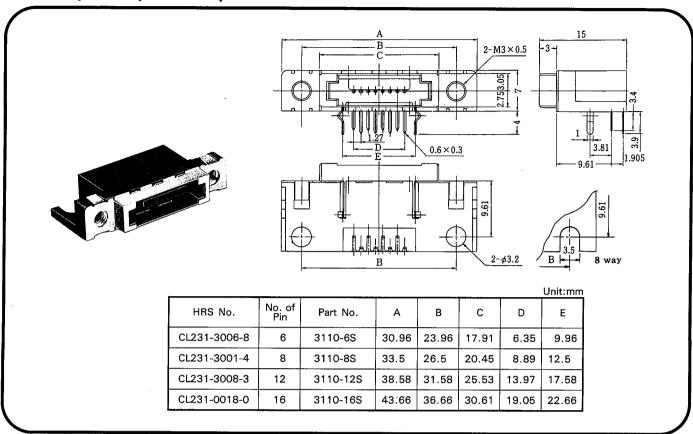


### Plug

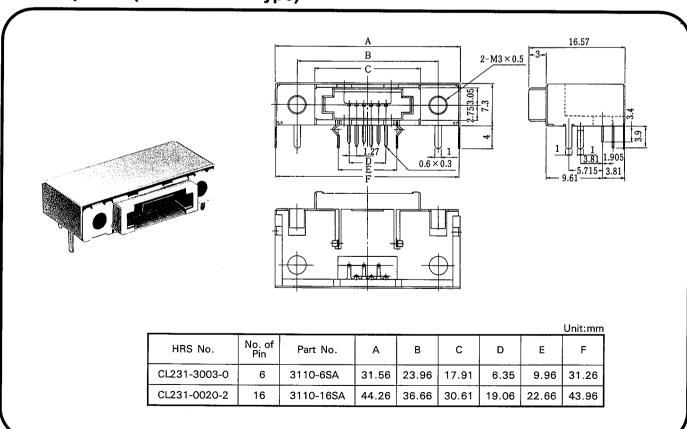
$$\frac{3 \ 1}{\begin{vmatrix} 1 \\ 1 \end{vmatrix}} \frac{3 \ 0}{\begin{vmatrix} 1 \\ 1 \end{vmatrix}} \frac{A}{\begin{vmatrix} 1 \\ 1 \end{vmatrix}} - \frac{6 \ P A}{\begin{vmatrix} 1 \\ 1 \end{vmatrix}} - \frac{C}{\begin{vmatrix} 1 \\ 1 \end{vmatrix}}$$
(1) (2) (3) (4)(5)(6) (7)

- (1) Series Number: 31
- (2) Type 10: Right Angle Dip
- (3) No. of Pins: 6, 8, 12, 14, 16
- (4) Type of opening S: Receptacle
- (5) Additional Function Blank: Standard
  - A: All Shield Type
- (1) Series Number: 31
- (2) Type 30: AWG28, 26 IDC 31: AWG30, IDC
- (3) Hole dia. of Wire Configuration Tube Plate Black: ∮ 1.0 (∮ 0.88∼ ∮ 0.98)
  - A: φ 0.85( φ 0.75~ φ 0.83)
- (4) No. of Pins: 6, 8, 12, 14, 16
- (5) Type of opening P: Plug
- (6) Cover Type
  Blank: Straight Cable Exit
  - A: Side Cable Exit
- (7) Cover
  - C: Standard

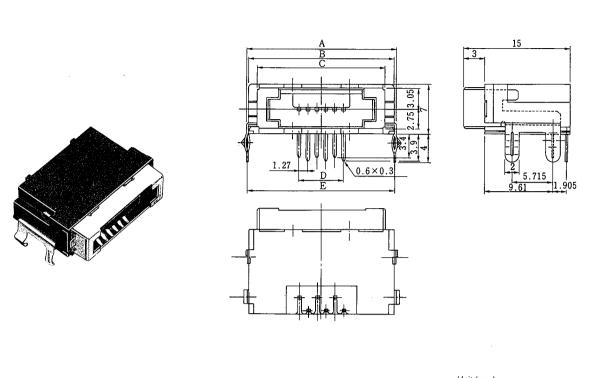
#### Receptacle (Standard)



# Receptacle (All Shielded Type)

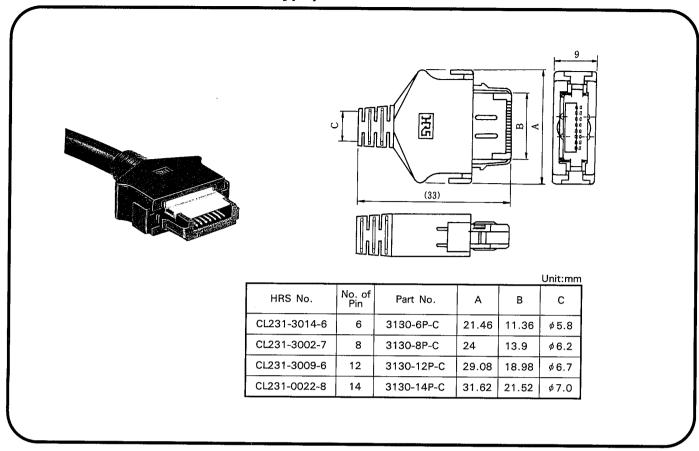


# Receptacle (Without Mounting Hole Type)

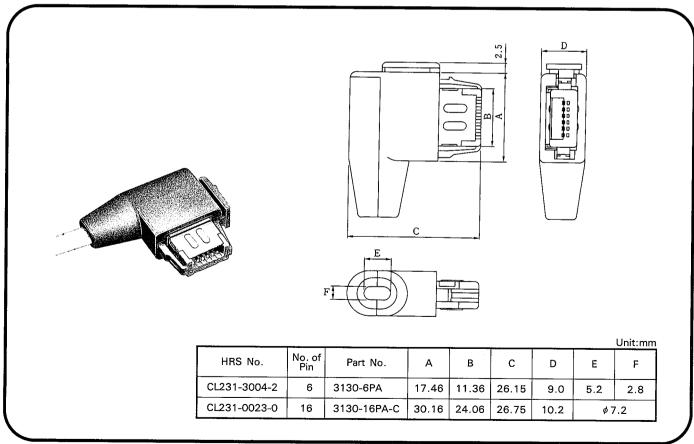


							Unit (mm)
HRS No.	No. of pin	Parts No.	А	В	С	D	E
CL231-3017-4	6	3110-6SB	20.86	20.26	17.91	6.35	20.56
CL231-0021-5	14	3110-14SB	31.02	30.42	28.07	16.51	30.72

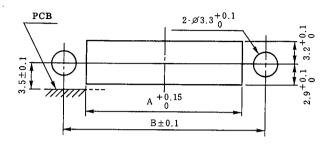
# Plug (Straight Cable Exit Type)



## Plug (Side Cable Exit Type)

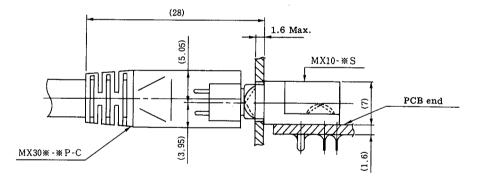


## Panel Cutout (Thickness of Panel: Max.1.6mm)



				Unit: mm
HRS No.	No. of Pin	Part No.	А	В
CL231-3006-8	6	3110- 6S	18.06	23.96
CL231-3001-4	8	3110- 8S	20.6	26.5
CL231-3008-3	12	3110-12S	25.68	31.58
CL231-0018-0	16	3110-16S	30.76	36.66
CL231-0021-5	14	3110-14SB	28.22	

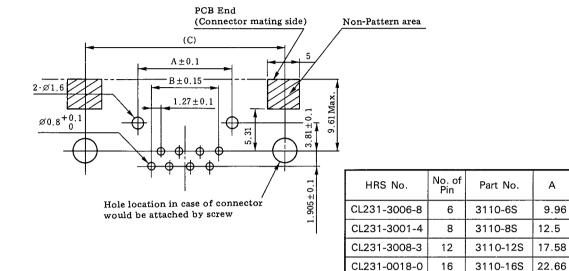
## **Coupling Status**



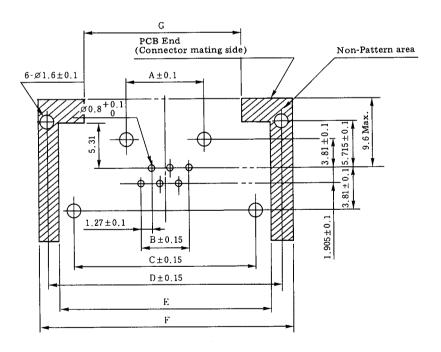
Note: Screw for Panel: M3 x 0.5 length 6 mm.

#### **Backboard Pattern**

## (Standard)



### (All Shielded Type)



Unit:mm

С

23.96

26.5

31.58

19.05 36.66

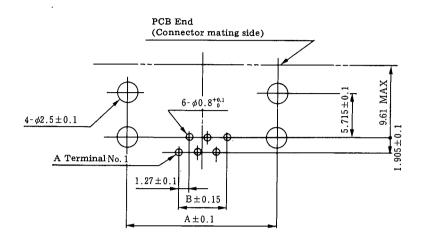
6.35

8.39

13.97

									Jnit:mm
HRS No.	No. of Pin	Part No.	А	В	С	D	Е	F	G
CL231-3003-0	6	3110-6SA	9.96	6.35	23.96	31.26	27.56	31.96	18.96
CL231-0020-2	16	3110-16SA	22.66	19.05	36.66	43.96	40.26	44.66	31.66

# (Without Mounting Hole Type)



			ļ	<u>Jnit:mm</u>
HRS No.	No. of Pin	Part No.	А	В
CL231-3017-4	6	3110-6SB	20.56	6.35
CL231-0021-5	14	3110-14SB	30.72	16.51

## **Connecting Method**

Specification	Procedure	Specification
Peel the shielded braid and terminate treatment.	4. IDC	Insert the guide plate into the plug temporarily and press it.
(5) Molded cover		Pre-Insertion
Copper tape		IDC
Configure the cable conductor to the corresponding guide plate.	5. Covering and clamping	Cover the ground plate B and fasten the cable by clamping.
Hole dia, indication		Clamp
Cut the remaining part of the wire and clamp the cable conductor.	6. Covering	
Crimped connection		
	Peel the shielded braid and terminate treatment.  Copper tape  Copper	Peel the shielded braid and terminate treatment.  4. IDC  Configure the cable conductor to the corresponding guide plate.  5. Covering and clamping  Cut the remaining part of the wire and clamp the cable conductor.  6. Covering

### **Tooling**

## (Straight Cable Exit Type)

Connector	. Process	Tool Name		
3130-6P-C	Wire clamp Remaining part of cable cut		3130-6CT	
	Crimping, Clamp	Hi-Flex Connecting press (CL550–0082–2)	3130—6GP	
3130-8P-C	Wire clamp Remaining part of cable cut		3130—8CT	
	Crimping, Clamp		3130-8GP	
313012PC	Wire clamp Remaining part of cable cut		3130-12CT	
	Crimping, Clamp		3130—12GP	
3130-14P-C	Wire clamp Remaining part of cable cut		3130-14CT	
	Crimping, Clamp		3130—14GP	

# (Side Cable Exit Type)

Connector	Process	Tool Name		
3130—6PA	Wire clamp Remaining part of cable cut		3130-6CT-A	
3130-01 A	Crimping, Clamp	Hi-Flex	31306GPA	
3130—16PA—C	Wire clamp Remaining part of cable cut	Connecting press (CL550—0082—2)	3130-16CT-A	
3130-10FA-C	6PA—C Crimping, Clamp	3130—16GP—A		

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