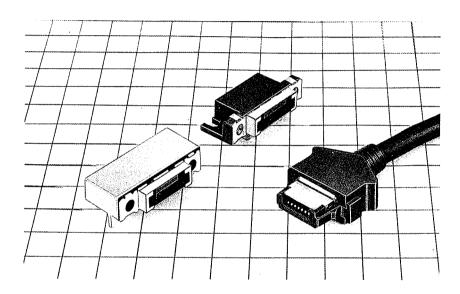
# 3100 SERIES LOW PROFILE CONNECTOR FOR PREVENTING EMI

#### 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 ennoector 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 guide 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

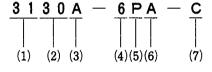
## Material & Finish

		Material Finish	
	Insulation	PBT resin	Black UL94V-0
Receptacle	Contact	Brass	Selective gold plating
Shell	Shell	Brass	Solder plating
	Insulation	D-1	White for AWG #28
		Polycarbonate Resin	Black for AWG #30
Plug	Contact	Brass	Selective gold plating
	Guide Plate	Polycarbonate resin	Transparent
	Shell	Brass	Solder plating
	Cover	Polycarbonate resin	

#### **Ordering Information**

#### Receptacle

# Plug



- (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)

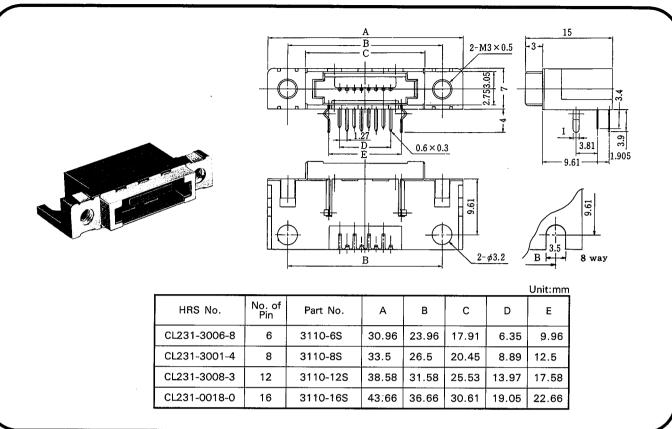
A: φ 0.85( φ 0.75~ φ 0.83)

B:  $\phi 0.65 (\phi 0.57 \sim \phi 0.63)$ 

- (4) No. of Pins: 6, 8, 12, 14, 16
- (5) Type of opening P: Plug
- (6) Cover TypeBlank: Straight Cable ExitA: Side Cable Exit
- (7) Cover

C: Standard

### Receptacle (Standard)



### Receptacle (All Shielded Type)

CL231-3003-0

CL231-0020-2

6

16

3110-6SA

3110-16SA

31.56

44.26

23.96

36.66

17.91

30.61

6.35

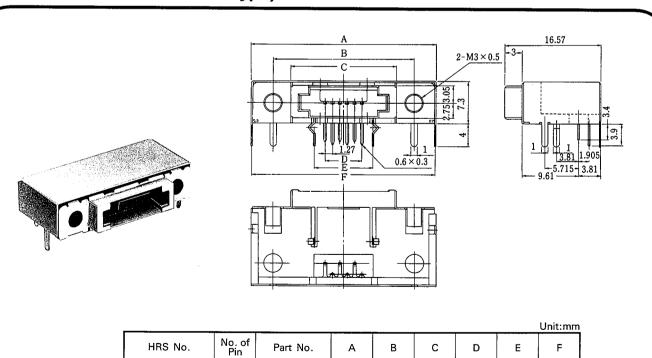
19.06

9.96

22.66

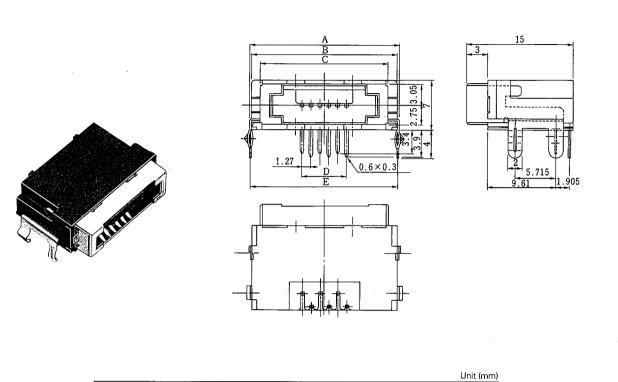
31.26

43.96

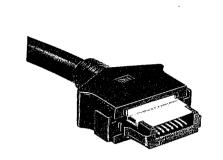


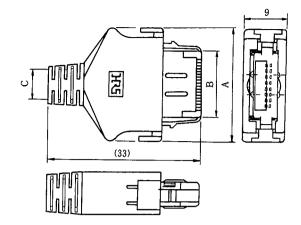
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# Receptacle (Without Mounting Hole Type)



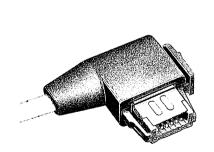
## Plug (Straight Cable Exit Type)

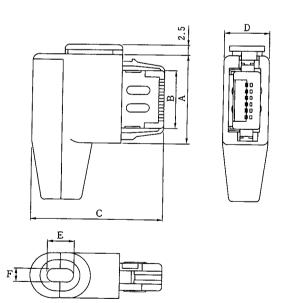




					Unit:mm
HRS No.	No. of Pin	Part No.	А	В	С
CL231-3014-6	6	3130-6P-C	21.46	11.36	ø 5.8
CL231-3002-7	8	3130-8P-C	24	13.9	ø6.2
CL231-3009-6	12	3130-12P-C	29.08	18.98	ø6.7
CL231-0022-8	14	3130-14P-C	31.62	21.52	φ7.0

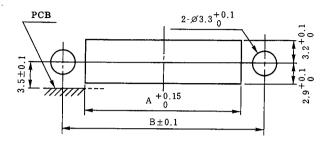
# Plug (Side Cable Exit Type)





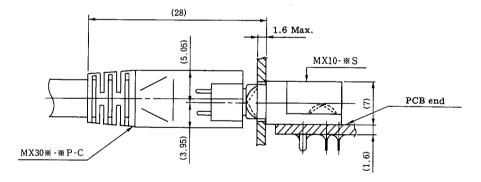
								Unit:mm
HRS No.	No. of Pin	Part No.	A	В	С	D	E	F
CL231-3004-2	6	3130-6PA	17.46	11.36	26.15	9.0	5.2	2.8
CL231-0023-0	16	3130-16PA-C	30.16	24.06	26.75	10.2	φ	7.2

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



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

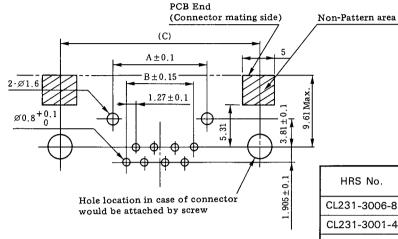
#### **Coupling Status**



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

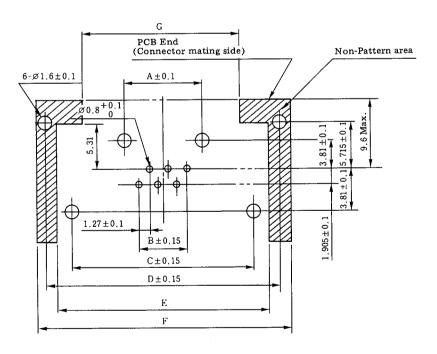
#### **Backboard Pattern**

### (Standard)



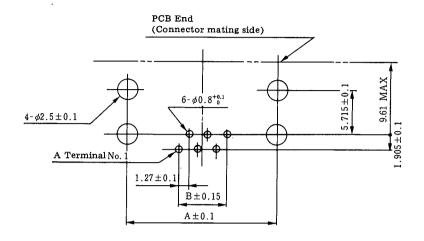
Unit:mm No. of Pin С HRS No. Part No. Α В 23.96 CL231-3006-8 3110-6S 9.96 6.35 CL231-3001-4 3110-8S 8.39 26.5 CL231-3008-3 12 3110-12S 17.58 13.97 31.58 CL231-0018-0 3110-16S 22.66 19.05 36.66

#### (All Shielded Type)



								ι	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	Jnit:mm
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

#### **Tooling**

## (Straight Cable Exit Type)

Connector	. Process	Tool	lame		
3130-6P-C	Wire clamp Remaining part of cable cut		3130-6CT		
	Crimping, Clamp		3130-6GP		
3130-8P-C	Wire clamp Remaining part of cable cut		3130-8CT		
	Crimping, Clamp	Hi-Flex Connecting press	3130—8GP		
313012PC	Wire clamp Remaining part of cable cut	(CL550-0082-2)	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		31306CTA	
0100 017	Crimping, Clamp	Hi-Flex	3130-6GP-A	
3130_16PA_C	Wire clamp (CL550-0082-2) Remaining part of cable cut	3130-16CT-A		
3130-16PA-C	Crimping, Clamp		3130-16GP-A	