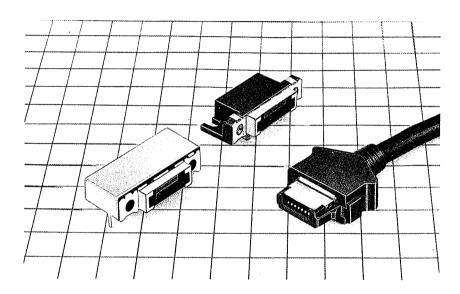
3100 SERIES LOW PROFILE CONNECTOR FOR PREVENTING EMI

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

- 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

Specification				
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 between 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 ~ ф 0.83	ф 0.88∼ ф 0.98			

Material & Finish

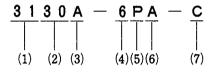
		Material Finish	
	Insulation	PBT resin	Black UL94V-0
	Contact	Brass	Selective gold plating
	Shell	Brass	Solder plating
	Insulation	ulation Polycarbonate Resin	White for AWG #28
	Ilisulation		Black for AWG #30
Plug	Contact	Brass	Selective gold plating
riug	Guide Plate	Polycarbonate resin	Transparent
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

Ordering Information

Receptacle

$$\frac{31}{\begin{vmatrix} 1 & 0 & -6 & S & A \\ \hline \begin{vmatrix} 1 & 0 & & \\ & & & \\ \end{bmatrix}} - \frac{6}{\begin{vmatrix} 1 & S & A \\ \hline & & \\ \end{bmatrix}} = \frac{1}{(3)(4)(5)}$$

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: φ 1.0 (φ 0.88~ φ 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

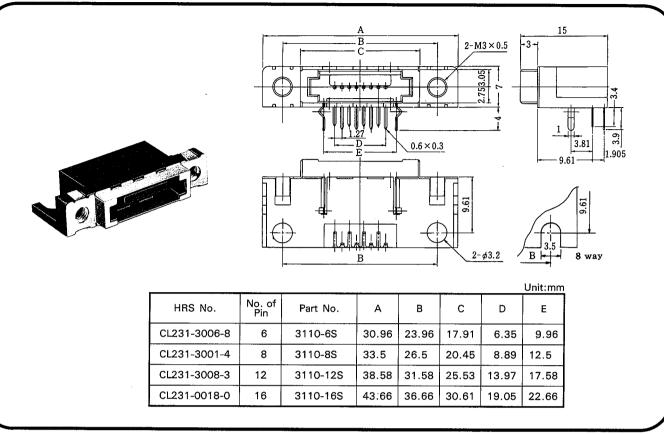
Blank: Straight Cable Exit

A: Side Cable Exit

(7) Cover

C: Standard

Receptacle (Standard)



Receptacle (All Shielded Type)

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

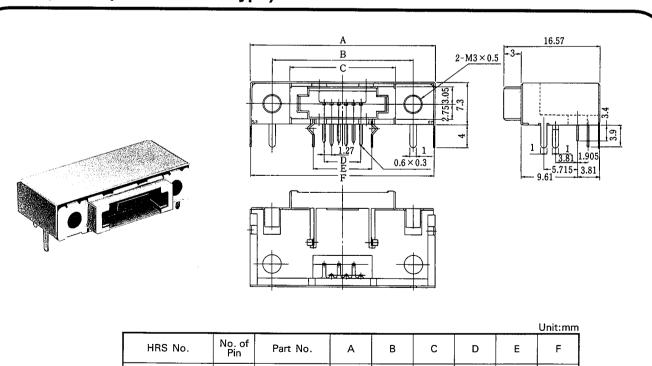
19.06

9.96

22.66

31.26

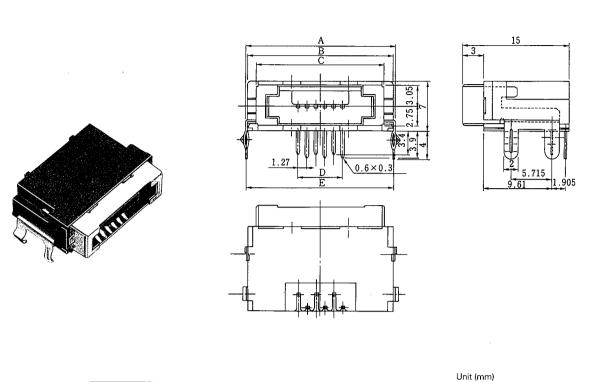
43.96



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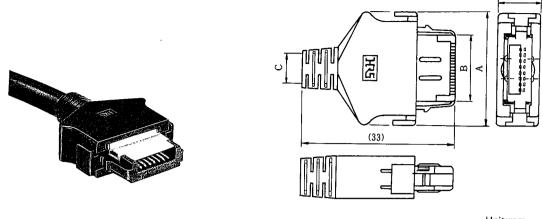
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Receptacle (Without Mounting Hole Type)



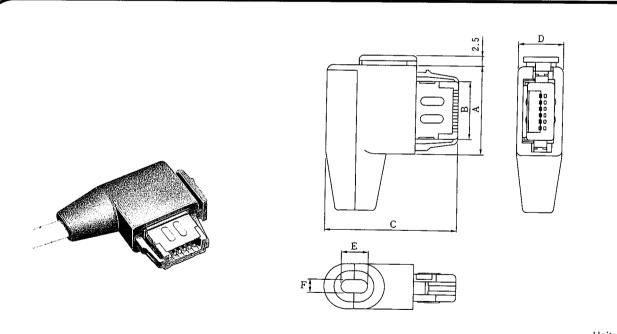
HRS No.	No. of pin	Parts No.	А	В	С	D	E
CL231-3017-4	6	3110-6SB	20.86	20.26	17.91	6.35	20.56
CL231-0021-5	14	3110-14SB	31.02	30.42	28.07	16.51	30.72

Plug (Straight Cable Exit Type)



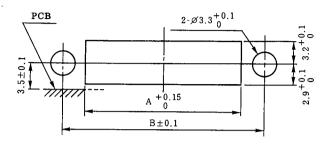
						Unit:mm
i	HRS No.	No. of Pin	Part No.	А	В	С
	CL231-3014-6	6	3130-6P-C	21.46	11.36	ø 5.8
	CL231-3002-7	8	3130-8P-C	24	13.9	ø6.2
	CL231-3009-6	12	3130-12P-C	29.08	18.98	ø6.7
l	CL231-0022-8	14	3130-14P-C	31.62	21.52	φ7.0

Plug (Side Cable Exit Type)



HRS No.	No. of Pin	Part No.	А	В	С	D	E	Unit:mm 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

 CL231-3006-8
 6
 3110- 6S
 18.06
 23.96

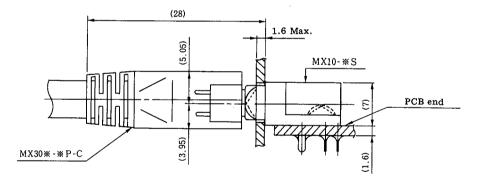
 CL231-3001-4
 8
 3110- 8S
 20.6
 26.5

 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
 --

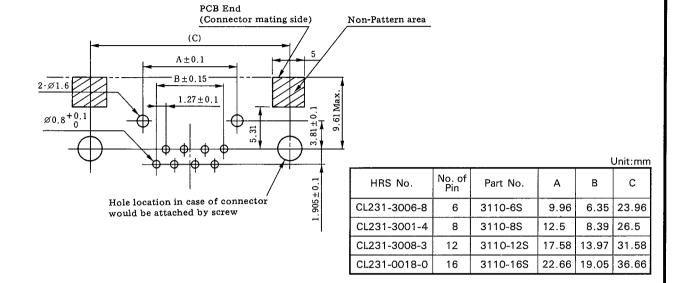
Coupling Status



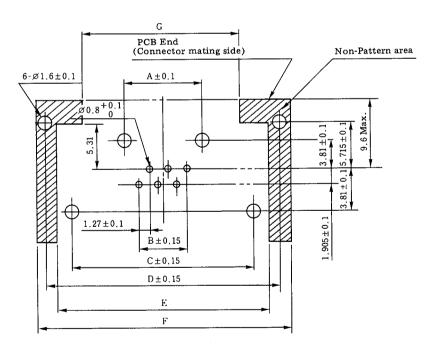
Note: Screw for Panel: M3 x 0.5 length 6 mm.

Backboard Pattern

(Standard)

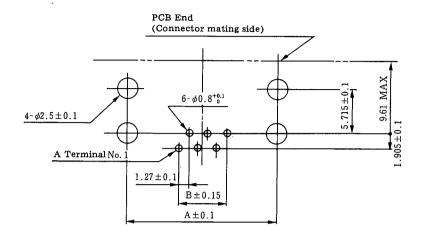


(All Shielded Type)



									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

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Tooling

(Straight Cable Exit Type)

Connector	Process	Tool Name		
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 (CL550-0082-2) ple cut	31308GP	
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	
0100 017	Crimping, Clamp	Hi-Flex	3130-6GP-A	
3130–16PA–C	Wire clamp Remaining part of cable cut	Connecting press (CL550—0082—2)	3130-16CT-A	
5150-101 A-0	Crimping, Clamp		3130–16GP–A	