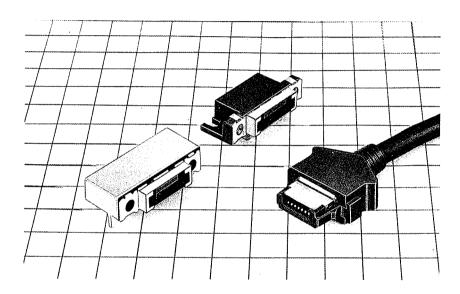
3100 SERIES LOW PROFILE CONNECTOR FOR PREVENTING EMI

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				

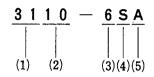
Relation between gulde plate and applicable coating O.D.						
Hole dia (mm) of Wire Configuration Guide Plate	ф 0.65	ф 0.85	ф 1			
Applicable Cable Cut dia (mm)	ф 0.57 ~ ф 0.63	ф 0.75 ~ ф 0.83	ф 0.88∼ ф 0.98			

Material & Finish

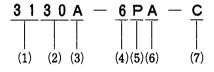
		Material Finish	
	Insulation	PBT resin	Black UL94V-0
Receptacle	Contact	Brass	Selective gold plating
	Shell	Brass	Solder plating
	Insulation	Polycarbonate Resin	White for AWG #28
	Insulation	rolycarbonate nesin	Black for AWG #30
Plug	Contact	Brass	Selective gold plating
riug	Guide Plate	Polycarbonate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

Ordering Information

Receptacle



Plug

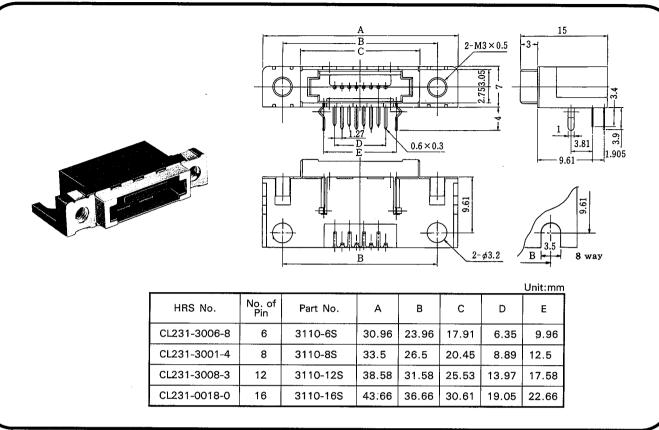


- (1) Series Number: 31
- (2) Type 10: Right Angle Dip
- (3) No. of Pins: 6, 8, 12, 14, 16
- (4) Type of opening S: Receptacle
- (5) Additional Function Blank: Standard A: All Shield Type
- (1) Series Number: 31
- (2) Type 30: AWG28, 26 IDC 31: AWG30, IDC
- (3) Hole dia. of Wire Configuration Tube Plate Black: ∮ 1.0 (∮ 0.88∼ ∮ 0.98)

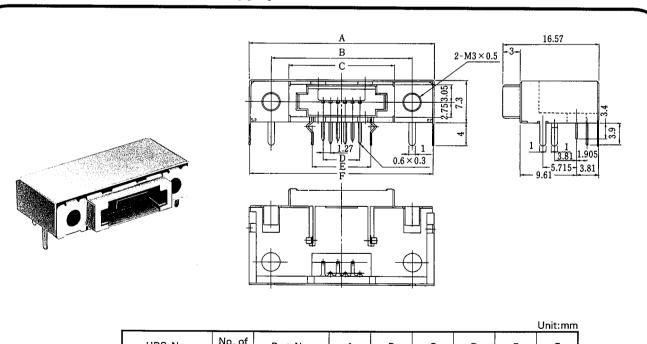
A: \$\\\ \phi 0.85(\phi 0.75\simeq \phi 0.83)\$

- B: φ 0.65(φ 0.57~ φ 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)



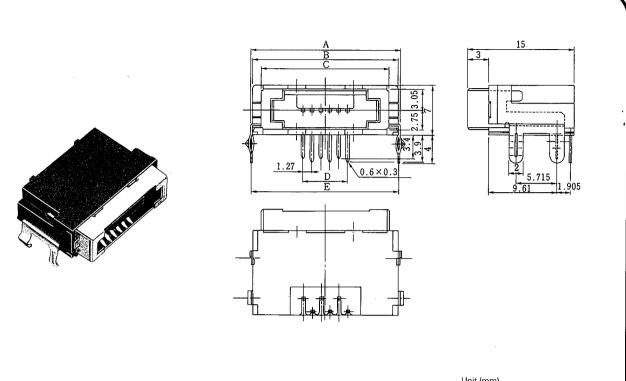
Receptacle (All Shielded Type)



HRS No.	No. of Pin	Part No.	А	В	С	D	Е	F
CL231-3003-0	6	3110-6SA	31.56	23.96	17.91	6.35	9.96	31.26
CL231-0020-2	16	3110-16SA	44.26	36.66	30.61	19.06	22.66	43.96

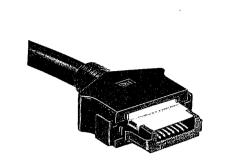
Sep.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
Nov.1.2016: Copyright 2016 HIROSE ELECTRIC CO., LTD. All Rights Re

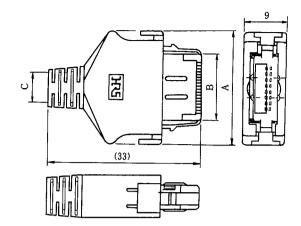
Receptacle (Without Mounting Hole Type)



							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

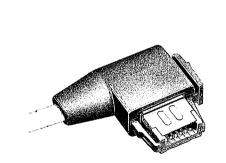
Plug (Straight Cable Exit Type)

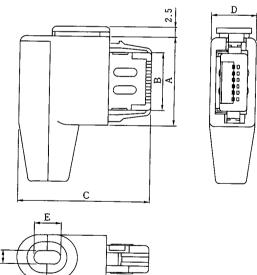




					Unit:mm
HRS No.	No. of Pin	Part No.	А	В	С
CL231-3014-6	6	3130-6P-C	21.46	11.36	ø 5.8
CL231-3002-7	8	3130-8P-C	24	13.9	ø6.2
CL231-3009-6	12	3130-12P-C	29.08	18.98	ø6.7
CL231-0022-8	14	3130-14P-C	31.62	21.52	φ7.0

Plug (Side Cable Exit Type)





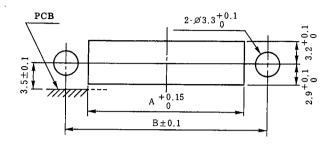
	E	
F		

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

CL231-0018-0

CL231-0021-5



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

3110-16S

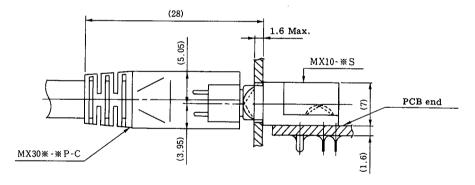
3110-14SB

30.76

28.22

36.66

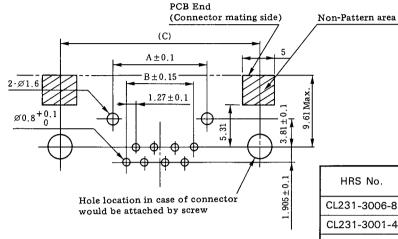
Coupling Status



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

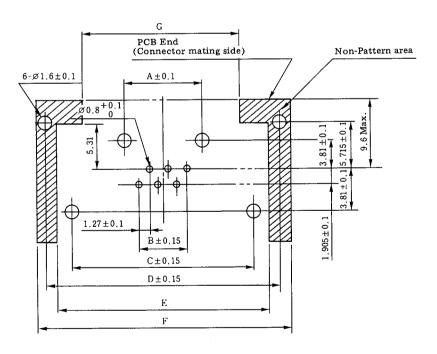
Backboard Pattern

(Standard)



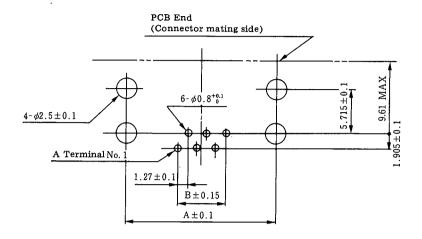
Unit:mm No. of Pin С HRS No. Part No. Α В 23.96 CL231-3006-8 3110-6S 9.96 6.35 CL231-3001-4 3110-8S 8.39 26.5 CL231-3008-3 12 3110-12S 17.58 13.97 31.58 CL231-0018-0 3110-16S 19.05 36.66

(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)



0			Į.	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

Procedure	Specification	Procedure	Specification
I. Termination	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
2. Wire configuration	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
3. Cutting and clamping	Cut the remaining part of the wire and clamp the cable conductor.	6. Covering	
	Crimped connection		

Sep.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.

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		31308CT
	Crimping, Clamp	Hi-Flex Connecting press	31308GP
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	Hi-Flex Connecting press (CL550–0082–2)	3130-6CT-A
	Crimping, Clamp		3130-6GP-A
3130-16PA-C	Wire clamp Remaining part of cable cut		3130-16CT-A
	Crimping, Clamp		3130–16GP–A