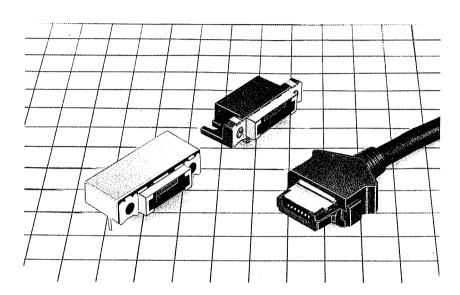
3100 SERIES LOW PROFILE CONNECTOR FOR PREVENTING EMI

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

| 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 | | | |

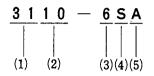
| Relation betwee | en guide plate and | applicable coating | O.D. |
|--|--------------------|------------------------|----------------|
| Hole dia (mm) of Wire Configuration Guide Plate | ф 1 | | |
| Applicable Cable Cut dia (mm) | ф 0.57∼ ф 0.63 | ф 0.75 ~ ф 0.83 | Ф 0.88∼ Ф 0.98 |

Material & Finish

| | | Material Finish | | |
|------------|-------------|--------------------------------|------------------------|--|
| | Insulation | PBT resin | Black UL94V-0 | |
| Receptacle | Contact | Brass | Selective gold plating | |
| | Shell | Brass | Solder plating | |
| | Insulation | Dolugerhaneta Davis | White for AWG #28 | |
| | Ilisulation | Insulation Polycarbonate Resin | 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



- - (1) Series Number: 31 (2) Type 30: AWG28, 26 IDC 31: AWG30, IDC

(1) Series Number: 31

(4) Type of opening S: Receptacle

(5) Additional Function Blank: Standard A: All Shield Type

10: Right Angle Dip

(3) No. of Pins: 6, 8, 12, 14, 16

(2) Type

(3) Hole dia. of Wire Configuration Tube Plate Black: \$ 1.0 (\$ 0.88~ \$ 0.98) ₱ 0.85(₱ 0.75~ ₱ 0.83) A:

B: ϕ 0.65(ϕ 0.57 \sim ϕ 0.63)

(4) No. of Pins: 6, 8, 12, 14, 16

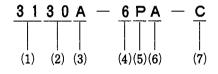
(5) Type of opening P: Plug (6) Cover Type

Blank: Straight Cable Exit

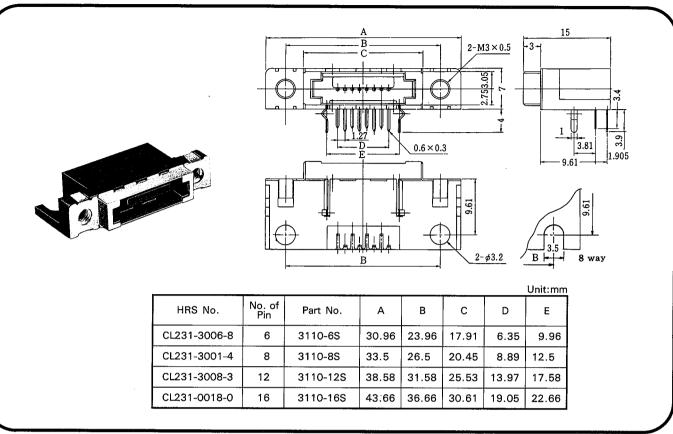
Side Cable Exit A:

(7) Cover C: Standard

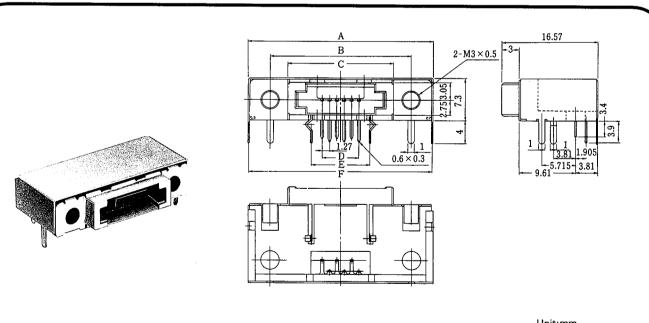
Plug



Receptacle (Standard)



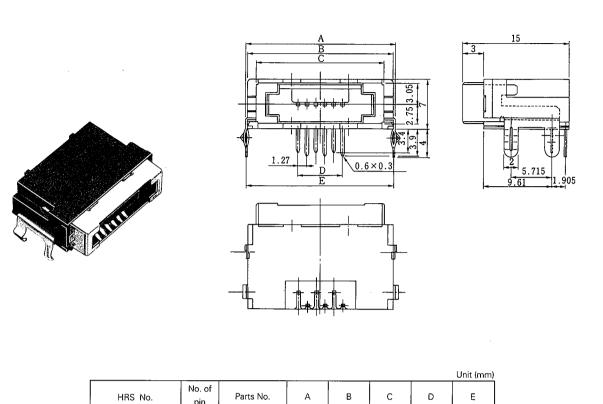
Receptacle (All Shielded Type)

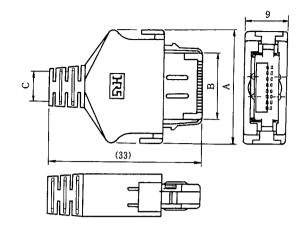


| HRS No. | No. of Pin | Part No. | А | В | С | D | Е | F |
|--------------|---------------|-----------|-------|-------|-------|-------|-------|-------|
| CL231-3003-0 | 6 | 3110-6SA | 31.56 | 23.96 | 17.91 | 6.35 | 9.96 | 31.26 |
| CL231-0020-2 | 16 | 3110-16SA | 44.26 | 36.66 | 30.61 | 19.06 | 22.66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

6 HIROSE ELECT

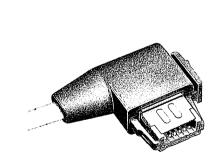
Receptacle (Without Mounting Hole Type)

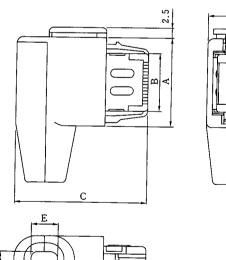




| | | | , | | Unit:mm |
|--------------|---------------|------------|-------|-------|---------|
| HRS No. | No. of Pin | Part No. | А | В | С |
| CL231-3014-6 | 6 | 3130-6P-C | 21.46 | 11.36 | ø 5.8 |
| CL231-3002-7 | 8 | 3130-8P-C | 24 | 13.9 | ø6.2 |
| CL231-3009-6 | 12 | 3130-12P-C | 29.08 | 18.98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

Plug (Side Cable Exit Type)



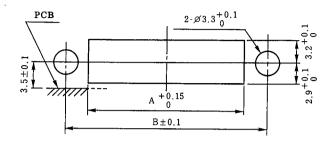


| E | |
|---|--|
| F | |

| HRS No. | No. of Pin | Part No. | А | 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 | φ7 | 7.2 |

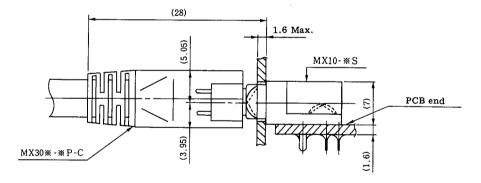
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Panel Cutout (Thickness of Panel: Max.1.6mm)



Unit: mm No. of HRS No. Part No. CL231-3006-8 6 18.06 3110- 6S 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

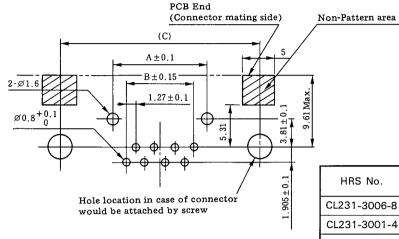
Coupling Status



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

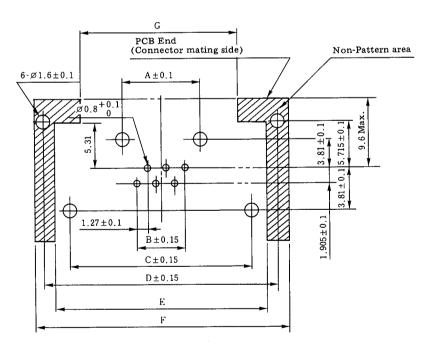
Backboard Pattern

(Standard)



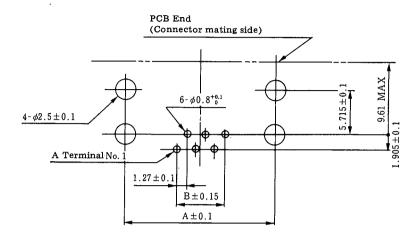
Unit:mm No. of Pin HRS No. С Part No. Α CL231-3006-8 9.96 6.35 23.96 3110-6S CL231-3001-4 8 3110-8S 12.5 8.39 26.5 CL231-3008-3 12 3110-12S 17.58 13.97 31.58 CL231-0018-0 3110-16S 22.66 19.05 36.66

(All Shielded Type)



| | | | | | | | | | 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 |

Connecting Method

| Procedure | Specification | Procedure | Specification |
|-------------------------|---|--------------------------|--|
| 1. 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 |
| | (6) | | 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 | \otimes |
| | Crimped connection | | |

Tooling

(Straight Cable Exit Type)

| Connector | Process | Tool | Name |
|------------|---|-----------------------------|-----------|
| 3130-6P-C | Wire clamp Remaining part of cable cut | | 3130—6CT |
| 0,00 | 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 | | 3130-6CT-A | |
| 3130—6PA | 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 | |
| 3130-10FA-C | Crimping, Clamp | | 3130—16GP—A | |