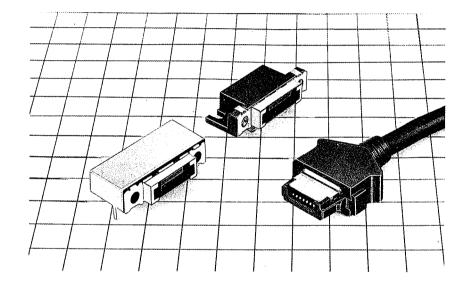
# **3100 SERIES LOW PROFILE CONNECTOR FOR PREVENTING EMI**

#### 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.

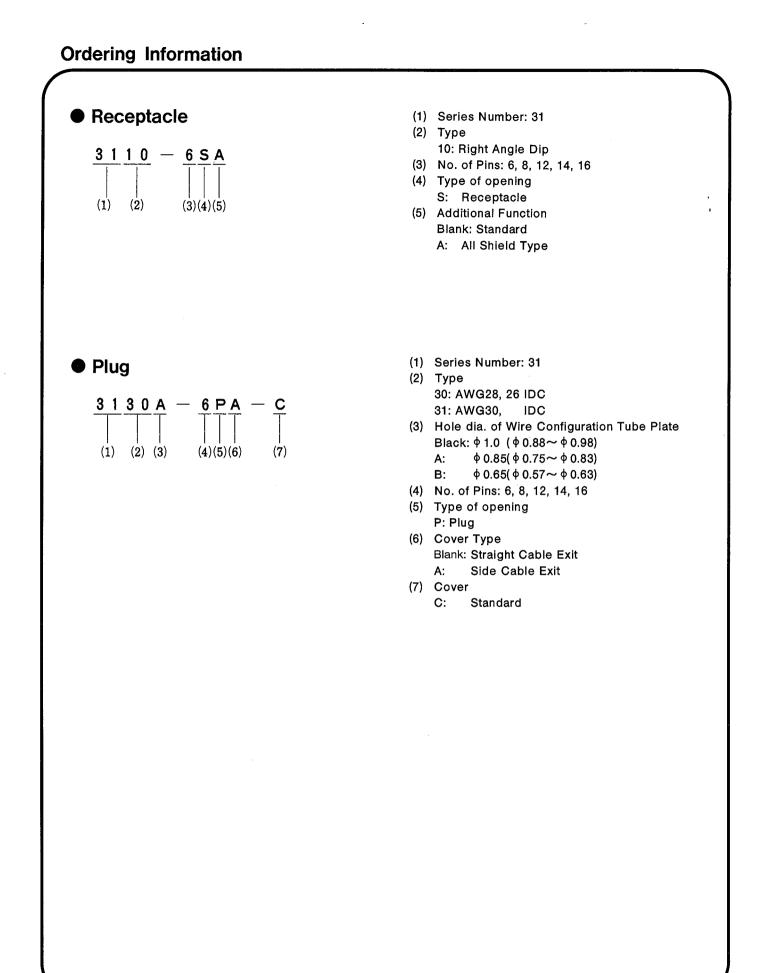
# **Specification**

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				

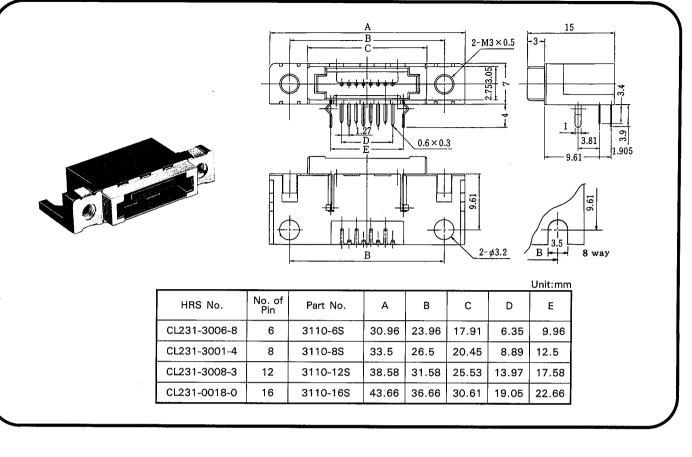
Relation betwee	on guide plate and	applicable coating	O.D.	
Hole dia (mm) of Wire Configuration Guide Plate	<b>ф 0.65</b>	ф 0.85	φ 1	
Applicable Cable Cut dia (mm)	<b>∲ 0.57∼ ∲ 0.6</b> 3	<b>∲ 0.75∼ ∳ 0.8</b> 3	¢0.88∼ ¢0.98	

### Material & Finish

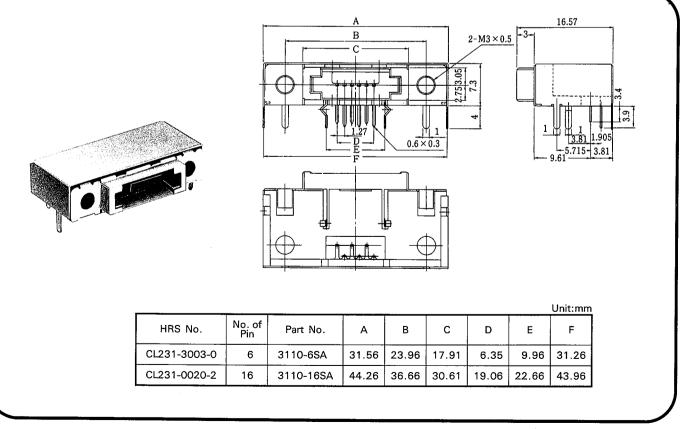
		Material Finish	
	Insulation	PBT resin	Black UL94V-0
Receptacle Contact Shell	Contact	Brass	Selective gold plating
	Brass	Solder plating	
	Insulation	Polycerhanete Pasia	White for AWG #28
	msulation	Polycarbonate Resin	Black for AWG #30
Plug	Contact	Brass	Selective gold plating
riug	Guide Plate	Polycarbonate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



#### **Receptacle (Standard)**

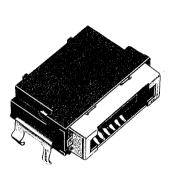


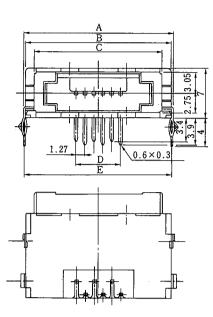
# Receptacle (All Shielded Type)

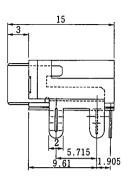


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# Receptacle (Without Mounting Hole Type)





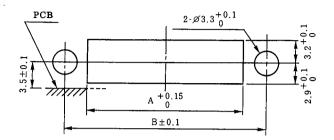


							Unit (mm)
HRS No.	No. of pin	Parts No.	А	В	с	D	E
CL231-3017-4	6	31 <b>10-</b> 6SB	20.86	20.26	17.91	6.35	20.56
CL231-0021-5	14	3110-14SB	31.02	30.42	28.07	16.51	30.72

### Plug (Straight Cable Exit Type)

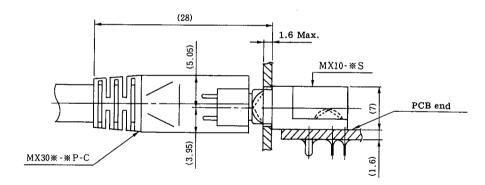
		v							
	HRS No CL231-30 CL231-300 CL231-300 CL231-002	14-6 02-7 09-6	6 313 8 313 12 313	art No. 0-6P-C 0-8P-C 0-12P-C 0-14P-C	A 21.46 24 29.08 31.62	B 11.36 13.9 18.98 21.52	Unit:m C \$\$5.8 \$\$6.2 \$\$6.7 \$\$7.0		
Plug (Side Cable Exit	Туре)						D		
				c		A 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		R	
HI	IS No. Pi	F	Part No.		В	с	D	E	Unit:mm
		6 31:	30-6PA 30-16PA-C	17.46 30.16		26.15 26.75	9.0 10.2	5.2 ¢	2.8

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



				Unit: mm
HRS No.	No. of Pin	Part No.	A	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	-

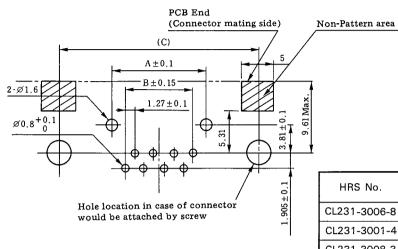
#### **Coupling Status**



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

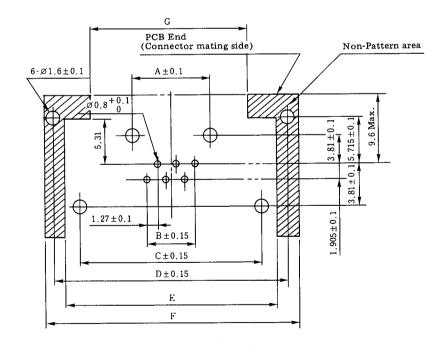
#### **Backboard Pattern**





					Jnit:mm
HRS No.	No. of Pin	Part No.	A	В	С
CL231-3006-8	6	3110-6S	9.96	6.35	23.96
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	16	3110-16S	22.66	19.05	36.66

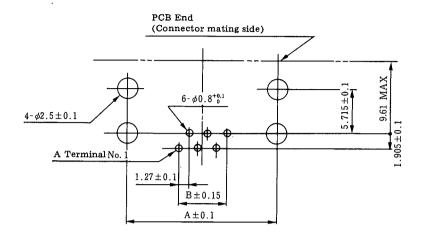
### (All Shielded Type)



									Jnit:mm
HRS No.	No. of Pin	Part No.	А	В	с	D	E	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

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### (Without Mounting Hole Type)



8			l	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
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
2. Wire configuration	Configure the cable conductor to the corresponding guide	5. Covering and clamping	IDC Cover the ground plate B and fasten the cable by clamping.
	plate.		Clamp
3. Cutting and clamping	Cut the remaining part of the wire and clamp the cable conductor.	6. Covering	
	Crimped connection		

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#### Tooling

Connector	Process	Tool Na	ame
3130–6P–-C	Wire clamp Remaining part of cable cut		3130–6CT
3130-62-6	Crimping, Clamp		3130—6GP
3130–8P–C	Wire clamp Remaining part of cable cut		3130–8CT
	Crimping, Clamp	Hi-Flex	31308GP
130–12P–C	Wire clamp Remaining part of cable cut	Connecting press (CL550-0082-2)	3130–12CT
	Crimping, Clamp		3130–12GP
1130-14P-C	Wire clamp Remaining part of cable cut		3130–14CT
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Crimping, Clamp		3130–14GP

### (Side Cable Exit Type)

Connector	Process	Tool N	Jame
3130–6PA	Wire clamp Remaining part of cable cut		3130–6CT–A
0100-01A	Crimping, Clamp	Hi-Flex	31306GPA
3130—16PA—C	Wire clamp Remaining part of cable cut	Connecting press (CL550—0082—2)	313016CTA
3130–16PA–C	Crimping, Clamp		313016GPA

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<u>3130-8GP</u> <u>3130-6GP-A</u> <u>3130-12CT</u> <u>3130-6CT-A</u> <u>3130-16GPA</u> <u>3130-14GP</u> <u>3130-6GP</u> <u>3130-6CT</u> <u>3130-16CTA</u> <u>3130-6CT(62)</u> <u>3130-6CT(61)</u> <u>3130-14CT</u> <u>3130-12GP</u> <u>3130-8CT</u> <u>3130-6CT(63)</u>