

# CE01 Series

## Conforming to JIS-B-6015 Crimp Contact Design



The CE01 series connectors conform to JIS-B-6015. These connectors meet the performance criteria of most factory automation applications as they withstand against exposure, oil and vibration.

### FEATURE

- Bayonet lock coupling
- Moistureproof type design
- with first-make, last-break contact grounded to shell for circuit protection

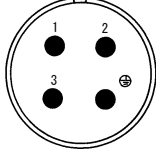
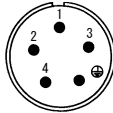
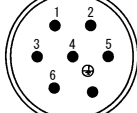
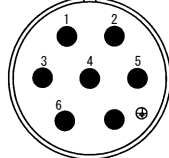
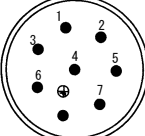
## MATERIAL/FINISH

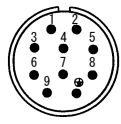
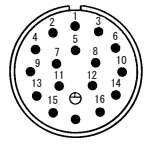
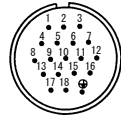
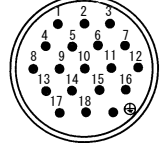
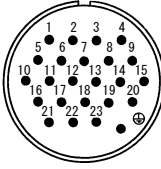
Shell	Aluminum alloy/Blue chromate or olive drab chromate finish
Coupling ring	Aluminum alloy/Blue chromate or olive drab chromate finish
Insulator	Polyester resin (UL94V-0)/Gray
Contact	Copper alloy/Silver plating
Ground clip	Copper alloy/Silver plating
O-ring	Nitrile rubber
Gasket	Synthetic rubber


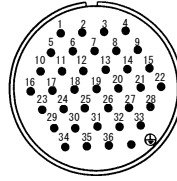
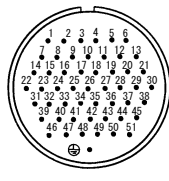
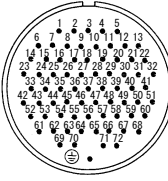
## Specification

Contact size	#20	#16	#12	#8
Current rating	5A	13A	23A	46A
Voltage rating	INST		A	D
	200V (rms) AC		500V (rms) AC	900V (rms) AC
	250V DC		700V DC	1,250 DC
Dielectric Withstanding voltage	1,000V (rms) AC 1-MINUTE		2,000V (rms) AC 1-MINUTE	2,800V (rms) AC 1-MINUTE
Insulation resistance	5,000M $\Omega$ min. at 500V DC			
Contact resistance	8m $\Omega$ max	4m $\Omega$ max	2m $\Omega$ max	0.6m $\Omega$ max
Operating temperature	-55°C to +125°C			
Humidity	85%max			

## Insert Arrangements—Front View of Pin Insert

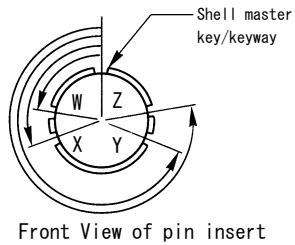
No. of Contacts	4	5	7		8
Arrangements					
Insert No.	22-22	18-11	20-15	24-10	22-23
Contact Size	#8	#12	#12	#8	#12
Rating	A	A	A	A	D (4) A (Others)

No. of Contacts	10	17	19	24	
Arrangements					
Insert No.	18-1	20-29	18-19A	22-14	24-28
Contact Size	#16	#16	#20	#16	#16
Rating	A (3,5,6,8) INST (Others)	A	INST	A	INST

No. of Contacts	30	37	52	73
Arrangements				
Insert No.	20-30A	28-21	24-52A	28-73A
Contact Size	#20	#16	#20	#20
Rating	INST	A	INST	INST

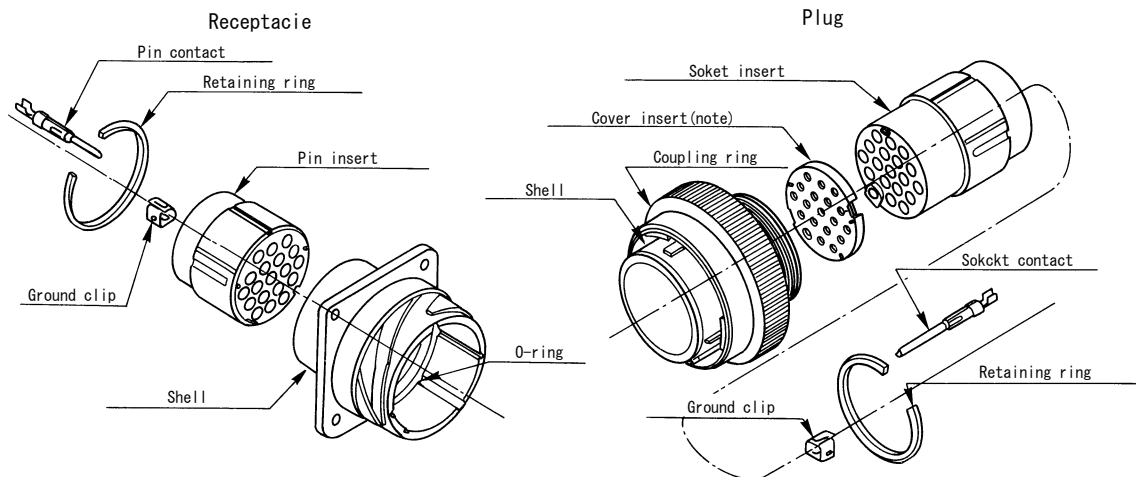
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## Alternate Insert Positions



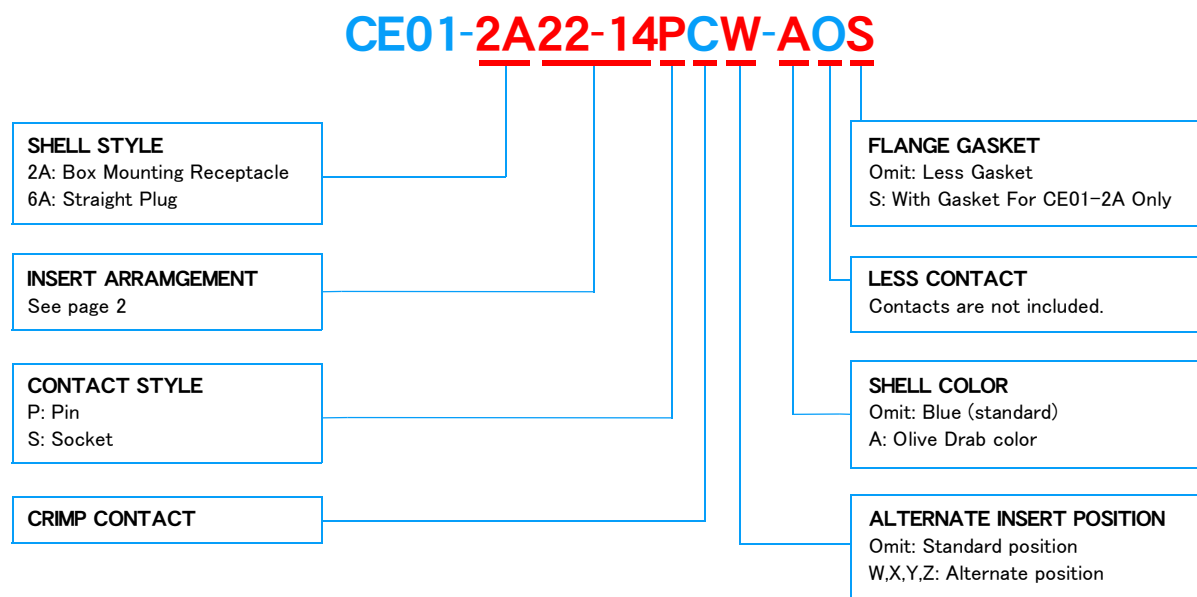
No. of Contacts	Insert No.				
		W	X	Y	Z
4	22-22	—	160°	—	300°
5	18-11	—	170°	265°	—
7	20-15	80°	—	—	280°
	24-10	80°	—	—	280°
8	22-23	85°	—	—	—
10	18-1	70°	145°	260°	290°
17	20-29	80°	—	—	280°
19	18-19A	80°	110°	250°	280°
	22-14	75°	150°	—	285°
24	24-28	80°	110°	250°	280°
30	20-30A	80°	110°	250°	280°
37	28-21	80°	110°	250°	280°
52	24-52A	80°	110°	250°	280°
73	28-73A	80°	110°	250°	280°

## Assembly



Note: Cover insert is available for socket insert with #16 or #20 contacts only.

## Ordering Information (Without Contacts)



Note: Please place an order for contacts separately.

Unit : mm

## Ordering Information For Contacts

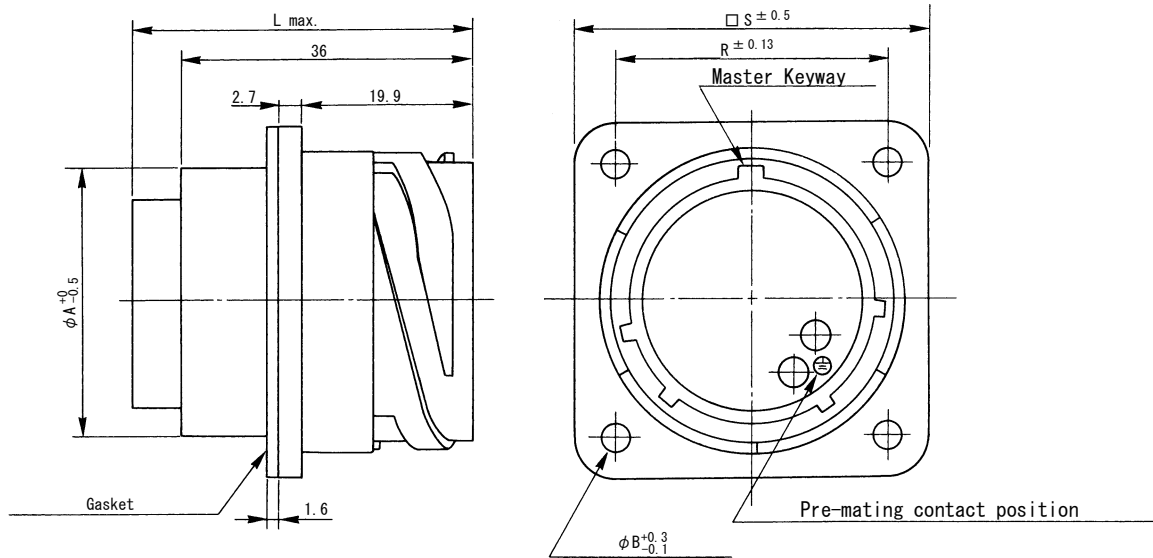
Contact Size	Quantity	Contact P/N		Wire Size Range		
		Pin	Socket	AWG	mm <sup>2</sup>	Ins. Dia.
#20	100pcs/bag	CE01-#20P-C2-100	CE01-#20S-C2-100	#26-#24	0.13-0.2	1.2-1.5
		CE01-#20P-C1-100	CE01-#20S-C1-100	#22-#18	0.3-0.75	2.3max.
	10,000pcs/reel	CE01-#20P-C2-10000	CE01-#20S-C2-10000	#26-#24	0.13-0.2	1.2-1.5
		CE01-#20P-C1-10000	CE01-#20S-C2-10000	#22-#18	0.3-0.75	2.3max.
#16	100pcs/bag	CE01-#16P-2024-100	CE01-#16S-2024-100	#24-#20	0.2-0.5	3.8max.
		CE01-#16P-1620-100	CE01-#16S-1620-100	#20-#16	0.5-1.25	
		CE01-#16P-1416-100	CE01-#16S-1416-100	#14	2.0	
	3,500pcs/reel	CE01-#16P-2024-3500	CE01-#16S-2024-3500	#24-#20	0.2-0.5	
		CE01-#16P-1620-3500	CE01-#16S-1620-3500	#20-#16	0.5-1.25	
		CE01-#16P-1416-3500	CE01-#16S-1416-3500	#14	2.0	
#12	10pcs/bag	CE01-#12P-CIM-10	CE01-#12S-CIM-10	#16-#12	1.25-3.5	4.65max.
#8	10pcs/bag	CE01-#08P-C2M-10	CE01-#08S-C2M-10	#12-#10	3.5-5.5	7.25max.
		CE01-#08P-CIM-10	CE01-#08S-CIM-10	#10-#8	5.5-8.0	

# CE01 Series

Unit : mm

## ■ Bos Mounting Receptacle

### CE01-2A

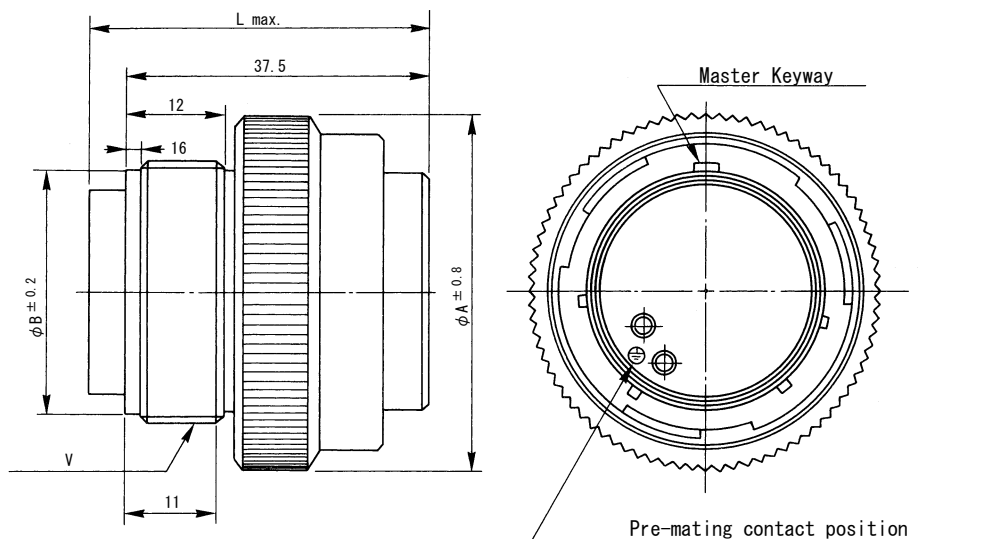


Shell Size	A	B	R	S
18	24.9	3.2	26.97	35.0
20	29.6	3.2	29.36	38.1
22	31.8	3.2	31.75	41.3
24	35.0	4.2	34.92	44.3
28	41.3	4.2	39.67	50.8

		Contact Size			
		#20	#16	#12	#8
L	Pin Insert	40.0	43.0	46.0	48.0
	Socket Insert	36.5	38.0	43.0	48.0

# ■ Straight Plug

## CE01-6A



Shell Size	A	B	Rear Threads V
18	35.9	23.5	1-20UNEF-2A
20	40.6	26.9	1 $\frac{1}{8}$ -18UNEF-2A
22	42.2	29.6	1 $\frac{1}{4}$ -18UNEF-2A
24	45.4	32.8	1 $\frac{3}{8}$ -18UNEF-2A
28	51.7	39.0	1 $\frac{5}{8}$ -18UNEF-2A

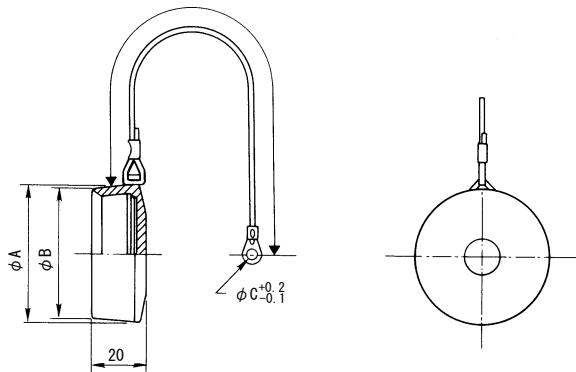
		Contact Size			
		#20	#16	#12	#8
L	Pin Insert	40.0	43.0	46.0	48.0
	Socket Insert	37.5	38.0	43.0	48.0

# CE01 Series

Unit : mm

## ■ Receptacle Rubber Caps

Material·····Synthetic rubber (Black)



Shell Size	Part Number	A	B	C	L
18	CE01RC-18RA	37.5	33.1	3.2	80
20	CE01RC-20RA	42.6	38.2	3.2	100
22	CE01RC-22RA	43.8	39.4	3.2	110
24	CE01RC-24RA	47.0	42.6	4.3	130
28	CE01RC-28RA	53.3	49.0	4.3	150

## ■ Assembly Tools

Contact Size		Wire Size Range		Hand Crimp Tools			Removal Tool
		AWG	mm <sup>2</sup>	Crimping Tool	Locator	Stopper	
#20	C2	#26-#22	0.13-0.3	357J-13414	—	—	357J-13979
	C1	#22-#18	0.3-0.75	357J-13413	—	—	
#16	2024	#24-#20	0.2-0.5	357J-13412	—	—	357J12615
	1620	#20-#16	0.5-1.25	357J-13411	—	—	
	1416	#14	2.0	357J-13426	—	—	
#12	C1	#16-#12	1.25-3.5	357J-12610	357J-12611	—	357J-12612
#8	C2	#12-#10	3.5-5.5	Note 357J-12605	(357J-12606)	(357J-12608)	357J-12609
	C1	#10-#8	5.5-8.0			(357J-12607)	

Note: 357J-12605 is a TOOL KIT part number which includes a crimp tool,  
 357J-12606, 357J-12607, 357J-12608 and 357J-12724 (Test gauge).  
 The crimping tool can not be sold alone separately.