

# Waterproof Circular Connectors

## CE02-2A Series





### **♦** OUTLINE

CE02-2A Series is intermateable with D/MS series (MIL-DTL-5015 compatible). In order to correspond to various environments whereindustrial equipment is set up, CE02-2A series connector withstands moisture, oil and vibration by using synthetic rubber at the front insert.



Waterproof IP67

> This connector is ideal for use under the external condition such as industrial equipment which needs to withstand moisture, oil and dust.

#### **♦** FEATURES

- CE02-2A series is interchangeable with D/MS series receptacle because the mounting pattern is same.
- The insert is a three-piece design. The contact will not be fallen out and subsided when used under the normal operating condition.
- ullet The insert which is made with synthetic rubber can be used at a temperature up to  $125^{\circ}\mathrm{C}$ .
- When CEO2-2A is mating with plug connector of CEO2-6A, D/MS(D190) or CEO5 series, it will conform to IP67

#### **♦ SPECIFICATIONS**

Contact Size	# 16	# 12	# 8			
Rated Current	13A / Contact	23A / Contact 46A / Contac				
Datad Valtage	250V AC(r.m.s.)	350V AC(r.m.s.)				
Rated Voltage	350V DC	500V DC				
Dielectric Withstanding Voltage	1000V AC(r.m.s.) at 1 minute. 1500V AC(r.m.s.) at 1 minute.					
Insulation Resistance	1,000M Ω min. at 500V DC					
Waterproof Rating	IP67					
Operating Temperature	− 40°C to + 125°C					

#### **♦ MATERIAL / FINISH**

Item	Material / Finish
Shell	Aluminum Alloy / Black Trivalent Chromium Treatment
Front Insert	Synthetic Rubber (Silcone)
Middle Insert	PPS Resin
Rear Insert	PPS Resin
Contact	Copper Alloy / Silver Plating
Flange Gasket	Synthetic Rubber (Silcone)
Gasket	Synthetic Rubber (Silcone)

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Threaded

#### ▶Insert Arrangements

MIL-DTL-5015 Compatible, Pin insert Only

Number of Contact	4	6	7	17	
Insert No.	18-10	18-12	20-15	20-29	
Insert Arrangement					
Contact Size	# 12	# 16	# 12	# 16	
Number of Contact	19	4	8	7	
Insert No.	22-14	22-22	22-23	24-10	
Insert Arrangement					
Contact Size	# 16	# 8	# 12	# 8	

Note: Each of the inserts in the CE02 series is viewed from its coupling side. All keys are set at their standard positions.

Contact Size Symbol

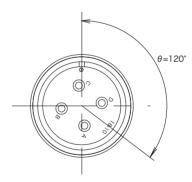
16 #12 #8



### **▶** Alternate Insert Positions

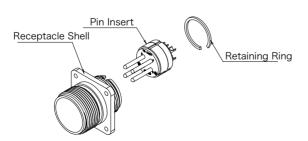
Insert No.	Contact Size/	Alternate Insert Key Positions						
	Number of Contact	W	Х	Υ	Z			
18-10P	# 12 / 4		120°	240°				
18-12P	# 16 / 6	80°			280°			
20-15P	# 12 / 7	80°			280°			
20-29P	# 16 / 17	80°			280°			
22-14P	# 19 / 19	80°	110°	250°	280°			
22-22P	# 8/4		110°	250°				
22-23P	# 12 / 8	35°						
24-10P	# 8/7	80°			280°			

Alternate insert key positions, W, X, Y and Z prevent cross-plugging problems in applications requiring the use of more than one connector of the same size and arrangement.



Front View of Pin Insert (For Model CE02-2A18-10PX-D)

#### Diagram



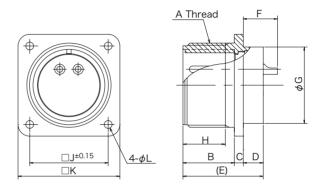
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### **▶** Box Receptacle Connector

# $\begin{array}{c|c} \textbf{CE02-2A} & \textbf{20-29} & \textbf{PWS-D} \\ \hline \hline \textcircled{1} & \hline \textcircled{2} & \textcircled{3} & \textcircled{4} & \overleftarrow{\textbf{6}} & \overleftarrow{\textbf{6}} \end{array}$

① Shell Style	2A : Box Receptacle
② Shell Size	18, 20, 22 and 24
③ Insert Number	Refer to page 2.
4 Contact Style	P : Pin Contact
⑤ Alternate Insert Position	Omit : Standard Position W, X, Y, Z : Altenate Insert Position
© Gasket	Omit : Without Gasket S : With Gasket
7 Finish	D : Black Trivalent Chromium Treatment



Part Number	А	В	С	D	(E)	F max.	G±0.5	H min.	J±0.15	К	L +0.25 -0.12
CE02-2A18-10P-D	1 1/8-18UNEF-2A	19.2	3.35	7.44	30.03	13.8	25.4	15.88	26.97	34.9	3.05
CE02-2A18-12P-D	1 1/8-18UNEF-2A	19.2	3.35	7.44	30.03	11.5	25.5	15.88	26.97	34.9	3.05
CE02-2A20-15P-D	1 1/4-18UNEF-2A	19.2	3.35	7.44	30.03	13.8	28.6	15.88	29.36	38.1	3.05
CE02-2A20-29P-D	1 1/4-18UNEF-2A	19.2	3.35	7.44	30.03	11.5	28.6	15.88	29.36	38.1	3.05
CE02-2A22-14P-D	1 3/8-18UNEF-2A	19.2	3.35	7.44	30.03	11.5	31.8	15.88	31.75	41.3	3.05
CE02-2A22-22P-D	1 3/8-18UNEF-2A	19.2	3.35	7.44	30.03	16.9	31.8	15.88	31.75	41.3	3.05
CE02-2A22-23P-D	1 3/8-18UNEF-2A	19.2	3.35	7.44	30.03	13.8	31.8	15.88	31.75	41.3	3.05
CE02-2A24-10P-D	1 1/2-18UNEF-2A	20.8	3.35	7.44	31.59	15.3	34.9	15.88	34.93	44.4	3.73

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