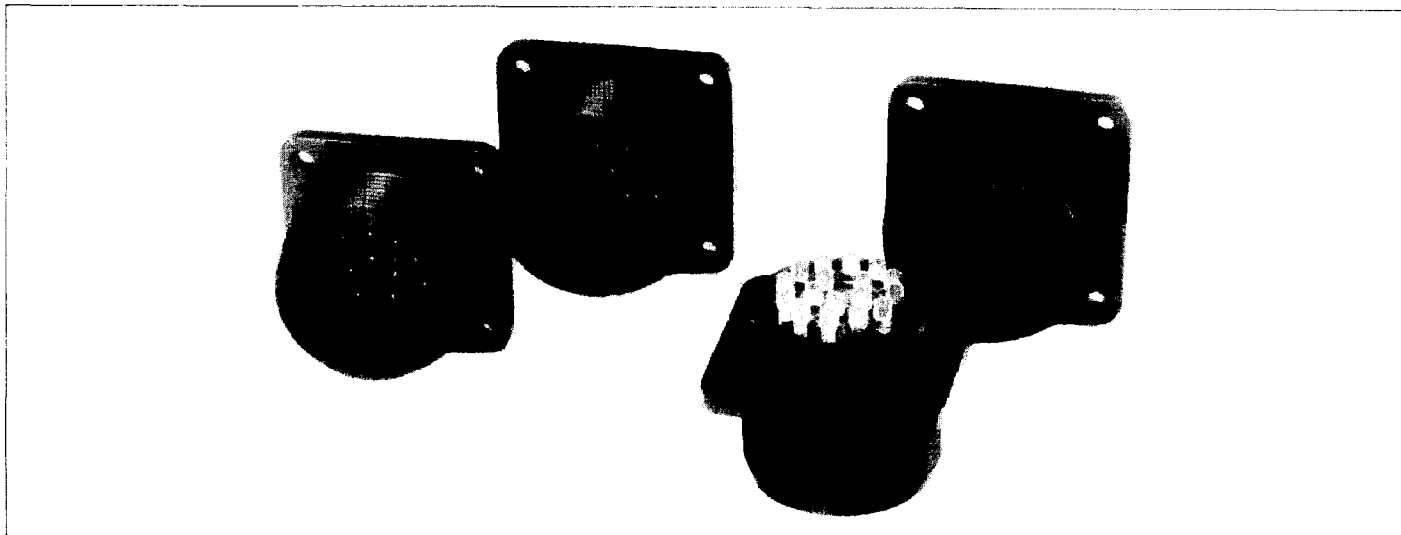


CE02-2A Series



Moistureproof Receptacle Type Conforming to MIL-C-5015



APPLICATIONS

DDK's CE02-2A series provides a set of vibration-resistant, moistureproof, and oilproof receptacle connectors. This series uses synthetic rubber for its front inserts to cope with the various environments in which industrial machines are installed. The products in the CE02-2A series are compatible with those in the DMS series and comply to MIL-C-5015. They prevent the entry of water moisture, cutting oil, and other foreign matter into machines where these connectors are employed, helping enhance the reliability of the machines. Typically, their best applications are in servo motors, machine tools, and equipment relating to factory automation as well as in extremely dusty environments. For plug connectors to mate with these receptacle connectors, DDK recommends that you use the CE02-6A series or the DMS (D190) series available from DDK.

FEATURES

- The products in the CE02-2A series are interchangeable with those in the DMS series, because both are identical in installation dimensions.
- The inserts are of a three-piece design. Their contacts will not break when used under normal operating conditions.
- The inserts, which are made of silicone rubber, may be used at temperature of up to 125°C
- Coupling a receptacle connector in the CE02-2A series with a plug connector in the CE02-6A series or the DMS (D190) series allows the entire joint between the two connectors to be moistureproof.

CE02-2A Series



MATERIAL/FINISH

ShellAluminum alloy/Zinc plating,
Olive drab chromate finish
Front insertSilicone rubber
Middle insert.....PPS resin
Rear insertPPS resin
ContactCopper alloy/Silver plating
Flange gasketSilicone rubber

Wire Size

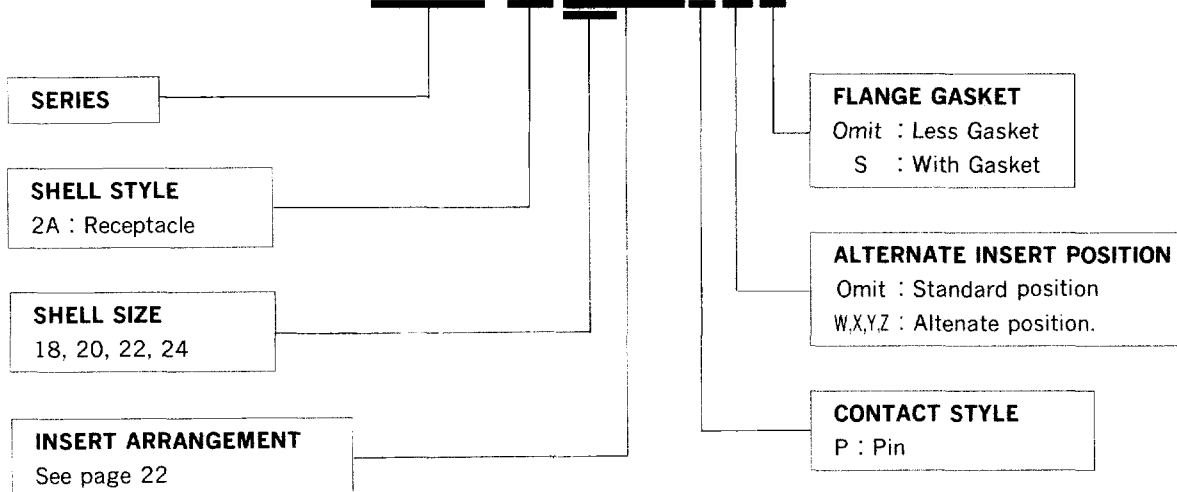
Contact Size	AWG
#16	#16-#22
#12	#12-#14
#8	#8-#10

Specifications

Current rating	Contact size	#16	#12	#8
	Max. value/ Per contact	13A	23A	26A
Voltage rating	AC(r.m.s)	250V	350V	350V
	DC	350V	500V	500V
Dielectric withstanding voltage	AC(r.m.s),1minute	1,000V	1,500V	1,500V
Contact resistance	less than mΩ	5mΩ max.		
Operating temperature		-40°C to + 125°C		

Ordering Information

CE02-2A20-29PWS

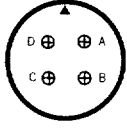
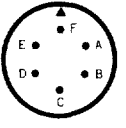
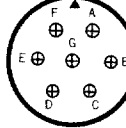
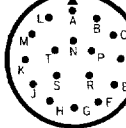
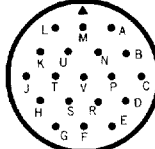
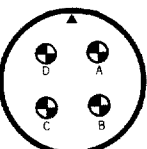
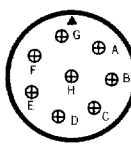
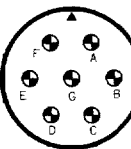


CE02-2A Series



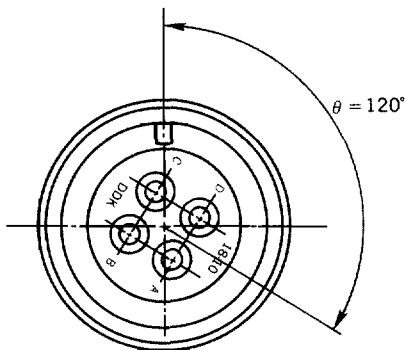
Insert Arrangements

The inserts in the CE02-2A series are identical to those in the DMS series. Only the pin inserts are shown below.

InsertNo.	18-10	18-12	20-15	20-29
Arrangements	 #12-4	 #16-6	 #12-7	 #16-17
InsertNo.	22-14	22-22	22-23	24-10
Arrangements	 #16-19	 #8-4	 #12-8	 #8-7

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

Alternate Insert Positions



Front View of Socket Insert
(for Model CE02-2A18-10PX)

Insert No.	Contact Size/ No of Contact	Non-standard key positions θ			
		W	X	X	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	#16/19	80°	110°	250°	280°
22-22P	#8/4	—	110°	250°	—
22-23P	#12/8	35°	—	250°	—
24-10P	#8/7	80°	—	—	280°

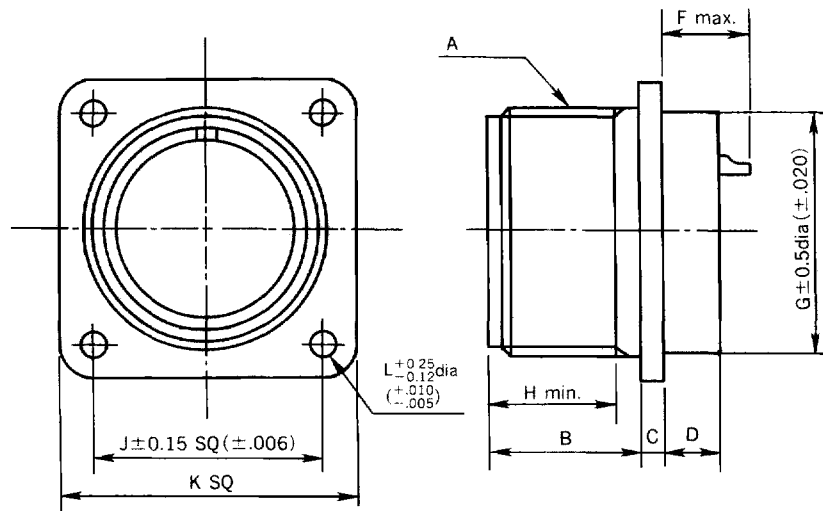
When more than one connector (of the same model) is used in a single device, the key positions should be changed as shown in order to prevent the wrong connectors from being coupled together.

CE02-2A Series



Dimensions

Unit : mm (inch)



Part Number	Threads A	B	C	D	F	G	H	J	K	L
CE02-2A18-10P	1 $\frac{1}{8}$ -18UNEF-2A	19.2 (.756)	3.35 (.132)	7.44 (.293)	13.8 (.543)	25.4 (1.000)	15.88 (.625)	26.97 (1.062)	34.9 (1.374)	3.05 (.120)
CE02-2A18-12P					11.5 (.453)					
CE02-2A20-15P	1 $\frac{1}{4}$ -18UNEF-2A	19.2 (.756)	3.35 (.132)	7.44 (.293)	13.8 (.543)	28.6 (1.126)	15.88 (.625)	29.36 (1.156)	38.1 (1.500)	3.05 (.120)
CE02-2A20-29P					11.5 (.453)					
CE02-2A22-14P	1 $\frac{3}{8}$ -18UNEF-2A	19.2 (.756)	3.35 (.132)	7.44 (.293)	11.5 (.543)	31.8 (1.252)	15.88 (.625)	31.75 (1.250)	41.3 (1.626)	3.05 (.120)
CE02-2A22-22P					16.9 (.665)					
CE02-2A22-23P					13.8 (.543)					
CE02-2A24-10P	1 $\frac{1}{2}$ -18UNEF-2A	20.8 (.819)	3.35 (.132)	7.44 (.293)	15.4 (.606)	34.9 (1.374)	15.88 (.625)	34.93 (1.375)	44.4 (1.748)	3.73 (.147)