RoHS2

Waterproof Circular Connectors Conforming to European Safety Standards

CE05 Series

DDK Ltd.

Conforming Standard
MIL-DTL-5015

Waterproof
IP 67

Lock Type
Threaded Coupling

Safety Standard
TÜV

OUTLINE

The industrial machinery including the machine tools which is exported to Europe has to conform with European safety standards since January, 1995. The CE05 series connectors, which offer full compatibility with MIL-C-5015, D/MS and CE02 series connectors, were developed to comply with this demand.

FEATURES

● European Safety Standard

CE05 series fully conforms with the connector standard of EN61984 (DIN VDE0627) which is in accordance with European standard of EN60204-1 for the safety of machinery and electrical equipment for machines. Our products have been approved by TÜV Rheinland.

● First Make –Last Break Ground Contact to Protect Circuit

Connectors have a premating ground contact having conductivity with the shell to protect a circuit.
The premating contact will mate with the mating half contact first on mating the connectors and will unmate last on unmating the connectors. The connectors provide a path for any stray voltage to be shunted to a safe ground avoiding harm to the operator and the voltage sensitive equipment.

● Water/Oil/Dust Structure – Class IP67 Protection

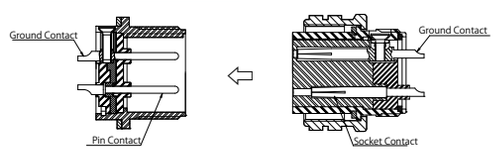
Class IP67 protection in the mated condition. CE05-2A receptacle connectors are IP67 rated in the unmated condition since these connectors have the pin contacts in the rubber inserts.

MATERIAL / FINISH

RoHS Compliant

Item	Material / Finish
Contact	Copper Alloy / Silver Plating
2A Style Pin Front Insert	Synthetic Rubber / Black
2A Style Pin Rear Insert	Synthetic Resin / Black
2A Style Socket Insert	Synthetic Resin / Black
6A Style Socket Insert	Synthetic Resin / Black
6A Style Pin Insert	Synthetic Resin / Black
Shell	Aluminum Alloy / Zinc Plating, Black Trivalent Chromium Treatment
Coupling Ring	Aluminum Alloy / Zinc Plating, Black Trivalent Chromium Treatment
Retaining Ring	Copper Alloy / Nickel Plating
Earth Rag	Copper Alloy / Silver Plating
Gasket	Synthetic Resin / Black

Receptacle Connector | Plug Connector



Certification Organization	Safety Standard	Certificatie Number
TÜV	DIN VDE 0627 〈EN61984〉	Refer to page 3
UL	UL 1977	E72124

TÜVRheinland CERTIFIED
Type Approved Safety Regular Production Surveillance
www.tuv.com ID 2000000000

SPECIFICATIONS

Rated Current	Contact Size	# 16	# 12	# 8	# 4
	Maximum Rating per Contact	13A	23A	46A	80A
Dielectric Withstanding Voltage	2000V ～ 3000V AC(r.m.s.) at 1minute				
Insulation Resistance	5000M Ω (Min.) at 500V DC				
Operating Temperature	-55˚C to 125˚C				
Waterproof Rating	IP67				

APPLICABLE CABLE SIZE

Contact		Applicable Cable Size		
Size	Minimum Bore of Solder Cup	AWG Size	Nominal Sectional Area	Maximum Conductor Dia.
# 16	φ 1.76	# 22 ～ # 16	1.25mm^2	1.6mm
# 12	φ 2.70	# 14 ～ # 12	3.50mm^2	2.5mm
# 8	φ 4.70	# 10 ～ # 8	8.00mm^2	4.5mm
# 4	φ 7.50	# 6 ～ # 4	22.00mm^2	7.0mm

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▶CE05 Part Number

Insert Arrangement	Part Number		Backshell Style	Waterproof Cable Clamp or Conduit
	Receptacle	Plug		
10SL-3	CE05-2A10SL-3PC-D	CE05-6A10SL-3SC-D(R1)	Without Backshell	Conduit
		CE05-6A10SL-3SC-D-BSS(R1)	Straight Backshell	CE3057-4A-1-D(R1)
		CE05-8A10SL-3SC-D-BAS(R1)	Angle Backshell	
14S-2	CE05-2A14S-2PD-D	CE05-6A14S-2SD-D(R1)	Without Backshell	Conduit
		CE05-6A14S-2SD-D-BSS(R1)	Straight Backshell	CE3057-6A-1-D(R1)
18-10	CE05-2A18-10PD-D	CE05-6A18-10SD-D(R1)	Without Backshell	Conduit
		CE05-6A18-10SD-D-BSS(R1)	Straight Backshell	CE3057-10A- □ -D(R1)
		CE05-8A18-10SD-D-BAS(R1)	Angle Backshell	
	CE05-2A18-10SD-D	CE05-6A18-10PD-D(R1)	Without Backshell	Conduit
		CE05-6A18-10PD-D-BSS(R1)	Straight Backshell	CE3057-10A- □ -D(R1)
		CE05-8A18-10PD-D-BAS(R1)	Angle Backshell	
18-12	CE05-2A18-12PD-D	CE05-6A18-12SD-D(R1)	Without Backshell	Conduit
		CE05-6A18-12SD-D-BSS(R1)	Straight Backshell	CE3057-10A- □ -D(R1)
		CE05-8A18-12SD-D-BAS(R1)	Angle Backshell	
20-4	CE05-2A20-4PD-D	CE05-6A20-4SD-D(R1)	Without Backshell	Conduit
		CE05-6A20-4SD-D-BSS(R1)	Straight Backshell	CE3057-12A- □ -D(R1)
		CE05-8A20-4SD-D-BAS(R1)	Angle Backshell	
	CE05-2A20-4SD-D	CE05-6A20-4PD-D(R1)	Without Backshell	Conduit
		CE05-6A20-4PD-D-BSS(R1)	Straight Backshell	CE3057-12A- □ -D(R1)
		CE05-8A20-4PD-D-BAS(R1)	Angle Backshell	
20-15	CE05-2A20-15PD-D	CE05-6A20-15SD-D(R1)	Without Backshell	Conduit
		CE05-6A20-15SD-D-BSS(R1)	Straight Backshell	CE3057-12A- □ -D(R1)
		CE05-8A20-15SD-D-BAS(R1)	Angle Backshell	
	CE05-2A20-15SD-D	CE05-6A20-15PD-D(R1)	Without Backshell	Conduit
		CE05-6A20-15PD-D-BSS(R1)	Straight Backshell	CE3057-12A- □ -D(R1)
		CE05-8A20-15PD-D-BAS(R1)	Angle Backshell	
20-18	CE05-2A20-18PDE-D	CE05-6A20-18SDE-D(R1)	Without Backshell	Conduit
		CE05-6A20-18SDE-D-BSS(R1)	Straight Backshell	CE3057-12A- □ -D(R1)
		CE05-8A20-18SDE-D-BAS(R1)	Angle Backshell	
22-22	CE05-2A22-22PD-D	CE05-6A22-22SD-D(R1)	Without Backshell	Conduit
		CE05-6A22-22SD-D-BSS(R1)	Straight Backshell	CE3057-12A- □ -D(R1)
		CE05-8A22-22SD-D-BAS(R1)	Angle Backshell	
	CE05-2A22-22SD-D	CE05-6A22-22PD-D(R1)	Without Backshell	Conduit
		CE05-6A22-22PD-D-BSS(R1)	Straight Backshell	CE3057-12A- □ -D(R1)
		CE05-8A22-22PD-D-BAS(R1)	Angle Backshell	
22-23	CE05-2A22-23PD-D	CE05-6A22-23SD-D(R1)	Without Backshell	Conduit
		CE05-6A22-23SD-D-BSS(R1)	Straight Backshell	CE3057-12A- □ -D(R1)
		CE05-8A22-23SD-D-BAS(R1)	Angle Backshell	
	CE05-2A22-23SD-D	CE05-6A22-23PD-D(R1)	Without Backshell	Conduit
		CE05-6A22-23PD-D-BSS(R1)	Straight Backshell	CE3057-12A- □ -D(R1)
		CE05-8A22-23PD-D-BAS(R1)	Angle Backshell	
24-10(D)	CE05-2A24-10PD-D	CE05-6A24-10SD-D(R1)	Without Backshell	Conduit
		CE05-6A24-10SD-D-BSS(R1)	Straight Backshell	CE3057-16A- □ -D(R1)
		CE05-8A24-10SD-D-BAS(R1)	Angle Backshell	
24-10(G)	CE05-2A24-10PG-D	CE05-6A24-10SG-D(R1)	Without Backshell	Conduit
		CE05-6A24-10SG-D-BSS(R1)	Straight Backshell	CE3057-16A- □ -D(R1)
		CE05-8A24-10SG-D-BAS(R1)	Angle Backshell	
24-11	CE05-2A24-11PGH-D	CE05-6A24-11SGH-D(R1)	Without Backshell	Conduit
		CE05-6A24-11SGH-D-BSS(R1)	Straight Backshell	CE3057-16A- □ -D(R1)
		CE05-8A24-11SGH-D-BAS(R1)	Angle Backshell	
32-17	CE05-2A32-17PD-D	CE05-6A32-17SD-D(R1)	Without Backshell	Conduit
		CE05-6A32-17SD-D-BSS(R1)	Straight Backshell	CE3057-20A- □ -D(R1)
		CE05-8A32-17SD-D-BAS(R1)	Angle Backshell	
	CE05-2A32-17SD-D	CE05-6A32-17PD-D(R1)	Without Backshell	Conduit
		CE05-6A32-17PD-D-BSS(R1)	Straight Backshell	CE3057-20A- □ -D(R1)
		CE05-8A32-17PD-D-BAS(R1)	Angle Backshell	

*If you use the conduit, please ask conduit supplier.

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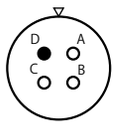
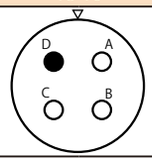
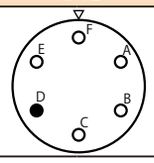
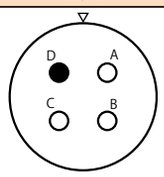
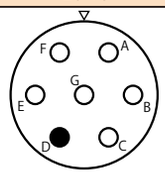
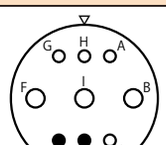
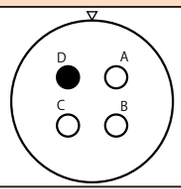
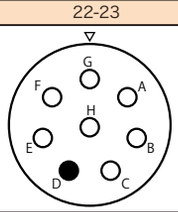
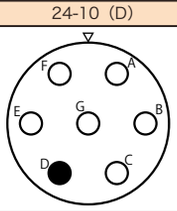
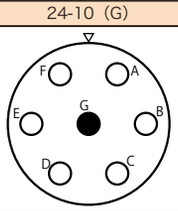
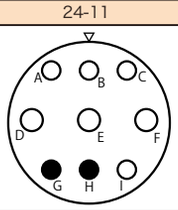
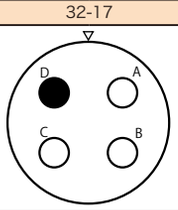
Insert Arrangement

Number of Contact	3		4		4		6	
Insert No.	10SL-3		14S-2		18-10		18-12	
Insert Arrangement								
Reverse Contact	n/a		n/a		Available		n/a	
Contact Size	# 16		# 16		# 12		# 16	
Ground Contact	C		D		D		D	
Rated Voltage (r.m.s.)	AC200V	AC320V	AC200V	AC400V	AC250V	AC500V	AC200V	AC400V
Overvoltage Category	III	II	III	II	III	II	III	II
Pollution Degree	3	2	3	2	3	2	3	2
Dielectric Withstanding Voltage (r.m.s.)	AC2,000V (r.m.s.)		AC2,000V (r.m.s.)		AC3,000V (r.m.s.)		AC2,000V (r.m.s.)	
Current Capacity	13A (29.2A)		13A (35.3A)		23A (62.5A)		13A (73.6A)	
TÜV Certificate No.	R50082122		R50082122		R50082065		R50082122	
UL Certificate No.	E72124		E72124		E72124		E72124	

Number of Contact	4		7	3 / 6	4	
Insert No.	20-4		20-15	20-18	22-22	
Insert Arrangement						
Reverse Contact	n/a		Available	n/a	Available	
Contact Size	# 12		# 12	# 12 # 16	# 8	
Ground Contact	D		D	D , E	D	
Rated Voltage (r.m.s.)	AC250V	AC400V	AC250V	AC250V	AC250V	AC500V
Overvoltage Category	III	II	III	III	III	II
Pollution Degree	3	2	3	3	3	2
Dielectric Withstanding Voltage (r.m.s.)	AC2,800V (r.m.s.)		AC2,000V (r.m.s.)	AC2,000V (r.m.s.)	AC3,000V (r.m.s.)	
Current Capacity	23A (62.5A)		23A (83.7A)	#12 : 23A #16 : 13A(67.6A)	46A (125.1A)	
TÜV Certificate No.	R50082065		R50082065	R50082065	R50082069	
UL Certificate No.	E72124		E72124	E72124	E72124	

Number of Contact	8	7	7	3 / 6	4	
Insert No.	22-23	24-10 (D)	24-10 (G)	24-11	32-17	
Insert Arrangement						
Reverse Contact	Available	n/a	n/a	n/a	Available	
Contact Size	# 12	# 8	# 8	# 8 # 12	# 4	
Ground Contact	D	D	G	G , H	D	
Rated Voltage (r.m.s.)	AC250V	AC250V	AC250V	AC250V	AC250V	AC500V
Overvoltage Category	III	III	III	III	III	II
Pollution Degree	3	3	3	3	3	2
Dielectric Withstanding Voltage (r.m.s.)	AC2,000V (r.m.s.)	AC2,000V (r.m.s.)	AC2,000V (r.m.s.)	AC2,000V (r.m.s.)	AC2,800V (r.m.s.)	
Current Capacity	23A (90.1A)	46A (167.4A)	46A (167.4A)	# 8 : 46A #12 : 23A(126.4A)	80A (217.6A)	
TÜV Certificate No.	R50082065	R50082069	R50082069	R50082069	R50082124	
UL Certificate No.	E72124	E72124	E72124	E72124	E72124	

∗ Front view of pin contact and standard key position

∗ The sign " ● " stands for the ground contact.

∗ Current capacity shows the maximum permitted current per contact.
Values in parenthesis show the total current capacities in each one of respective connectors.

∗ n/a stands for "not available".

∗ Overvoltage Category and Pollution Degree is prescribed in a EN standard.

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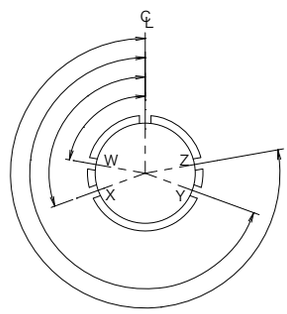
▶Alternate Insert Position

Insert No.	Number of Contact	Alternate Insert Position			
		W	X	Y	Z
10SL-3	3				
14S-2	4		120°	240°	
18-10	4		120°	240°	
18-12	6	80°			280°
20-4	4	45°	110°	250°	
20-15	7	80°			280°
20-18	9				
22-22	4		110°	250°	
22-23	8	35°			
24-10	7	80°			280°
24-11	9				
32-17	4	45°	110°	250°	

To avoid cross-mating problems in applications requiring the use of more than one connector of the same size and insert arrangement, alternate insert positions are available as indicated or as shown in the diagram below.



Front View of Pin Insert
(Rear View of Socket Insert)

☆ The safety standard, VDE, is applied only to the equipment which uses more than 60V DC. It is not applied to the insert arrangements of 20-29 or 22-14 which are used for signal transmission.
In the case of using 20-29 and 22-14 CE02 series and D/MS series are available.

▶Configuration

TÜVRheinland®

● Plug Type
Waterproof on Mated

● Conduit

Conduit Manufactures

- Nipolex http://www.nipolex.co.jp/
- DAIWA DENGYO http://www.daiwadengyo.co.jp/index.html
- NEOFLEX http://www.neoflex.co.jp/
- SANKEI http://www.sankei-ss.co.jp/aisatu.html

● Box Mount Receptacle
CE05-2A Individual
Waterproof

● Straight Plug Type
CE05-6A-D-BSS
Waterproof on Mated

● Angle Type
CE05-8A-D-BAS
Waterproof on Mated

● Waterproof Cable Clamp
CE3057- □□ A

■ Intermateable with D/MS series

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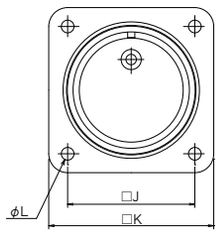
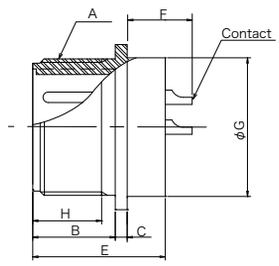
Unit : mm

▶ Box Mount Receptacle Connector

P/N : CE05-2A18-10PDYS-D
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Shell Style	2A : Box Mount Receptacle
② Shell Size	10SL, 14S, 18, 20, 22, 24 and 32
③ Insert Arrangement	Refer to page 3
④ Contact Style	P : Pin Contact S : Socket Contact
⑤ Ground Contact	Refer to page 3
⑥ Alternate Insert Position	Omit : Standard W, X, Y, Z : Refer to page 4
⑦ Gasket	Omit : Without Gasket S : With Gasket
⑧ Finish	D : Black Trivalent Chromium Treatment





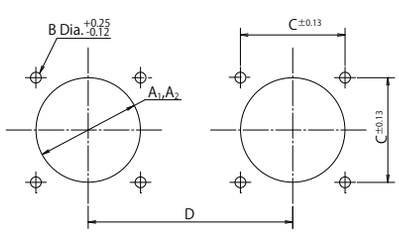
Note: When the ground contacts are 2 pcs., two letters which stands for the ground contact are filled in ⑤.

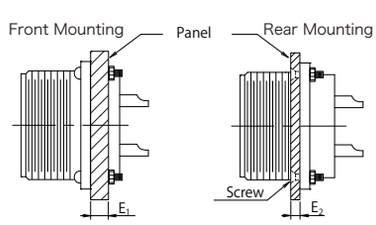
Note: Place a gasket on the rear of the flange. (Thickness: 1.6mm)

Part Number	A	B $^{+0.97}_{-0.50}$	C±0.35	E±0.5	F±1	G±0.5	H	J±0.12	K±0.5	φ L $^{+0.25}_{-0.12}$
CE05-2A10SL-3PC-D	5/8-24UNEF-2A	14.27	2.15	23.5	12.4	16.0	9.53	18.26	25.4	3.05
CE05-2A14S-2PD-D	7/8-20UNEF-2A	14.27	2.15	23.5	12.4	20.75	9.53	23.01	30.2	3.05
CE05-2A18-10PD-D	1 1/8-18UNEF-2A	19.05	2.75	30.5	14.2	27.0	15.88	26.97	34.9	3.05
CE05-2A18-10SD-D					18.6					
CE05-2A18-12PD-D					13.3					
CE05-2A20-4PD-D	1 1/4-18UNEF-2A	19.05	2.75	30.6	14.2	32.0	15.88	29.36	38.1	3.05
CE05-2A20-4SD-D					18.6					
CE05-2A20-15PD-D					14.2					
CE05-2A20-15SD-D					18.6					
CE05-2A20-18PDE-D					14.7					
CE05-2A22-22PD-D	1 3/8-18UNEF-2A	19.05	2.75	31.5	17.2	33.0	15.88	31.75	41.3	3.05
CE05-2A22-22SD-D					22.0					
CE05-2A22-23PD-D					14.3					
CE05-2A22-23SD-D					18.6					
CE05-2A24-10PD-D	1 1/2-18UNEF-2A	20.63	2.75	33.85	15.6	36.0	15.88	34.92	44.4	3.74
CE05-2A24-10PG-D					15.6					
CE05-2A24-11PGH-D					15.6					
CE05-2A32-17PD-D	2-18UNS-2A	22.23	3.35	38.15	20.2	48.0	15.88	44.45	56.9	4.30
CE05-2A32-17SD-D					20.62					

Note : CE05-2A □□ - □□ S □ -D has reverse style of the contacts which are the socket contacts.
The mating half connectors should have the pin contacts.

Panel Mounting Dimension





Shell Size	Front Mounting A1 (Min.)	Rear Mounting A2 (Min.)	B	C	D	E1 Max.	E2 Max.	Panel Mounting Screw(Ref)
10SL	16.8	16.6	3.05	18.26	47	10	3.0	M3
14S	21.7	23.0	3.05	23.01	53	10	3.0	M3
18	28.0	29.3	3.05	26.97	59	10	3.0	M3
20	33.0	32.5	3.05	29.36	62	10	3.0	M3
22	34.0	35.7	3.05	31.75	70	10	3.0	M3
24	37.0	38.8	3.75	34.92	73	10	3.0	M3.5
32	49.3	51.5	4.40	44.45	86	10	3.0	M4

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Unit : mm

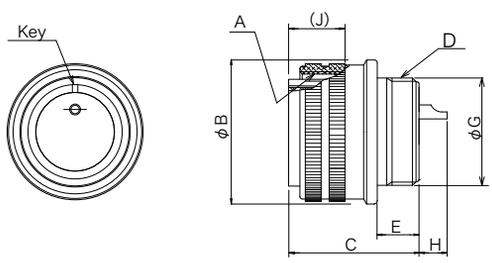
▶Plug Connector

P/N : CE05-6A18-10SDY-D-BSS(R1)

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Shell Style	6A : Straght Plug 8A : Angle Plug
② Shell Size	10SL, 14S, 18, 20, 22, 24 and 32
③ Insert Arrangement	Refer to page 3
④ Contact Style	P : Pin Contact S : Socket Contact
⑤ Ground Contact	Refer to page 3
⑥ Alternate Insert Position	Omit : Standard W. X. Y. Z : Refer to page 4
⑦ Finish	D : Black Trivalent Chromium Treatment
⑧ Backshell	Omit : Without Backshell BSS : Straight Backshell BAS : Angle Backshell

Note: When the ground contacts are 2 pcs., two letters which stands for the ground contact are filled in ⑤.



Part Number	A	$B^{+0}_{-0.38}$	C±1	D	E±0.5	$G^{+0.25}_{-0.25}$	H±0.1	(J)
CE05-6A10SL-3SC-D(R1)	5/8-24UNEF-2B	22.22	24.0	9/16-24UNEF-2A	7.50	12.5	5.6	13.2
CE05-6A14S-2SD-D(R1)	7/8-20UNEF-2B	28.57	24.0	3/4-20UNEF-2A	8.46	17.0	5.6	13.2
CE05-6A18-10SD-D(R1)	1 1/8-18UNEF-2B	34.13	33.7	1-20UNEF-2A	11.74	23.5	6.4	19.0
CE05-6A18-10PD-D(R1)							1.7	
CE05-6A18-12SD-D(R1)							5.6	
CE05-6A20-4SD-D(R1)	1 1/4-18UNEF-2B	37.28	34.1	1 1/8-18UNEF-2A	12.16	26.8	6.0	19.0
CE05-6A20-4PD-D(R1)							1.7	
CE05-6A20-15SD-D(R1)							6.0	
CE05-6A20-15PD-D(R1)							1.7	
CE05-6A20-18SDE-D(R1)							6.17	
CE05-6A22-22SD-D(R1)	1 3/8-18UNEF-2B	40.48	34.1	1 1/4-18UNEF-2A	14.65	29.9	9.3	19.0
CE05-6A22-22PD-D(R1)							4.2	
CE05-6A22-23SD-D(R1)							6.1	
CE05-6A22-23PD-D(R1)							1.3	
CE05-6A24-10SD-D(R1)	1 1/2-18UNEF-2B	43.63	36.6	1 3/8-18UNEF-2A	13.42	32.9	6.8	19.4
CE05-6A24-10SG-D(R1)							6.8	
CE05-6A24-11SGH-D(R1)							6.8	
CE05-6A32-17SD-D(R1)	2-18UNS-2B	56.33	37.0	1 7/8-16UN-2A	13.14	45.3	9.2	19.4
CE05-6A32-17PD-D(R1)							8.7	

Note 1 : CE05-6A □□ - □□ P □ -D has reverse style of the contacts which are the pin contacts. The mating half connectors should have the socket contacts.

Note 2 : Contact conduit manufacturers when you use conduits since no conduit is available from our product line.

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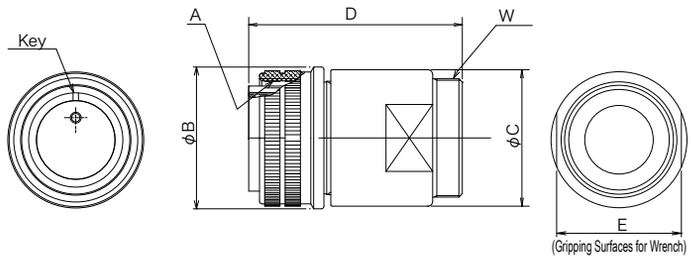
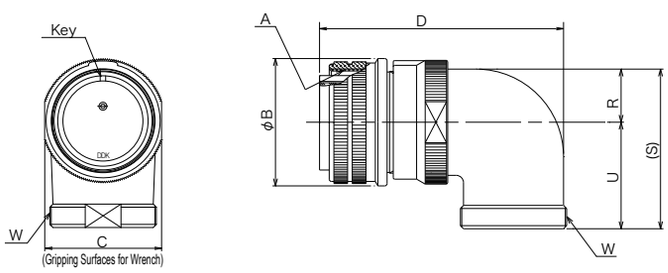
Unit : mm

Straight Plug



Part Number	A	$B^{+0}_{-0.38}$	C±0.8	D Max.	E	W
CE05-6A10SL-3SC-D-BSS(R1)	5/8-24UNEF-2B	22.22	18.6	40	17.9	5/8-24UNEF-2A
CE05-6A14S-2SD-D-BSS(R1)	7/8-20UNEF-2B	22.22	25.2	45	22.0	3/4-20UNEF-2A
CE05-6A18-10SD-D-BSS(R1)	1 1/8-18UNEF-2B	34.13	32.1	57	26.7	1-20UNEF-2A
CE05-6A18-10PD-D-BSS(R1)						
CE05-6A18-12SD-D-BSS(R1)						
CE05-6A20-4SD-D-BSS(R1)	1 1/4-18UNEF-2B	37.28	35.2	61	31.6	1 3/16-18UNEF-2A
CE05-6A20-4PD-D-BSS(R1)						
CE05-6A20-15SD-D-BSS(R1)						
CE05-6A20-15PD-D-BSS(R1)						
CE05-6A20-18SDE-D-BSS(R1)						
CE05-6A22-22SD-D-BSS(R1)	1 3/8-18UNEF-2B	40.48	38.3	61	32.4	1 3/16-18UNEF-2A
CE05-6A22-22PD-D-BSS(R1)						
CE05-6A22-23SD-D-BSS(R1)						
CE05-6A22-23PD-D-BSS(R1)						
CE05-6A24-10SD-D-BSS(R1)	1 1/2-18UNEF-2B	43.63	42.0	68	36.6	1 7/16-18UNEF-2A
CE05-6A24-10SG-D-BSS(R1)						
CE05-6A24-11SGH-D-BSS(R1)						
CE05-6A32-17SD-D-BSS(R1)	2-18UNS-2B	56.33	54.2	79	47.3	1 3/4-18UNS-2A
CE05-6A32-17PD-D-BSS(R1)						

Angle Plug



Part Number	A	$B^{+0}_{-0.38}$	D Max.	C	W	R±0.7	U±0.7	(S)±1
CE05-8A10SL-3SC-D-BAS(R1)	5/8-24UNEF-2B	22.22	47.8	20.3	5/8-24UNEF-2A	7.9	21.0	28.9
CE05-8A18-10SD-D-BAS(R1)	1 1/8-18UNEF-2B	34.13	69.5	30.0	1-20UNEF-2A	13.2	30.2	43.4
CE05-8A18-10PD-D-BAS(R1)								
CE05-8A18-12SD-D-BAS(R1)								
CE05-8A20-4SD-D-BAS(R1)	1 1/4-18UNEF-2B	37.28	75.5	33.6	1 3/16-18UNEF-2A	15.0	33.3	48.3
CE05-8A20-4PD-D-BAS(R1)								
CE05-8A20-15SD-D-BAS(R1)								
CE05-8A20-15PD-D-BAS(R1)								
CE05-8A20-18SDE-D-BAS(R1)								
CE05-8A22-22SD-D-BAS(R1)	1 3/8-18UNEF-2B	40.48	75.5	36.2	1 3/16-18UNEF-2A	16.3	33.3	49.6
CE05-8A22-22PD-D-BAS(R1)								
CE05-8A22-23SD-D-BAS(R1)								
CE05-8A22-23PD-D-BAS(R1)								
CE05-8A24-10SD-D-BAS(R1)	1 1/2-18UNEF-2B	43.63	86.3	40.0	1 7/16-18UNEF-2A	18.2	36.5	54.7
CE05-8A24-10SG-D-BAS(R1)								
CE05-8A24-11SGH-D-BAS(R1)								
CE05-8A32-17SD-D-BAS(R1)	2-18UNS-2B	56.33	93.5	52.8	1 3/4-18UNS-2A	24.6	44.5	69.1
CE05-8A32-17PD-D-BAS(R1)								

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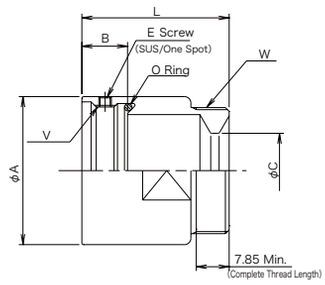
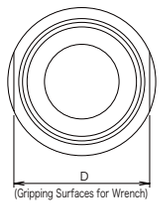
Unit : mm

▶Waterproof Straight Backshell

P/N : CE05-18BS-S-D(R1)
① ②③ ④ ⑤

① Shell Size	10SL, 14S, 18, 20, 22, 24 and 32
② Model	B : Backshell
③ Style	S : Straight
④ Waterproof	S : Waterproof
⑤ Finish	D : Black Trivalent Chromium Treatment





MATERIAL/FINISH

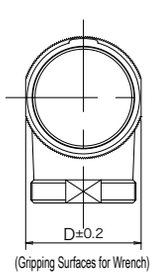
Aluminum Alloy / Black Trivalent Chromium Treatment

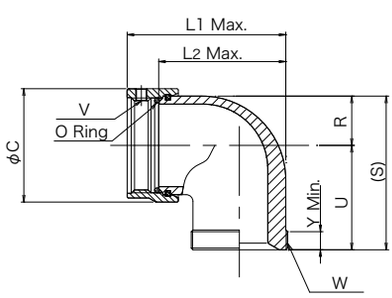
Shell Size	Part Number	L	A	B	C	D	E	V	W
10SL	CE05-10SLBS-S-D(R1)	20.0	18.6	6.5	6.6	17.9	M2	9/16-24UNEF-2B	5/8-24UNEF-2A
14S	CE05-14SBS-S-D(R1)	24.4	25.2	7.3	10.0	22.0	M2	3/4-20UNEF-2B	3/4-20UNEF-2A
18	CE05-18BS-S-D(R1)	31.0	32.1	10.5	16.3	26.7	M3	1-20UNEF-2B	1-20UNEF-2A
20	CE05-20BS-S-D(R1)	35.0	35.2	10.9	17.8	31.6	M3	1 1/8-18UNEF-2B	1 3/16-18UNEF-2A
22	CE05-22BS-S-D(R1)	35.0	38.2	10.9	17.8	32.4	M4	1 1/4-18UNEF-2B	1 3/16-18UNEF-2A
24	CE05-24BS-S-D(R1)	40.5	42.0	12.2	21.0	36.6	M4	1 3/8-18UNEF-2B	1 7/16-18UNEF-2A
32	CE05-32BS-S-D(R1)	46.0	54.2	11.7	25.8	47.3	M4	1 7/8-16UN-2B	1 3/4-18UNS-2A

▶Waterproof Angle Backshell

P/N : CE-18BA-S-D(R1)
① ②③ ④ ⑤

① Shell Size	10SL, 18, 20, 22, 24 and 32
② Model	B : Backshell
③ Style	A : Angle
④ Waterproof	S : Waterproof
⑤ Finish	D : Black Trivalent Chromium Treatment





MATERIAL/FINISH

Aluminum Alloy / Black Trivalent Chromium Treatment

Shell Size	Part Number	L1	L2	C	D	R	U	(S)	V	W	Y	Set Screw
10SL	CE-10SLBA-S-D(R1)	30.6	22.5	21.7	20.3	7.9	21.0	(28.9)	9/16-24UNEF-2B	5/8-24UNEF-2A	7.5	M2
18	CE-18BA-S-D(R1)	44.6	34.0	32.4	30.0	13.2	30.2	(43.4)	1-20UNEF-2B	1-20UNEF-2A	7.5	M3
20	CE-20BA-S-D(R1)	50.5	39.6	36.0	33.6	15.0	33.3	(48.3)	1 1/8-18UNEF-2B	1 3/16-18UNEF-2A	7.5	M3
22	CE-22BA-S-D(R1)	50.5	39.6	38.6	36.2	16.3	33.3	(49.6)	1 1/4-18UNEF-2B	1 3/16-18UNEF-2A	7.5	M4
24	CE-24BA-S-D(R1)	60.1	47.9	42.4	40.0	18.2	36.5	(54.7)	1 3/8-18UNEF-2B	1 7/16-18UNEF-2A	7.5	M4
28	CE-28BA-S-D(R1)	60.9	47.9	49.5	46.4	21.3	36.5	(57.8)	1 5/8-18UNEF-2B	1 7/16-18UNEF-2A	7.5	M4
32	CE-32BA-S-D(R1)	69.1	55.1	55.3	52.8	24.6	44.5	(69.1)	1 7/8-16UN-2B	1 3/4-18UNEF-2A	8.5	M4

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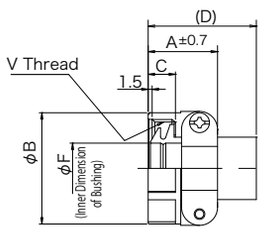
Unit : mm

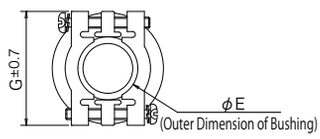
▶Waterproof Cable Clamp

P/N : CE3057-10A-1-D(R1)

① ② ③

① Clamp Size	4A, 10A, 12A, 16A and 20A
② Bushing Size	Rubber Bushing (Refer to the applicable cable size)
③ Finish	D : Black Trivalent Chromium Treatment





MATERIAL/FINISH

MATERIAL	Material	Finish
Cable Clamp Body and Metal Fastener	Aluminum Alloy	Black Trivalent Chromium Treatment
Bushing	Synthetic Rubber	Black

CE3057- □□ A- □ -D is a waterproof cable clamp for use with a plug. The cable clamp has a waterproof rubber bushing. So make sure to use a cabtyre cable meeting one of the applicable cable size ranges as shown below. The cable clamp should be used together with a waterproof backshell.

※ Depending on the cable used, the contact between bushing and cable may be discolored.

Part Number	Applicable Shell Size	A	B	C	(D)	E	F	G	V	Bushing P/N	Applicable Cable Size
CE3057-4A-1-D(R1)	10SL,12S	20.62	20.6	10.31	(41.3)	8.0	5.6	22.2	5/8-24UNEF-2B	CE3420-4-1(R1)	φ 3.6～φ 5.6
CE3057-6A-1-D(R1)	14S	22.20	24.6	10.31	(41.3)	10.8	9.0	27.0	3/4-20UNEF-2B	CE3420-6-1(R1)	φ 7.0～φ 9.0
CE3057-8A-1-D(R1)	16S,16	23.83	27.8	10.31	(41.3)	14.0	12	29.4	7/8-20UNEF-2B	CE3420-8-1(R1)	φ 10.0～φ 12.0
CE3057-8A-2-D(R1)							10.5			CE3420-8-2(R1)	φ 8.5～10.5
CE3057-10A-1-D(R1)	18	23.83	30.1	10.31	(41.3)	15.8	14.1	31.7	1-20UNEF-2B	CE3420-10-1(R1)	φ 10.5～φ 14.1
CE3057-10A-2-D(R1)							11			CE3420-10-2(R1)	φ 8.5～φ 11.0
CE3057-10A-3-D(R1)							8.7			CE3420-10-3(R1)	φ 6.5～φ 8.7
CE3057-12A-1-D(R1)	20 22	23.83	35	10.31	(41.3)	19.0	16	37.3	1 3/16-18UNEF2B	CE3420-12-1(R1)	φ 12.5～φ 16.0
CE3057-12A-2-D(R1)							13			CE3420-12-2(R1)	φ 9.5～φ 13.0
CE3057-12A-3-D(R1)							10			CE3420-12-3(R1)	φ 6.8～φ 10.0
CE3057-12A-7-D(R1)							17			CE3420-12-7(R1)	φ 14.5～φ 17.0
CE3057-16A-1-D(R1)	24 28	26.19	42.1	10.31	(41.3)	23.8	19.1	42.9	1 7/16-18UNEF-2B	CE3420-16-1(R1)	φ 15.0～φ 19.1
CE3057-16A-2-D(R1)							15.5			CE3420-16-2(R1)	φ 13.0～φ 15.5
CE3057-16A-4-D(R1)							21.5			CZY005-GB-3(R1)	φ 19.1～φ 21.5
CE3057-16A-6-D(R1)							20			CE3420-16-6(R1)	φ 18.5～φ 20.0
CE3057-16A-7-D(R1)							13.5			CE3420-16-7(R1)	φ 11.5～φ 13.5
CE3057-16A-8-D(R1)							12.5			CZY005-GB-6(R1)	φ 10.5～φ 12.5
CE3057-20A-1-D(R1)	32	27.79	51.6	11.91	(43.0)	32.0	23.8	51.6	1 3/4-18UNS-2B	CE3420-20-1(R1)	φ 22.0～φ 23.8
CE3057-20A-2-D(R1)							26.6			CE3420-20-2(R1)	φ 24.0～φ 26.6
CE3057-20A-3-D(R1)							22.5			CZY005-GB-5(R1)	φ 21.0～φ 22.5

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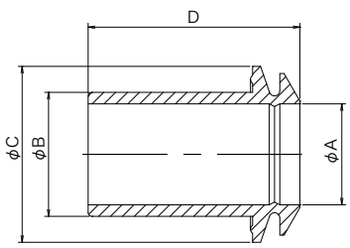
Unit : mm

▶ Waterproof Rubber Bushing

CE3420-10-1(R1)
① ②



① Cable Clamp Size	4, 6, 8, 10, 12, 16 and 20
② Bushing Size	Refer to table 1.

MATERIAL

Synthetic Rubber(Black)

CE3420- □□ A- □ is a rubber bushing which combines with a cable clamp(CE3057- □□ A- □) to hold the cable for waterproof.

※ Depending on the cable used, the contact between bushing and cable may be discolored.

Table 1

Part Number	φ A	φ B	φ C	D	Friction Washer
CE3420-4-1(R1)	5.6	7.5	12.9	38.3	MS3057-4W
CE3420-6-1(R1)	9.0	10.9	15.7	36.4	MS3057-6W
CE3420-8-1(R1)	12.0	14.0	19.1	37.5	3057-8W
CE3420-8-2(R1)	10.5				
CE3420-10-1(R1)	14.1	15.5	22.2	38.5	MS3057-10W
CE3420-10-2(R1)	11.0				
CE3420-10-3(R1)	8.7				
CE3420-12-1(R1)	16.0	18.6	26.9	39.3	MS3057-12W
CE3420-12-2(R1)	13.0				
CE3420-12-3(R1)	10.0				
CE3420-12-7(R1)	17.0				
CE3420-16-1(R1)	19.1	23.4	33.2	40.0	MS3057-16W
CE3420-16-2(R1)	15.5				
CE3420-16-6(R1)	20.0				
CE3420-16-7(R1)	13.5				
CE3420-20-1(R1)	23.8	31.4	40.5	41.0	MS3057-20W
CE3420-20-2(R1)	26.6			40.2	

◎ Specifications and/or dimensions in this catalog are subject to change without notice.
Your checking the latest specifications with our drawings would be highly appreciated.

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