

Waterproof Circular Connectors (MIL-DTL-5015 Compatible)

RoHS2

D/MS (D263) Series [For hook-up Receptacle]

Fujikura

◆ OUTLINE

D/MS(D263) series is a waterproof circular hook-up Receptacle which is intermatable with D/MS(D190) plug connector. It is suitable for the industrial equipments which need to be moistureproof or waterproof.



◆ FEATURES

- Compatible with MIL-DTL-5015 and intermatable with D/MS series(CE02,CE05)
- The insert assembly is common to D/MS A/B series. 71 sorts of insert arrangements are available.
- Mating with the box receptacle connector D/MS3106A(D190), it will be waterproof rating IP67.

◆ SPECIFICATIONS

Rated Voltage

Service Rating	Rated Voltage(V)		Minimum Length between Each Contacts	Minimum Creepage Distance
	DC	AC(r.m.s.)		
INST	250	200	-	1.6mm
A	700	500	1.6mm	3.2mm
D	1250	900	3.2mm	4.8mm
E	1750	1250	4.8mm	6.4mm

Rated Current

Contact Size	Pin Contact Diameter	Current Capacity per Contact
#16	φ 1.6mm	13A
#12	φ 2.4mm	23A
#8	φ 3.6mm	46A
#4	φ 5.7mm	80A
#0	φ 9.1mm	150A

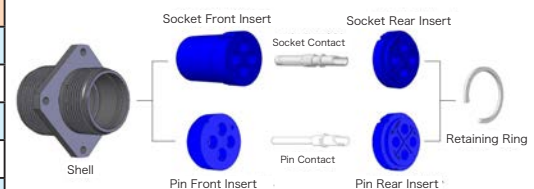
Applicable Cable Size

Contact		Applicable Cable Size		
Size	Minimum Bore of Solder Cup	AWG	Nominal Section Area	Maximum Conductor Dia.
#16	1.76 (mm)	16 - 2	1.25mm ²	1.6mm
#12	2.85 (mm)	12 - 4	3.50mm ²	2.5mm
#8	5.21 (mm)	8 - 10	8.00mm ²	4.5mm
#4	8.33 (mm)	4 - 6	22.00mm ²	7.0mm
#0	11.7 (mm)	0 - 2	50.00mm ²	11.0mm

◆ MATERIAL / FINISH



Parts	Material / Finish
Contact	Copper Alloy/Silver Plating
Retaining Ring	Copper Alloy/Nickel Plating
Front Insert	Diallyl Phthalate Resin(Blue)
Rear Insert	Diallyl Phthalate Resin(Blue)
Shell	Aluminum Alloy/Zinc Plating, Trivalent Chromium Finish(Black)

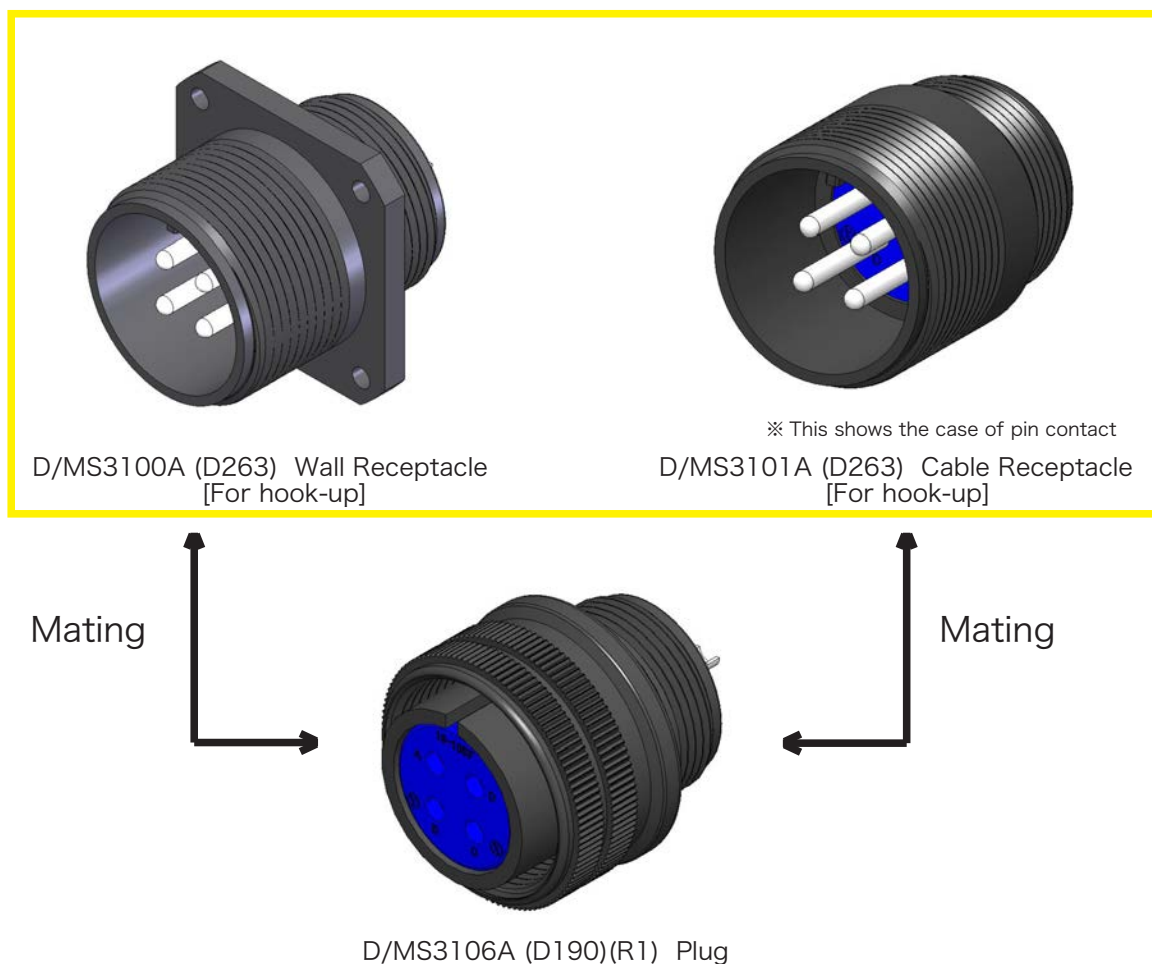


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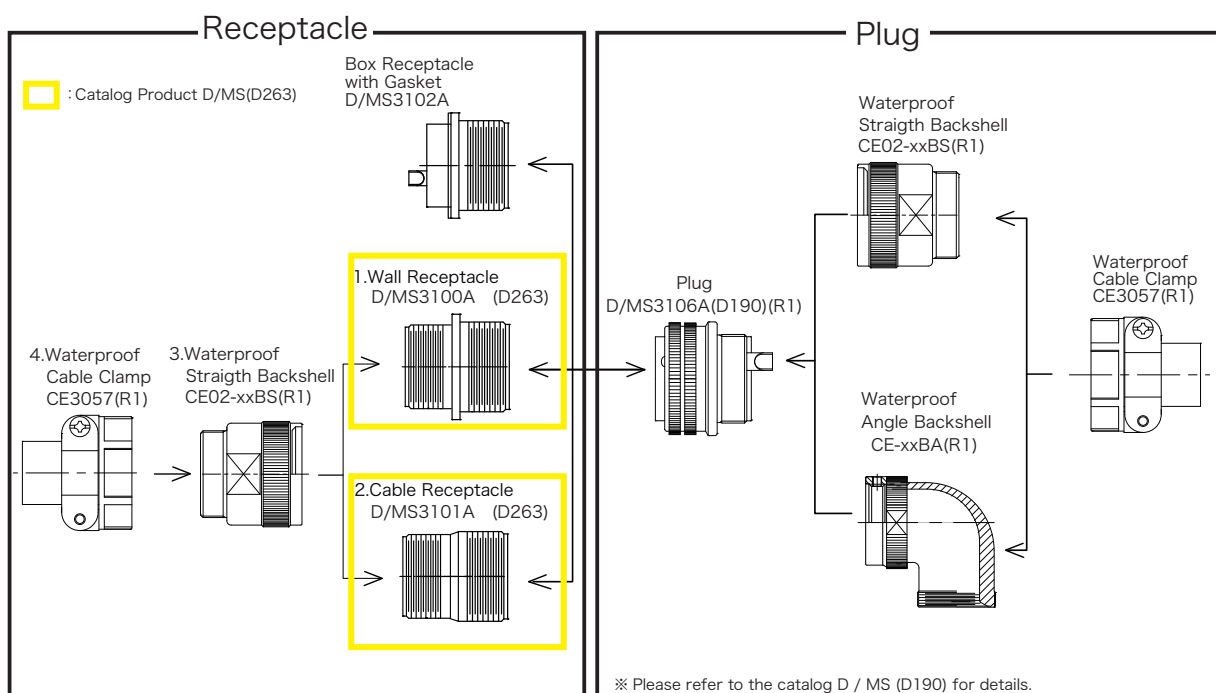
▶ Mating Combination

Connector Overview

 : Catalog Product D/MS(D263)



Waterproof parts combination

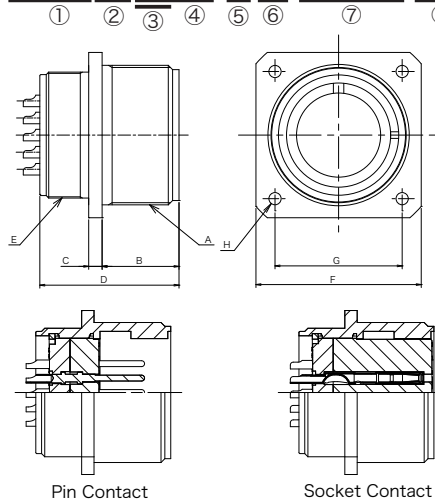


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▶ For hook-up Receptacle

1. D/MS3100A20-29PW (D263)(62)

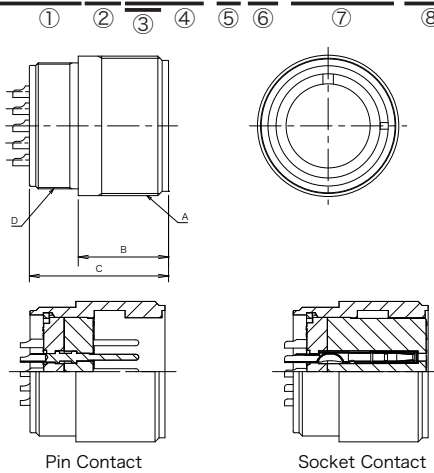


① Connector Style	3100 : Wall Receptacle 3101 : Cable Receptacle
② Connector Type	A : Integrated Shell Type
③ Shell Size	12S, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36
④ Insert Number	See Contact Arrangement (P.6)
⑤ Contact Style	P : Pin Contact S : Socket Contact
⑥ Alternate Insert Key Position	Omit : Standard Key W, X, Y, Z : See Alternate Insert Position (P.11)
⑦ Deviation	(D263) : Waterproof, without backshell
⑧ Contact Surface Finish	Omit : Standard Product (Ag Plating) (62) : Au (0.5 μm) over Ni plating.

Shell Size	A	B±0.5	C±0.5	D±0.5	E	F±0.5	G±0.3	H ^{+0.25 -0.12}
12S	3/4-20UNEF-2A	14.48	2.0	24.43	11/16-24UNEF-2A	27.8	20.62	3.05
14S	7/8-20UNEF-2A	14.48	2.0	24.34	3/4-20UNEF-2A	30.2	23.02	3.05
16S	1-20UNEF-2A	14.48	2.0	23.81	7/8-20UNEF-2A	32.54	24.6	3.05
16	1-20UNEF-2A	19.25	3.35	33.72	7/8-20UNEF-2A	32.54	24.6	3.05
18	1 1/8-18UNEF-2A	19.25	3.35	35.29	1-20UNEF-2A	34.92	26.99	3.05
20	1 1/4-18UNEF-2A	19.25	3.35	34.8	1 1/8-18UNEF-2A	38.1	29.37	3.05
22	1 3/8-18UNEF-2A	19.25	3.35	34.75	1 1/4-18UNEF-2A	41.27	31.75	3.05
24	1 1/2-18UNEF-2A	20.8	3.35	36.58	1 3/8-18UNEF-2A	44.45	34.93	3.61
28	1 3/4-18UNS-2A	20.8	3.35	37.03	1 5/8-18UNEF-2A	50.8	39.67	3.61
32	2-18UNS-2A	22.4	3.35	36.95	1 7/8-16UN-2A	56.9	44.45	4.27
36	2 1/4-16UN-2A	22.4	3.35	37.44	2 1/8-16UN-2A	63.5	49.2	4.4

※ Shell size: Nominal dia. of coupling part screw (Inch×16)
e.g. 1 1/8-18UNEF-2A
1 1/8×16=18
※ UNEF, UNS, UN: Unified screw
2A: male screw of 2nd grade

2. D/MS3101A20-29SW (D263)(62)



Shell Size	A	B±0.8	C±0.5	D
12S	3/4-20UNEF-2A	16.48	24.43	11/16-24UNEF-2A
14S	7/8-20UNEF-2A	16.5	24.34	3/4-20UNEF-2A
16S	1-20UNEF-2A	16.47	24.97	7/8-20UNEF-2A
16	1-20UNEF-2A	22.6	33.72	7/8-20UNEF-2A
18	1 1/8-18UNEF-2A	23.59	35.29	1-20UNEF-2A
20	1 1/4-18UNEF-2A	22.6	34.8	1 1/8-18UNEF-2A
22	1 3/8-18UNEF-2A	22.55	34.75	1 1/4-18UNEF-2A
24	1 1/2-18UNEF-2A	24.15	36.58	1 3/8-18UNEF-2A
28	1 3/4-18UNS-2A	24.15	36.65	1 5/8-18UNEF-2A
32	2-18UNS-2A	25.75	36.95	1 7/8-16UN-2A
36	2 1/4-16UN-2A	25.77	36.69	2 1/8-16UN-2A

※ Shell size: Nominal dia. of coupling part screw (Inch×16)
e.g. 1 1/8-18UNEF-2A
1 1/8×16=18
※ UNEF, UNS, UN: Unified screw
2A: male screw of 2nd grade

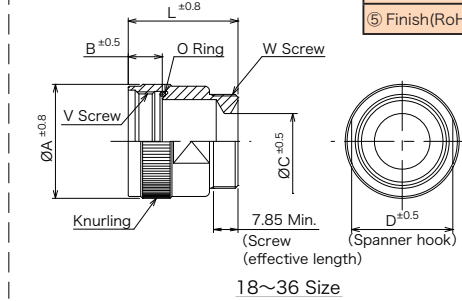
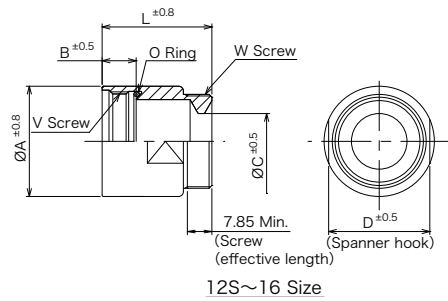
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Waterproof Straight Backshell

3. CE02-18BS-S-D(R1)

① ② ③ ④ ⑤



① Shell Size	10SL, 12S, 14S, 16, 18, 20, 22, 24, 28, 32, 36
② Shell Type	B : BackShell
③ Type	S : Straight
④ Waterproof	S : IP67
⑤ Finish(RoHS)	Trivalent Chromium Finish (Black)

Material/Finish

Aluminum Alloy / Trivalent Chromium Finish (Black)

シェルサイズ	品名	L	A	B	C	D	V	W
12S	CE02-12SBS-S-D(R1)	20.0	21.6	6.5	6.6	20.8	1 1/16-24UNEF-2B	5/8-24UNEF-2A
14S	CE02-14SBS-S-D(R1)	25.0	22.3	7.38	9.8	20.4	3/4-20UNEF-2B	3/4-20UNEF-2A
16, 16S	CE02-16BS-S-D(R1)	28.0	26.5	6.98	13.0	23.4	7/8-20UNEF-2B	7/8-20UNEF-2A
18	CE02-18BS-S-D(R1)	31.0	30.4	10.5	16.22	26.7	1-20UNEF-2B	1-20UNEF-2A
20	CE02-20BS-S-D(R1)	35.0	34.9	10.9	17.8	31.6	1 1/8-18UNEF-2B	1 3/16-18UNEF-2A
22	CE02-22BS-S-D(R1)	35.0	36.4	10.9	17.8	32.4	1 1/4-18UNEF-2B	1 3/16-18UNEF-2A
24	CE02-24BS-S-D(R1)	40.5	40.0	12.2	21.0	36.6	1 3/8-18UNEF-2B	1 7/16-18UNEF-2A
28	CE02-28BS-S-D(R1)	45.0	47.2	11.9	21.0	40.0	1 5/8-18UNEF-2B	1 7/16-18UNEF-2A
32	CE02-32BS-S-D(R1)	50.0	51.4	10.0	25.8	47.0	1 7/8-16UN-2B	1 3/4-18UNS-2A
36	CE02-36BS-S-D(R1)	55.0	58.4	10.0	33.8	53.1	2 1/8-16UN-2B	2-18UNS-2A

※ Shell size: Nominal dia. of coupling part screw (Inch×16)

e.g. 1 1/8-18UNEF-2A

1 1/8×16=18

※ UNEF, UNS, UN: Unified screw

2A: male screw of 2nd grade

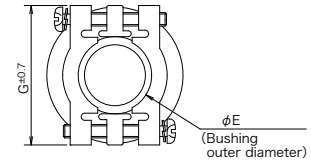
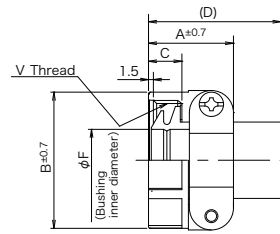
2B: female screw of 2nd grade

Waterproof Cable Clamp (with Rubber Bushing)

4. CE3057-10A-1-D(R1)

① ② ③

① Clamp Size	4A, 10A, 12A, 16A, 20A, 24A
② Bushing Size	Refer to the Applicable Cable
③ Finish(RoHS))	Trivalent Chromium Finish (Black)



Shell Size	Part Number	Full Length A	Outer diameter B	Effective screw length C	(D)	E	F	G	Mounting screws V	Bushing P/N	Applicable Cable (Note 1)
12S	CE3057-4A-1-D(R1)	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
14S	CE3057-6A-1-D(R1)	22.20	24.6	10.31	(41.3)	10.8	9.0	27.0	3/4-20UNEF-2B	CE3420-6-1(R1)	φ 7 ~ φ 9
16S, 16	CE3057-8A-1-D(R1)	23.83	27.8	10.31	(41.3)	14.0	12.0	29.4	7/8-20UNEF-2B	CE3420-8-1(R1)	φ 10 ~ φ 12
	CE3057-8A-2-D(R1)						10.5			CE3420-8-2(R1)	φ 8.5 ~ φ 10.5
18	CE3057-10A-1-D(R1)	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)						11.0			CE3420-10-2(R1)	φ 8.5 ~ φ 11
	CE3057-10A-3-D(R1)						8.7			CE3420-10-3(R1)	φ 6.5 ~ φ 8.7
20 22	CE3057-12A-1-D(R1)	23.83	35.0	10.31	(41.3)	19.0	16.0	37.3	1 3/16-18UNEF-2B	CE3420-12-1(R1)	φ 12.5 ~ φ 16
	CE3057-12A-2-D(R1)						13.0			CE3420-12-2(R1)	φ 9.5 ~ φ 13
	CE3057-12A-3-D(R1)						10.0			CE3420-12-3(R1)	φ 6.8 ~ φ 10
	CE3057-12A-7-D(R1)						17.0			CE3420-12-7(R1)	φ 14.5 ~ φ 17
24 28	CE3057-16A-1-D(R1)	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 ~ φ 19.1
	CE3057-16A-2-D(R1)						15.5			CE3420-16-2(R1)	φ 13 ~ 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)						20.0			CE3420-16-6(R1)	φ 18.5 ~ φ 20
	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
32	CE3057-20A-1-D(R1)	27.79	51.6	11.91	(43.0)	32.8	23.8	51.6	1 3/4-18UNS-2B	CE3420-20-1(R1)	φ 22 ~ φ 23.8
	CE3057-20A-2-D(R1)						26.6			CE3420-20-2(R1)	φ 24 ~ φ 26.6
	CE3057-20A-3-D(R1)						22.5			CZY005-GB-5(R1)	φ 21 ~ φ 22.5
36	CE3057-24A-1-D(R1)	29.40	56.4	13.50	(45.8)	34.6	32.5	58.0	2-18UNS-2B	CE3420-24-1(R1)	φ 30 ~ φ 32.5
	CE3057-24A-2-D(R1)						29.6			CE3420-24-2(R1)	φ 27.5 ~ φ 29.6

Note1: Please make sure to use the cable which is within the specification of the applicable cable listed above.

Please use the cable clamp together with the waterproof backshell.

Note2: Depending on the cable used, the contact between bushing and cable may be discolored.

※ Shell size: Nominal dia. of coupling part screw (Inch×16)

e.g. 1 1/8-18UNEF-2A

1 1/8×16=18

※ UNEF, UNS, UN: Unified screw

2B: female screw of 2nd grade

 Insert Number

Number of Contact	Insert Number (Shellsize-No.)	Service Rating	Contact Size				
			#0	#4	#8	#12	#16
1	20-2	D	1				
2	12S-3	A					2
	14S-9	A					2
	20-23	A			2		
	32-5	D	2				
3	14S-1	A					3
	14S-7	A					3
	16S-5	A					3
	16-10	A				3	
	18-5	D				2	1
	18-21	A				3	
	18-22	D					3
	22-2	D			3		
	28-6	D		3			
	36-4	D	1				
		A	2				
	14S-2	INST					4
4	18-4	D					4
	18-10	A				4	
	20-4	D				4	
	22-10	E					4
	22-22	A			4		
	24-22	D			4		
	32-17	D		4			
	36-5	A	4				
5	14S-5	INST					5
	16S-8	A					5
	18-11	A				5	
	18-20	A					5
	32-1	E				1	
		D	2			2	
	32-2	E		3			2
6	14S-6	INST					6
	18-12	A					6
	20-17	A				5	1
	20-22	A			3		3
	36-3	D	3			3	
7	16S-1	A					7
	20-15	A				7	
	22-28	A				7	
	24-2	D				7	
	24-10	A			7		
	28-10	D				1	
		A		2	2	2	
8	18-8	A				1	7
	20-7	D					4
		A					4
	22-23	D				1	
		A				7	

Number of Contacts	Insert Number (Shellsize-No.)	Service Rating	Contact Size				
			#0	#4	#8	#12	#16
9	20-16	A				2	7
	20-18	A				3	6
	24-11	A			3	6	
10	18-1	A					4
		INST					6
11	18-19	A					10
	24-20	D				2	9
14	20-27	A					14
	22-19	A					14
	28-20	A				10	4
	32-9	D		2			12
16	24-5	A					16
	24-7	A				2	14
17	20-29	A					17
19	22-14	A					19
20	28-16	A					20
22	28-11	A				4	18
24	24-28	INST					24
26	28-12	A					26
30	32-8	A				6	24
31	36-9	A		1	2	14	14
35	28-15	A					35
		A				7	24
		INST					4
37	28-21	A					37
48	36-10	A					48
52	32-414	A					52
54	32A-10	A					54
73	36-73	A					73

※ Insert Number : Shel size - sequential number

(Numbers determined by the standard)

※ Service Rating : Rated Voltage (Determined by the standard)

Service Rating	INST	A	D	E
Rated Voltage AC(r. m. s.)	200	500	900	1,250
Rated Voltage DC	250	700	1,200	1,750

▶コンタクト配列一覧

Number of Contact	1 Contact	2 Contacts			
Insert Number (Shellsize-No.)	20-2	12S-3	14S-9	20-23	32-5
Contact Arrangement (View from mating pin)					
Contact Size (Size×Number of Contact)	#0×1 Contact	#16×2 Contacts	#16×2 Contacts	#8×2 Contacts	#0×2 Contacts
Service Rating	D	A	A	A	D
Rated Current	150A	13A	13A	46A	150A

Number of Contact	3 Contacts					
Insert Number (Shellsize-No.)	14S-1	14S-7	16S-5	16-10	18-5	18-21
Contact Arrangement (View from mating pin)						
Contact Size (Size×Number of Contact)	#16×3 Contacts	#16×3 Contacts	#16×3 Contacts	#12×3 Contacts	#12×2 Contacts #16×1 Contact	#12×3 Contacts
Service Rating	A	A	A	A	D	A
Rated Current	13A	13A	13A	23A	#12 : 23A #16 : 13A	23A

Number of Contact	3 Contacts			
Insert Number (Shellsize-No.)	18-22	22-2	28-6	36-4
Contact Arrangement (View from mating pin)				
Contact Size (Size×Number of Contact)	#16×3 Contacts	#8×3 Contacts	#4×3 Contacts	#0×3 Contacts
Service Rating	D	D	D	D(A) A(BC)
Rated Current	13A	46A	80A	150A

※ Insert Number : Shell size - sequential number

(Numbers determined by the standard)

※ Service Rating : Rated Voltage (Determined by the standard)

Service Rating	INST	A	D	E
Rated Voltage AC(r. m. s.)	200	500	900	1,250
Rated Voltage DC	250	700	1,200	1,750

Contact Size Symbol

	#16	#12	#8	#4	#0
Max Current / Contact	13	23	46	80	150

▲ : Shell mating key

▶コンタクト配列一覧

Number of Contact	4 Contacts					
Insert Number (Shellsize-No.)	14S-2	18-4	18-10	20-4	22-10	22-22
Contact Arrangement (View from mating pin)						
Contact Size (Size×Number of Contact)	#16×4 Contacts	#16×4 Contacts	#12×4 Contacts	#12×4 Contacts	#16×4 Contacts	#8×4 Contacts
Service Rating	INST	D	A	D	E	A
Rated Current	13A	13A	23A	23A	13A	46A

Number of Contact	4 Contacts		
Insert Number (Shellsize-No.)	24-22	32-17	36-5
Contact Arrangement (View from mating pin)			
Contact Size (Size×Number of Contact)	#8×4 Contacts	#4×4 Contacts	#0×4 Contacts
Service Rating	D	D	A
Rated Current	46A	80A	150A

Number of Contact	5 Contacts					
Insert Number (Shellsize-No.)	14S-5	16S-8	18-11	18-20	32-1	32-2
Contact Arrangement (View from mating pin)						
Contact Size (Size×Number of Contact)	#16×5 Contacts	#16×5 Contacts	#12×5 Contacts	#16×5 Contacts	#0×2 Contacts #12×3 Contacts	#4×3 Contacts #16×2 Contacts
Service Rating	INST	A	A	A	E(A), D(Other)	E
Rated Current	13A	13A	23A	13A	# 0 : 150A #12 : 23A	#4 : 80A #16 : 13A

Number of Contact	6 Contacts				
Insert Number (Shellsize-No.)	14S-6	18-12	20-17	20-22	36-3
Contact Arrangement (View from mating pin)					
Contact Size (Size×Number of Contact)	#16×6 Contacts	#16×6 Contacts	#12×5 Contacts #16×1 Contact	#8×3 Contacts #16×3 Contacts	#0×3 Contacts #12×3 Contacts
Service Rating	INST	A	A	A	D
Rated Current	13A	13A	#12 : 23A #16 : 13A	# 8 : 46A #16 : 13A	# 0 : 150A #16 : 23A

◎ 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.

Contact Arrangement

Number of Contact	7 Contacts					
Insert Number (Shellsize-No.)	16S-1	20-15	22-28	24-2	24-10	28-10
Contact Arrangement (View from mating pin)						
Contact Size (Size×Number of Contact)	#16×7 Contacts	#12×7 Contacts	#12×7 Contacts	#12×7 Contacts	#8×7 Contacts	#4×2 Contacts #8×2 Contacts #12×3 Contacts
Service Rating	A	A	A	D	A	D(G), A(Other)
Rated Current	13A	23A	23A	23A	46A	#4 : 80A #8 : 46A #12 : 23A

Number of Contact	8 Contacts			9 Contacts		
Insert Number (Shellsize-No.)	18-8	20-7	22-23	20-16	20-18	24-11
Contact Arrangement (View from mating pin)						
Contact Size (Size×Number of Contact)	#12×1 Contact #16×7 Contacts	#16×8 Contacts	#12×8 Contacts	#12×2 Contacts #16×7 Contacts	#12×3 Contacts #16×6 Contacts	#8×3 Contacts #12×6 Contacts
Service Rating	A	D(ABHG) A(CDEF)	D(H) A(Other)	A	A	A
Rated Current	#12 : 23A #16 : 13A	13A	23A	#12 : 23A #16 : 13A	#12 : 23A #16 : 13A	#8 : 46A #12 : 23A

Number of Contact	10 Contacts		11 Contacts
Insert Number (Shellsize-No.)	18-1	18-19	24-20
Contact Arrangement (View from mating pin)			
Contact Size (Size×Number of Contact)	#16×10 Contacts	#16×10 Contacts	#12×2 Contacts #16×9 Contacts
Service Rating	A(BCFG) INST(Other)	A	D
Rated Current	13A	13A	#12 : 23A #16 : 13A

Number of Contact	14 Contacts			
Insert Number (Shellsize-No.)	20-27	22-19	28-20	32-9
Contact Arrangement (View from mating pin)				
Contact Size (Size×Number of Contact)	#16×14 Contacts	#16×14 Contacts	#12×10 Contacts #16×4 Contacts	#4×2 Contacts #16×12 Contacts
Service Rating	A	A	A	D
Rated Current	13A	13A	#12 : 23A #16 : 13A	#4 : 80A #16 : 13A

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▶コンタクト配列一覧

Number of Contact	16 Contacts		17 Contacts	19 Contacts	20 Contacts
Insert Number (Shellsize-No.)	24-5	24-7	20-29	22-14	28-16
Contact Arrangement (View from mating pin)					
Contact Size (Size×Number of Contact)	#16×16 Contacts	#12×2 Contacts #16×14 Contacts	#16×17 Contacts	#16×19 Contacts	#16×20 Contacts
Service Rating	A	A	A	A	A
Rated Current	13A	#12 : 23A #16 : 13A	13A	13A	13A

Number of Contact	22 Contacts	24 Contacts	26 Contacts	30 Contacts
Insert Number (Shellsize-No.)	28-11	24-28	28-12	32-8
Contact Arrangement (View from mating pin)				
Contact Size (Size×Number of Contact)	#12×4 Contacts #16×18 Contacts	#16×24 Contacts	#16×26 Contacts	#12×6 Contacts #16×24 Contacts
Service Rating	A	INST	A	A
Rated Current	#12 : 23A #16 : 13A	13A	13A	#12 : 23A #16 : 13A

Number of Contact	31 Contacts	35 Contacts		37 Contacts
Insert Number (Shellsize-No.)	36-9	28-15	32-7	28-21
Contact Arrangement (View from mating pin)				
Contact Size (Size×Number of Contact)	#4×1 Contact, #8×2 Contacts #12×14 Contacts, #16×14 Contacts	#16×35 Contacts	#12×7 Contacts #16×28 Contacts	#16×37 Contacts
Service Rating	A	A	INST(ABHJ) A(Other)	A
Rated Current	#4 : 80A #8 : 46A #12 : 23A #16 : 13A	13A	#12 : 23A #16 : 13A	13A

Number of Contact	48 Contacts	52 Contacts	54 Contacts	73 Contacts
Insert Number (Shellsize-No.)	36-10	32-414	32A-10	36-73
Contact Arrangement (View from mating pin)				
Contact Size (Size×Number of Contact)	#16×48 Contacts	#16×52 Contacts	#16×54 Contacts	#16×73 Contacts
Service Rating	A	A	A	A
Rated Current	13A	13A	13A	13A

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▶ Alternate Insert Position

- Angle change of Insert when using several connectors with the same size and the same contact arrangement.
The Insert position can be changed so that it will not mate other than the same angle.

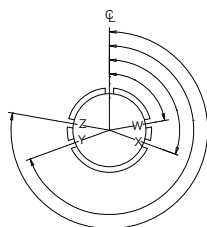
Number of Contact	Insert Number (Shellsize-No.)	Alternate Insert Key			
		W	X	Y	Z
1	20-2	—	—	—	—
2	12S-3	70°	145°	215°	290°
	14S-9	70°	145°	215°	290°
	20-23	35°	110°	250°	325°
	32-5	35°	110°	250°	325°
3	14S-1	—	—	—	—
	14S-7	90°	180°	270°	—
	16S-5	70°	145°	215°	290°
	16-10	90°	180°	270°	—
	18-5	80°	110°	250°	280°
	18-21	—	—	—	—
	18-22	70°	145°	215°	290°
	22-2	70°	145°	215°	290°
	28-6	70°	145°	215°	290°
	36-4	70°	148°	215°	290°
4	14S-2	—	120°	240°	—
	18-4	35°	110°	250°	325°
	18-10	—	120°	240°	—
	20-4	45°	110°	250°	—
	22-10	35°	110°	250°	325°
	22-22	—	110°	250°	—
	24-22	45°	110°	250°	—
	32-17	45°	110°	250°	—
	36-5	—	120°	240°	—
5	14S-5	—	110°	—	—
	16S-8	—	170°	265°	—
	18-11	—	170°	265°	—
	18-20	90°	180°	270°	—
	32-1	80°	110°	250°	280°
	32-2	70°	145°	215°	290°
6	14S-6	—	—	—	—
	18-12	80°	—	—	280°
	20-17	90°	180°	270°	—
	20-22	80°	—	—	280°
	36-3	70°	145°	215°	290°

Number of Contact	Insert Number (Shellsize-No.)	Alternate Insert Key			
		W	X	Y	Z
7	16S-1	80°	—	—	280°
	20-15	80°	—	—	280°
	22-28	80°	—	—	280°
	24-2	80°	—	—	280°
	24-10	80°	—	—	280°
	28-10	80°	110°	250°	280°
8	18-8	70°	—	—	290°
	20-7	80°	110°	250°	280°
	22-23	35°	—	—	—
9	20-16	80°	110°	250°	280°
	20-18	35°	110°	250°	325°
	24-11	35°	110°	250°	325°
10	18-1	70°	145°	215°	290°
	18-19	—	120°	240°	—
11	24-20	80°	110°	250°	280°
14	20-27	35°	110°	250°	325°
	22-19	80°	110°	250°	280°
	28-20	80°	110°	250°	280°
	32-9	80°	110°	250°	280°
16	24-5	80°	110°	250°	280°
	24-7	80°	110°	250°	280°
17	20-29	80°	—	—	280°
19	22-14	80°	110°	250°	280°
20	28-16	80°	110°	250°	280°
22	28-11	80°	110°	250°	280°
24	24-28	80°	110°	250°	280°
26	28-12	90°	180°	270°	—
30	32-8	80°	125°	235°	280°
31	36-9	80°	125°	235°	280°
35	28-15	80°	110°	250°	280°
	32-7	80°	125°	235°	280°
37	28-21	80°	110°	250°	280°
48	36-10	80°	125°	235°	280°
52	32-414	80°	110°	250°	280°
54	32A-10	—	—	—	—
73	36-73	80°	110°	250°	280°

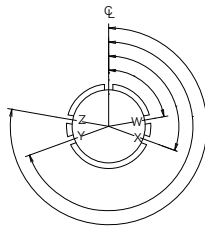
※ Alternate Insert Position

No letter is required for 0° of standard position.

The alternate insert positions, W, X, Y and Z, are available. W, X, Y and Z designate that an insert is rotated in its shell from the standard position.



Front View of Pin Insert



Front View of Socket Insert

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Eg. : For 6 conctcs. Insert Number 20-22

W:80° ,X:- ,Y:- ,Z:280°

→ There are 3 types of connectors with different key positions (0°、80°、280°)