




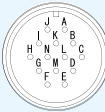
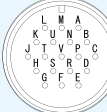















## Multipin Connector Layout and specifications (Compatible with MIL-DTL-5015)

Mating surface						
Configuration		#16/2P	#16/3P	#16/4P	#16/6P	#16/10P
Layout code		12S-3	14S-7	14S-2	14S-6	18-1
Withstand voltage (test voltage)		Standard type: DC 500 V, high withstand voltage type: AC 1500 V				
Rated voltage		Standard type: AC 60 V, high withstand voltage type: AC 200 V				
Current capacity	Per pin	3 A				
	Per unit	6 A	9 A	12 A	18 A	30 A
Compatible plug (reference)	Solder wire connection	N/MS3106B 12S-3S	N/MS3106B 14S-7S	N/MS3106B 14S-2S *1	N/MS3106B 14S-6S	N/MS3106B 18-1S *1
	Crimp wire connection	—	—	—	—	JA3106B-18-J1SC-R *1

Mating surface						
Configuration	#16/14P	#16/19P	#16/24P	#16/37P	#16/48P	
Layout code	20-27	22-14	24-28	28-21	36-10	
Withstand voltage (test voltage)	Standard type: DC 500 V, high withstand voltage type: AC 1500 V					
Rated voltage	Standard type: AC 60 V, high withstand voltage type: AC 200 V					
Current capacity	Per pin	3A				
	Per unit	42 A	49.4 A	62.4 A	96.2 A	124.8 A
Compatible plug (reference)	Solder wire connection	N/MS3106B 20-27S	N/MS3106B 22-14S	N/MS3106B 24-28S *1	N/MS3106B 28-21S	N/MS3106B 36-10S
	Crimp wire connection	JA3106B-20-J27SC-R	-	JA3106B-24-J28SC-R*1	JA3106B-28-J21SC-R	-

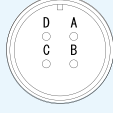
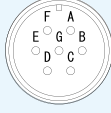
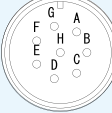
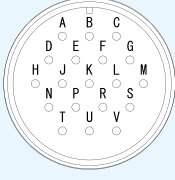

\*1 The plug's withstand voltage specification is AC 1000 V.

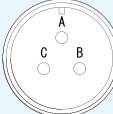
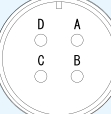
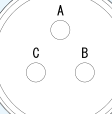
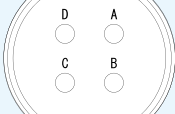
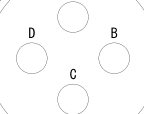
Thermocouple polarity (Symbol ◇ : Positive terminal ◆ : Negative terminal ○ : Other )						
Mating surface						
Configuration	2P (1 channel)	3P (1 channel)	4P (2 channel)	6P (3 channel)	10P (5 channel)	14P (7 channel)
Layout code	12S-3	14S-7	14S-2	14S-6	18-1	20-27

Thermocouple polarity (Symbol ◇ : Positive terminal ◆ : Negative terminal ○ : Other )				
Mating surface				
Configuration	19P (9 channel)	24P (12 channel)	37P (18 channel)	48P (24 channel)
Layout code	22-14	24-28	28-21	36-10

- The mating surface is on the left side of the figure in the catalog.
- Pin numbers are indicated in the figures only.

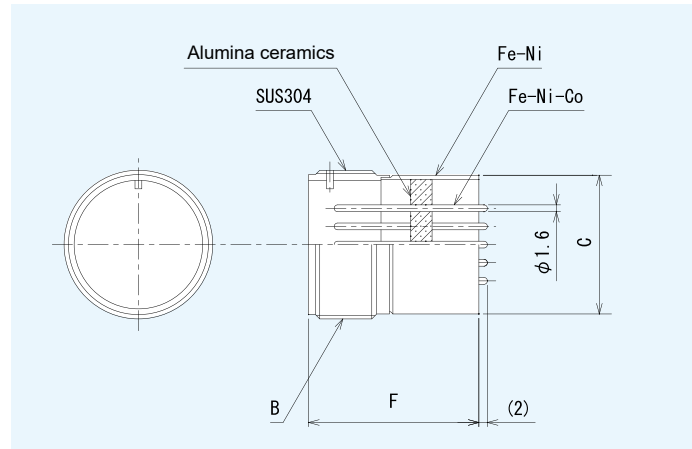
## Multipin Connector Layout and specifications (Compatible with MIL-DTL-5015)

Mating surface						
Configuration		#12/4P	#12/7P	#12/8P	#12/19P	#12/27P
Layout code		20-4	20-15	22-23	32-J19	36-J2
Withstand voltage (test voltage)		AC 1500 V				
Rated voltage		AC 200 V				
Current capacity	Per pin	23 A				
	Per unit	76.2 A	105.7 A	110.4 A	87.4 A	124.2 A
Compatible plug (reference)	Solder wire connection	N/MS3106B 20-4S	N/MS3106B 20-15S	N/MS3106B 22-23S	-	-
	Crimp wire connection	JA3106B-20-4SC-R	JA3106B-20-15SC-R	JA3106B-22-23SC-R	JA3106B-32-J19SC-R	JA3106B-36-J2SC-R

Mating surface						
Configuration		#8/3P	#8/4P	#4/3P	#4/4P	#0/4P
Layout code		22-2	24-22	28-6	32-17	36-5
Withstand voltage (test voltage)		AC 1500 V				
Rated voltage		AC 200 V				
Current capacity	Per pin	46 A		80 A		150 A
	Per unit	122.3 A	152.5 A	212.6 A	265.3 A	497.4 A
Compatible plug (reference)	Solder wire connection	N/MS3106B 22-2S	D/MS3106B 24-22S	N/MS3106B 28-6S	D/MS3106B 32-17S	N/MS3106B 36-5S
	Crimp wire connection	-	JA3106B-24-J22SC-R	-	-	-

- The mating surface is on the left side of the figure in the catalog.
- Pin numbers are indicated in the figures only.

## Multipin Connector Single-side plug mating (single) type / #16 straight pins



\* Parts are joined by means of silver brazing.

Model -----E.g.) C M 19 JP- 22-14  
 Product classification code (C: Multipin connector)  
 Withstand voltage code (M: DC 500 V, A: AC 1500 V)  
 Number of pins  
 Terminal shape (JP: Single-side plug mating - Straight pins)  
 Layout code (See page C01)

	Model	Number of pins	Dimensions			Withstand voltage (test voltage)
			B	C	F	
Standard type	CM02JP-12S-3	2	3/4-20UNEF	φ17.0	35	DC 500 V
	CM03JP-14S-7	3	7/8-20UNEF	φ20.1		
	CM04JP-14S-2	4				
	CM06JP-14S-6	6				
	CM10JP-18-1	10	1 1/8-18UNEF	φ26.1	40	
	CM14JP-20-27	14	1 1/4-18UNEF	φ29.6		
	CM19JP-22-14	19	1 3/8-18UNEF	φ32.6		
	CM24JP-24-28	24	1 1/2-18UNEF	φ36.6		
	CM37JP-28-21	37	1 3/4-18UNS	φ41.1		
	CM48JP-36-10	48	2 1/4-16UN	φ53.1		
High withstand voltage type	CA02JP-12S-3	2	3/4-20UNEF	φ17.0	35	AC 1500 V
	CA03JP-14S-7	3	7/8-20UNEF	φ20.1		
	CA04JP-14S-2	4				
	CA10JP-18-1	10	1 1/8-18UNEF	φ26.1	40	
	CA14JP-20-27	14	1 1/4-18UNEF	φ29.6		
	CA19JP-22-14	19	1 3/8-18UNEF	φ32.6		
	CA24JP-24-28	24	1 1/2-18UNEF	φ36.6		
	CA37JP-28-21	37	1 3/4-18UNS	φ41.1		
	CA48JP-36-10	48	2 1/4-16UN	φ53.1		

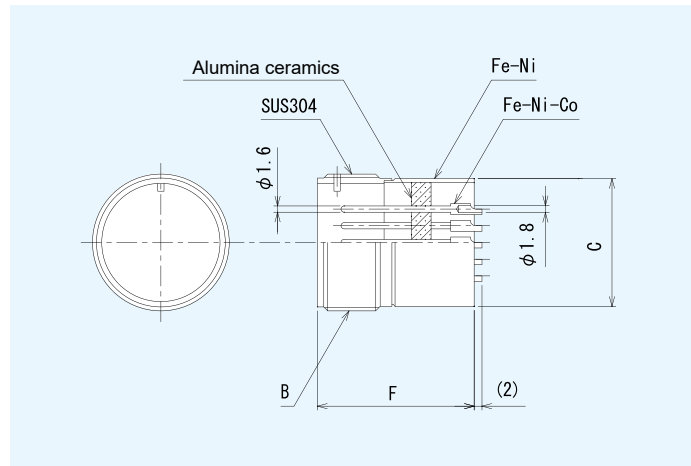
### Common specifications

Current capacity: See page C01

Insulation resistance: 1000 MΩ or more (at DC 500 V)

Hermeticity: 1x10<sup>-10</sup> Pa·m<sup>3</sup>/s or less

## Multipin Connector Single-side plug mating (single) type / #16 solder cup pins



Model ----- E.g.) C M 19 JC- 22-14  
 Product classification code (C: Multipin connector)  
 Withstand voltage code (M: DC 500 V, A: AC 1500 V)  
 Number of pins  
 Terminal shape (JP: Single-side plug mating - Solder cup pins)  
 Layout code (See page C01)

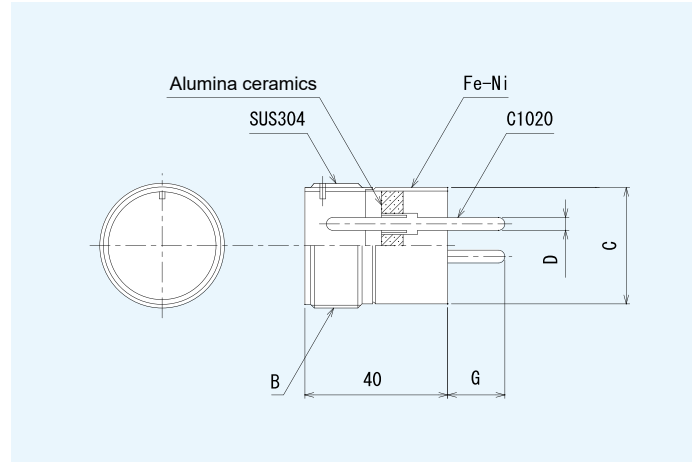
\* Parts are joined by means of silver brazing.

	Model	Number of pins	Dimensions			Withstand voltage (test voltage)
			B	C	F	
Standard type (M series)	CM02JC-12S-3	2	3/4-20UNEF	ϕ17.0	35	DC 500 V
	CM03JC-14S-7	3	7/8-20UNEF	ϕ20.1		
	CM04JC-14S-2	4				
	CM06JC-14S-6	6				
	CM10JC-18-1	10	1 1/8-18UNEF	ϕ26.1	40	
	CM14JC-20-27	14	1 1/4-18UNEF	ϕ29.6		
	CM19JC-22-14	19	1 3/8-18UNEF	ϕ32.6		
	CM24JC-24-28	24	1 1/2-18UNEF	ϕ36.6		
	CM37JC-28-21	37	1 3/4-18UNS	ϕ41.1		
	CM48JC-36-10	48	2 1/4-16UN	ϕ53.1		
High withstand voltage type	CA02JC-12S-3	2	3/4-20UNEF	ϕ17.0	35	AC 1500 V
	CA03JC-14S-7	3	7/8-20UNEF	ϕ20.1		
	CA04JC-14S-2	4				
	CA10JC-18-1	10	1 1/8-18UNEF	ϕ26.1	40	
	CA14JC-20-27	14	1 1/4-18UNEF	ϕ29.6		
	CA19JC-22-14	19	1 3/8-18UNEF	ϕ32.6		
	CA24JC-24-28	24	1 1/2-18UNEF	ϕ36.6		
	CA37JC-28-21	37	1 3/4-18UNS	ϕ41.1		
	CA48JC-36-10	48	2 1/4-16UN	ϕ53.1		

Common specifications		
Current capacity: See page C01	Insulation resistance: 1000 MΩ or more (at DC 500 V)	Hermeticity: 1x10 <sup>-10</sup> Pa·m <sup>3</sup> /s or less



## Multipin Connector Single-side plug mating (single) type / #12 to #0 straight pins



\* Parts are joined by means of silver brazing.

Model -----E.g.) C A 03 JP- 22-2

Product classification code (C: Multipin connector)

Withstand voltage code (A: AC 1500 V)

Number of pins

Terminal shape (JP: Single-side plug mating - Straight pins)

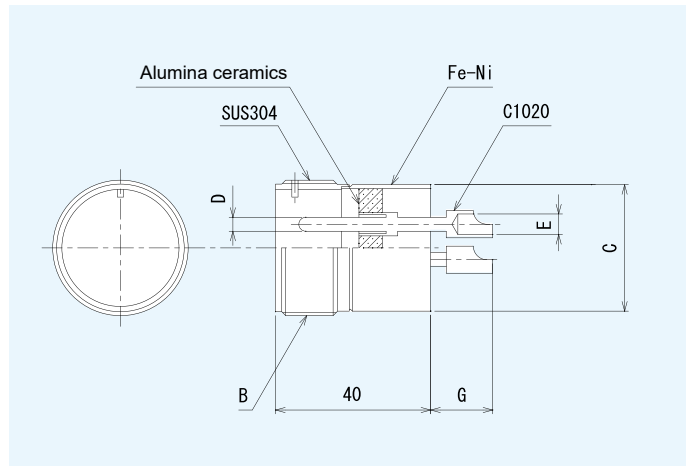
Layout code (See page C02)

Model	Number of pins	Dimensions				Withstand voltage (test voltage)
		B	C	D	G	
CA04JP-20-4	4	1 1/4-18UNEF	φ29.6	φ2.4 (#12)	(5)	AC 1500 V
CA07JP-20-15	7					
CA08JP-22-23	8	1 3/8-18UNEF	φ32.6			
CA19JP-32-J19	19	2 -18UNS	φ47.1			
CA27JP-36-J2	27	2 1/4-16UN	φ53.1	φ3.6 (#8)	(16)	
CA03JP-22-2	3	1 3/8-18UNEF	φ32.6			
CA04JP-24-22	4	1 1/2-18UNEF	φ36.6			
CA03JP-28-6	3	1 3/4-18UNS	φ41.1	φ5.7 (#4)	(20)	
CA04JP-32-17	4	2 -18UNS	φ47.1			
CA04JP-36-5	4	2 1/4-16UN	φ53.1	φ9.1 (#0)		

### Common specifications

Current capacity: See page C02	Insulation resistance: 1000 MΩ or more (at DC 500 V)	Hermeticity: 1x10 <sup>-10</sup> Pa·m <sup>3</sup> /s or less
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## Multipin Connector Single-side plug mating (single) type / #12 to #0 solder cup pins



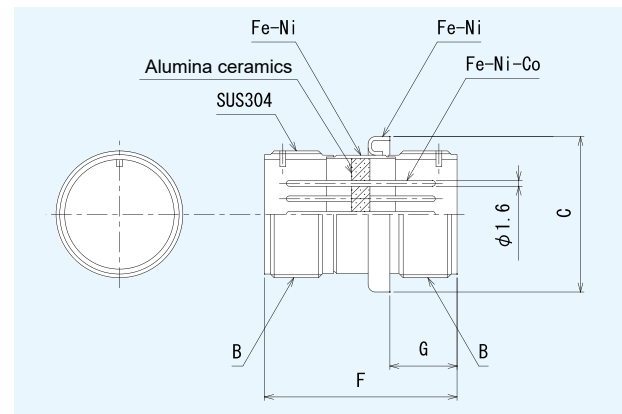
\* Parts are joined by means of silver brazing.

Model -----E.g.) C A 03 JC- 22-2  
 Product classification code (C: Multipin connector)  
 Withstand voltage code (A: AC 1500 V)  
 Number of pins  
 Terminal shape (JP: Single-side plug mating - Solder cup pins)  
 Layout code (See page C02)

Model	Number of pins	Dimensions					Withstand voltage (test voltage)
		B	C	D	E	G	
CA04JC-20-4	4	1 1/4-18UNEF	ϕ29.6	ϕ2.4 (#12)	ϕ2.9	(5)	AC 1500 V
CA07JC-20-15	7						
CA08JC-22-23	8	1 3/8-18UNEF	ϕ32.6				
CA19JC-32-J19	19	2 -18UNS	ϕ47.1				
CA27JC-36-J2	27	2 1/4-16UN	ϕ53.1	ϕ3.6 (#8)	ϕ5.3	(16)	
CA03JC-22-2	3	1 3/8-18UNEF	ϕ32.6				
CA04JC-24-22	4	1 1/2-18UNEF	ϕ36.6				
CA03JC-28-6	3	1 3/4-18UNS	ϕ41.1	ϕ5.7 (#4)	ϕ8.4	(20)	
CA04JC-32-17	4	2 -18UNS	ϕ47.1				
CA04JC-36-5	4	2 1/4-16UN	ϕ53.1				

Common specifications		
Current capacity: See page C02	Insulation resistance: 1000 M $\Omega$ or more (at DC 500 V)	Hermeticity: 1x10 <sup>-10</sup> Pa·m <sup>3</sup> /s or less

## Multipin Connector Double-side plug mating (double) type / #16 pins



\* Parts are joined by means of silver brazing.

Model ----- E.g.) C M 19 JJ- 22-14  
 Product classification code (C: Multipin connector)  
 Withstand voltage code (M: DC 500 V, A: AC 1500 V)  
 Number of pins  
 Terminal shape (JJ: Double-side plug mating)  
 Layout code (See page C01)

	Model	Number of pins	Dimensions				Withstand voltage (test voltage)
			B	C	G	F	
Standard type	CM02JJ-12S-3	2	3/4-20UNEF	ϕ27.1	16.5	43	DC 500 V
	CM03JJ-14S-7	3	7/8-20UNEF	ϕ30.3			
	CM04JJ-14S-2	4					
	CM06JJ-14S-6	6					
	CM10JJ-18-1	10	1 1/8-18UNEF	ϕ36.3	18.5	53	
	CM14JJ-20-27	14	1 1/4-18UNEF	ϕ39.8			
	CM19JJ-22-14	19	1 3/8-18UNEF	ϕ42.8			
	CM24JJ-24-28	24	1 1/2-18UNEF	ϕ46.8			
	CM37JJ-28-21	37	1 3/4-18UNS	ϕ51.3			
	CM48JJ-36-10	48	2 1/4-16UN	ϕ63.3			
High withstand voltage type	CA02JJ-12S-3	2	3/4-20UNEF	ϕ27.1	16.5	43	AC 1500 V
	CA03JJ-14S-7	3	7/8-20UNEF	ϕ30.3			
	CA04JJ-14S-2	4					
	CA10JJ-18-1	10	1 1/8-18UNEF	ϕ36.3	18.5	53	
	CA14JJ-20-27	14	1 1/4-18UNEF	ϕ39.8			
	CA19JJ-22-14	19	1 3/8-18UNEF	ϕ42.8			
	CA24JJ-24-28	24	1 1/2-18UNEF	ϕ46.8			
	CA37JJ-28-21	37	1 3/4-18UNS	ϕ51.3			
	CA48JJ-36-10	48	2 1/4-16UN	ϕ63.3			

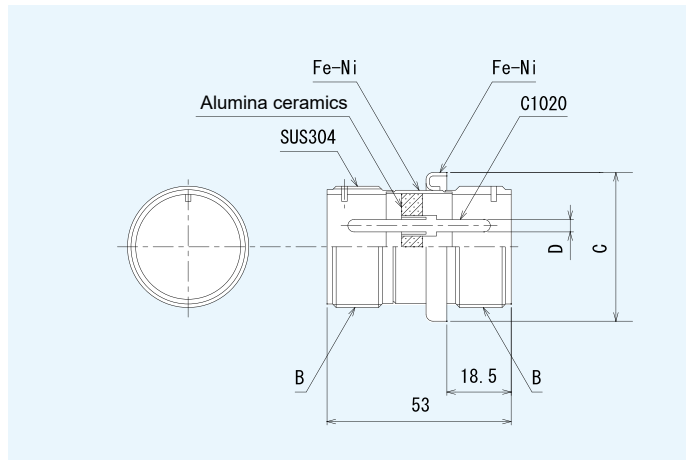
### Common specifications

Current capacity: See page C01

Insulation resistance: 1000 MΩ or more (at DC 500 V)

Hermeticity: 1x10<sup>-10</sup> Pa·m<sup>3</sup>/s or less

## Multipin Connector Double-side plug mating (double) type / #12 to #0 pins



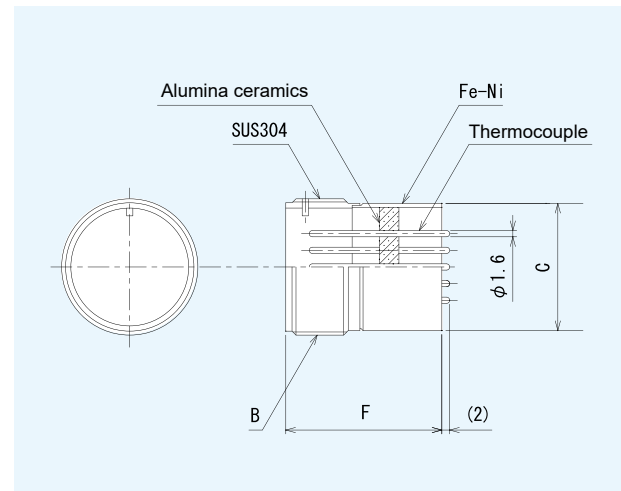
\* Parts are joined by means of silver brazing.

Model-----E.g.) C A 03 JJ- 22-2  
 Product classification code (C: Multipin connector)  
 Withstand voltage code (A: AC 1500 V)  
 Number of pins  
 Terminal shape (JJ: Double-side plug mating)  
 Layout code (See page C02)

Model	Number of pins	Dimensions			Withstand voltage (test voltage)
		B	C	D	
CA04JJ-20-4	4	1 1/4-18UNEF	ϕ39.8	ϕ2.4 (#12)	AC 1500 V
CA07JJ-20-15	7				
CA08JJ-22-23	8				
CA19JJ-32-J19	19	2 -18UNS	ϕ57.4		
CA27JJ-36-J2	27	2 1/4-16UN	ϕ63.3	ϕ3.6 (#8)	
CA03JJ-22-2	3	1 3/8-18UNEF	ϕ42.8		
CA04JJ-24-22	4	1 1/2-18UNEF	ϕ46.8		
CA03JJ-28-6	3	1 3/4-18UNS	ϕ51.3	ϕ5.7 (#4)	
CA04JJ-32-17	4	2 -18UNS	ϕ57.4		
CA04JJ-36-5	4	2 1/4-16UN	ϕ63.3	ϕ9.1 (#0)	

Common specifications		
Current capacity: See page C02	Insulation resistance: 1000 MΩ or more (at DC 500 V)	Hermeticity: 1x10 <sup>-10</sup> Pa·m <sup>3</sup> /s or less

## Multipin Connector Single-side plug mating (single) type / Thermocouple



\* Parts are joined by means of silver brazing.

Model -----E.g.) N K 19 JP- 22-14

Product classification code (N: Thermocouple)

Thermocouple code (See the table on the right)

Number of pins

Terminal shape (JP: Single-side plug mating - Straight pins)

Layout code (See page C01)

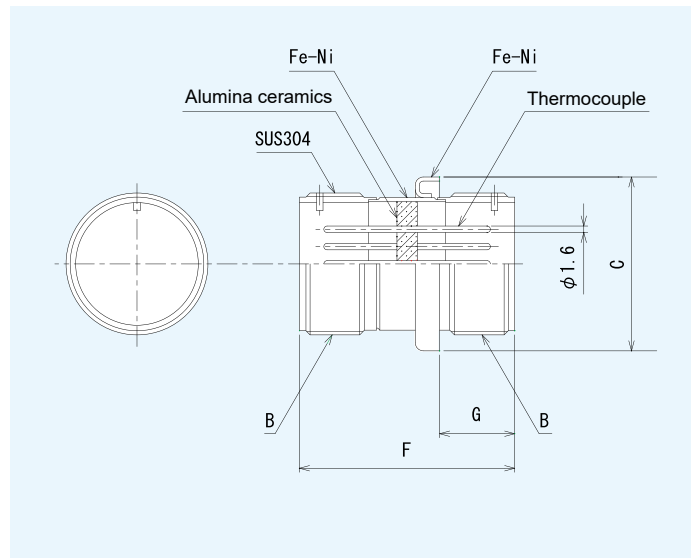
Code	Thermocouple	(Abbreviation)
K	Chromel-alumel	(C/A)
T	Copper-constantan	(C/C)
E	Chromel-constantan	(CR/C)

Model	Number of pins	Number of channels	Dimensions		
			B	C	F
N□02JP-12S-3	2	1	3/4-20UNEF	ϕ 17.0	35
N□03JP-14S-7	3	1	7/8-20UNEF	ϕ 20.1	
N□04JP-14S-2	4	2			
N□06JP-14S-6	6	3			
N□10JP-18-1	10	5	1 1/8-18UNEF	ϕ 26.1	40
N□14JP-20-27	14	7	1 1/4-18UNEF	ϕ 29.6	
N□19JP-22-14	19	9	1 3/8-18UNEF	ϕ 32.6	
N□24JP-24-28	24	12	1 1/2-18UNEF	ϕ 36.6	
N□37JP-28-21	37	18	1 3/4-18UNS	ϕ 41.1	
N□48JP-36-10	48	24	2 1/4-16UN	ϕ 53.1	

### Common specifications

Withstand voltage (test voltage): DC 500 V	Insulation resistance: 1000 MΩ or more (at DC 500 V)	Hermeticity: 1x10 <sup>-10</sup> Pa·m <sup>3</sup> /s or less
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## Multipin Connector Double-side plug mating (double) type / Thermocouple



\* Parts are joined by means of silver brazing.

Model -----E.g.) N K 19 JJ- 22-14  
 Product classification code (N: Thermocouple)  
 Thermocouple code (See the table on the right)  
 Number of pins  
 Terminal shape (JJ: Double-side plug mating)  
 Layout code (See page C01)

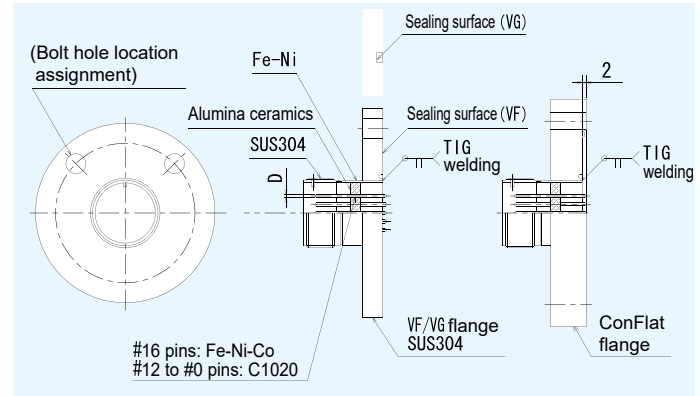
Code	Thermocouple	(Abbreviation)
K	Chromel-alumel	(C/A)
T	Copper-constantan	(C/C)
E	Chromel-constantan	(CR/C)

Model	Number of pins	Number of channels	Dimensions			
				C	G	
N□02JJ-12S-3	2	1	3/4-20UNEF	ϕ27.1	16.5	43
N□03JJ-14S-7	3	1	7/8-20UNEF	ϕ30.3		
N□04JJ-14S-2	4	2				
N□06JJ-14S-6	6	3				
N□10JJ-18-1	10	5	1 1/8-18UNEF	ϕ36.3	18.5	53
N□14JJ-20-27	14	7	1 1/4-18UNEF	ϕ39.8		
N□19JJ-22-14	19	9	1 3/8-18UNEF	ϕ42.8		
N□24JJ-24-28	24	12	1 1/2-18UNEF	ϕ46.8		
N□37JJ-28-21	37	18	1 3/4-18UNS	ϕ51.3		
N□48JJ-36-10	48	24	2 1/4-16UN	ϕ63.3		

### Common specifications

Withstand voltage (test voltage): DC 500 V	Insulation resistance: 1000 MΩ or more (at DC 500 V)	Hermeticity: 1×10 <sup>-10</sup> Pa·m <sup>3</sup> /s or less
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## Multipin Connector Single-side plug mating (single) type / With flange



Model ----- E.g.) C M 19 JC - 22-14 -VG40  
E.g.) N K 19 JP - 22-14 -CF70

Single-side plug mating (single) type Terminal model  
(See pages C03 to C06 and C09)

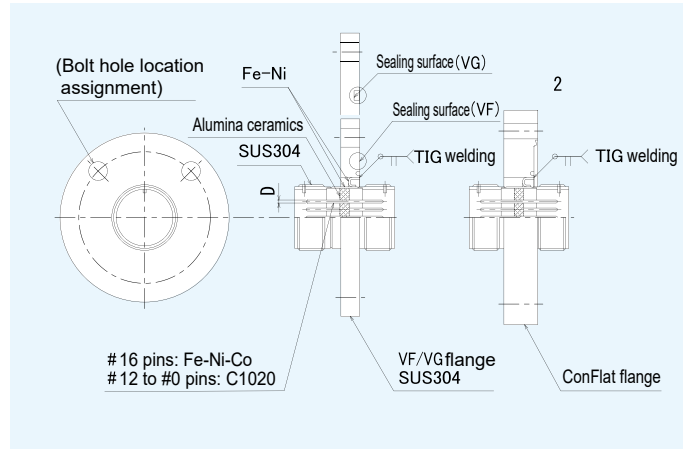
Flange model (See "Flange model" in the table below)

Model	Number of pins	Dimensions	Flange model *1			
			VF/VG flange *2		ConFlat flange	
		D	Raised face shape (VF)	Groove shape (VG)		
□□02J□-12S-3-□□□□	2	φ1.6 (#16)	VF20	VG20	CF70	
□□03J□-14S-7-□□□□	3			VG25		
□□04J□-14S-2-□□□□	4					
□□06J□-14S-6-□□□□	6			VG40		
□□10J□-18-1-□□□□	10		VF25		CF114	
□□14J□-20-27-□□□□	14		VG50			
□□19J□-22-14-□□□□	19					VF40
□□24J□-24-28-□□□□	24		VF50			
□□37J□-28-21-□□□□	37		φ2.4 (#12)	VF25	VG25	CF70
□□48J□-36-10-□□□□	48				VG40	
CA04J□-20-4-□□□□	4	VF40		CF114		
CA07J□-20-15-□□□□	7	VF50				
CA08J□-22-23-□□□□	8	VF25				
CA19J□-32-J19-□□□□	19	φ3.6 (#8)		VF40	VG40	CF114
CA27J□-36-J2-□□□□	27		VG65			
CA03J□-22-2-□□□□	3	φ5.7 (#4)	VF40	VG65		
CA04J□-24-22-□□□□	4					
CA03J□-28-6-□□□□	3	φ9.1 (#0)	VF50			
CA04J□-32-17-□□□□	4					
CA04J□-36-5-□□□□	4					

\*1 Flange models with the smallest weldable diameter are listed. \*2 Compliant with JIS B 2290:1968

Common specifications	
See each page for the dimensions, withstand voltage specifications, etc.	Hermeticity: $1 \times 10^{-10}$ Pa·m <sup>3</sup> /s or less

## Multipin Connector Double-side plug mating (double) type / With flange



Model ----- E.g.) C M 19 JJ - 22-14-VG40  
E.g.) N K 19 JJ - 22-14-CF114

Double-side plug mating (double) type Terminal model  
(See pages C07, C08 and C10)

Flange model (See "Flange model" in the table below)

Model	Number of pins	Dimensions	Flange model *1		
			VF/VG flange *2		ConFlat flange
		D	Raised face shape (VF)	Groove shape (VG)	
□□02JJ-12S-3-□□□□	2	φ1.6 (#16)	VF25	VG25	CF70
□□03JJ-14S-7-□□□□	3				
□□04JJ-14S-2-□□□□	4				
□□06JJ-14S-6-□□□□	6				
□□10JJ-18-1-□□□□	10		VF40	VG40	CF114
□□14JJ-20-27-□□□□	14				
□□19JJ-22-14-□□□□	19				
□□24JJ-24-28-□□□□	24				
□□37JJ-28-21-□□□□	37		VF50	VG50	
□□48JJ-36-10-□□□□	48			VG65	
CA04JJ-20-4-□□□□	4	φ2.4 (#12)	VF40	VG40	CF114
CA07JJ-20-15-□□□□	7				
CA08JJ-22-23-□□□□	8		VF50	VG50	
CA19JJ-32-J19-□□□□	19			VG65	
CA27JJ-36-J2-□□□□	27			VG65	
CA03JJ-22-2-□□□□	3	φ3.6 (#8)	VF40	VG40	
CA04JJ-24-22-□□□□	4				
CA03JJ-28-6-□□□□	3	φ5.7 (#4)	VF50	VG50	
CA04JJ-32-17-□□□□	4				
CA04JJ-36-5-□□□□	4	φ9.1 (#0)			

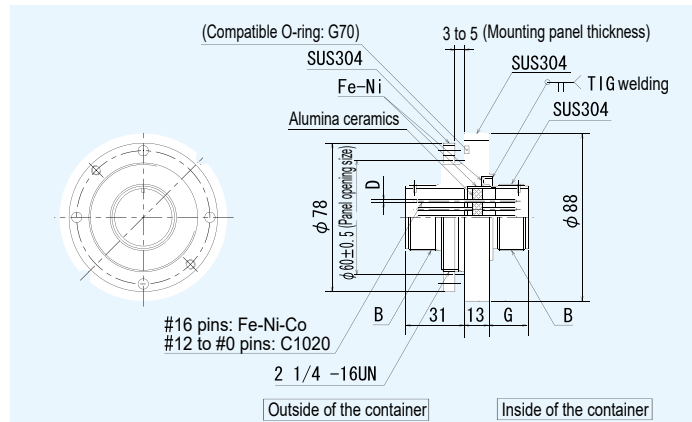
\*1 Flange models with the smallest weldable diameter are listed.

\*2 Compliant with JIS B 2290:1968

Common specifications	
See each page for the dimensions, withstand voltage specifications, etc.	Hermeticity: $1 \times 10^{-10}$ Pa·m <sup>3</sup> /s or less



## Multipin Connector Panel penetration type



\* Parts are joined by means of silver brazing.  
(Excluding welding sections)

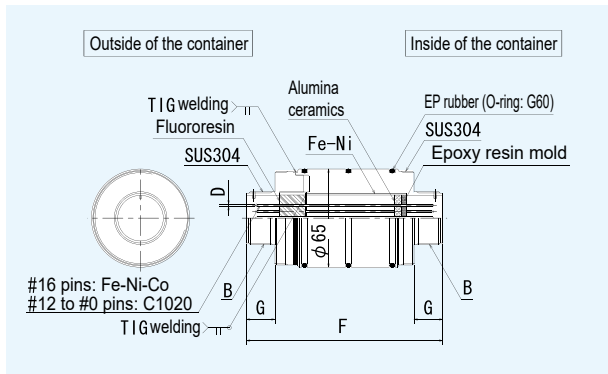
Model ----- E.g.) C M 19 JJ- 22-14-PN60  
 Product classification code (C: Multipin connector)  
 Withstand voltage code (M: DC 500 V, A: AC 1500 V)  
 Number of pins  
 Terminal shape (JJ: Double-side plug mating)  
 Layout code (See pages C01 and C02)  
 Mounting type (PN: Panel penetration)

Model [Withstand voltage (test voltage) specification]		Number of pins	Dimensions		
Standard type [DC 500 V]	High withstand voltage type [AC 1500 V]		B	D	G
CM02JJ-12S-3-PN60	CA02JJ-12S-3-PN60	2	3/4-20UNEF	φ1.6 (#16)	18.5
CM03JJ-14S-7-PN60	CA03JJ-14S-7-PN60	3	7/8-20UNEF		
CM04JJ-14S-2-PN60	CA04JJ-14S-2-PN60	4			
CM06JJ-14S-6-PN60	-	6			
CM10JJ-18-1-PN60	CA10JJ-18-1-PN60	10	1 1/8-18UNEF		
CM14JJ-20-27-PN60	CA14JJ-20-27-PN60	14	1 1/4-18UNEF		
CM19JJ-22-14-PN60	CA19JJ-22-14-PN60	19	1 3/8-18UNEF		
CM24JJ-24-28-PN60	CA24JJ-24-28-PN60	24	1 1/2-18UNEF		
CM37JJ-28-21-PN60	CA37JJ-28-21-PN60	37	1 3/4-18UNS		
CM48JJ-36-10-PN60	CA48JJ-36-10-PN60	48	2 1/4-16UN		
	CA04JJ-20-4-PN60	4	1 1/4-18UNEF	φ2.4 (#12)	20.5
	CA07JJ-20-15-PN60	7			
	CA08JJ-22-23-PN60	8			
	CA19JJ-32-J19-PN60	19	2 -18UNS		
	CA27JJ-36-J2-PN60	27	2 1/4-16UN		
	CA03JJ-22-2-PN60	3	1 3/8-18UNEF	φ3.6 (#8)	
	CA04JJ-24-22-PN60	4	1 1/2-18UNEF		
	CA03JJ-28-6-PN60	3	1 3/4-18UNS	φ5.7 (#4)	
	CA04JJ-32-17-PN60	4	2 -18UNS		
	CA04JJ-36-5-PN60	4	2 1/4-16UN	φ9.1 (#0)	

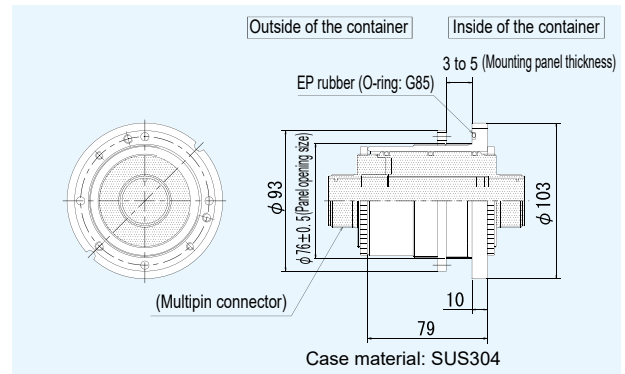
### Common specifications

Current capacity: See pages C01 and C02    Insulation resistance: 1000 MΩ or more (at DC 500 V)    Hermeticity: 1x10<sup>-10</sup> Pa·m<sup>3</sup>/s or less

## Multipin Connector Push-out style Panel penetration type



\* Parts are joined by means of silver brazing.  
(Excluding welding sections)



Model-----E.g.) C M 19 JJ- 22-14-PS76  
 Product classification code (C: Multipin connector)  
 Withstand voltage code (M: DC 500 V, A: AC 1500 V)  
 Number of pins  
 Terminal shape (JJ: Double-side plug mating)  
 Layout code (See pages C01 and C02)  
 Mounting type (PS: Push-out style Panel penetration)

Panel penetration case (Sold separately)

Model: ZCASE-PS76

Patent holder: Japan Atomic Energy Agency

Title of invention: "Hermetic adapter and its replacement method"

Application No.: Patent Application Number Hei 10-44343

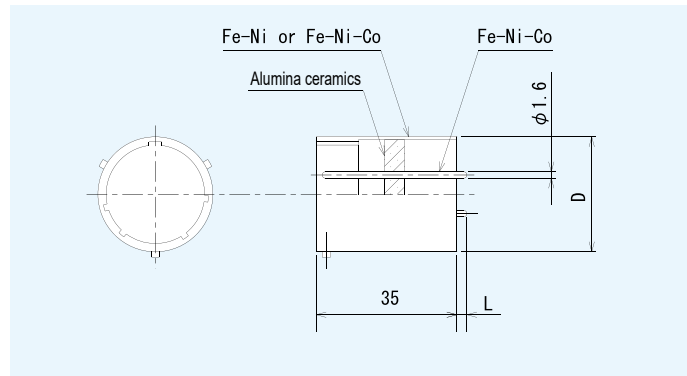
Patent No.: 3002966

Model [Withstand voltage (test voltage) specification]		Number of pins	Dimensions			
Standard type [DC 500 V]	High withstand voltage type [AC 1500 V]		B	D	G	F
CM02JJ-12S-3-PS76	CA02JJ-12S-3-PS76	2	3/4-20UNEF	φ1.6 (#16)	16	124
CM03JJ-14S-7-PS76	CA03JJ-14S-7-PS76	3	7/8-20UNEF			
CM04JJ-14S-2-PS76	CA04JJ-14S-2-PS76	4				
CM06JJ-14S-6-PS76	-	6				
CM10JJ-18-1-PS76	CA10JJ-18-1-PS76	10	1 1/8-18UNEF			
CM14JJ-20-27-PS76	CA14JJ-20-27-PS76	14	1 1/4-18UNEF			
CM19JJ-22-14-PS76	CA19JJ-22-14-PS76	19	1 3/8-18UNEF			
CM24JJ-24-28-PS76	CA24JJ-24-28-PS76	24	1 1/2-18UNEF			
CM37JJ-28-21-PS76	CA37JJ-28-21-PS76	37	1 3/4-18UNS			
CM48JJ-36-10-PS76	CA48JJ-36-10-PS76	48	2 1/4-16UN			
	CA04JJ-20-4-PS76	4	1 1/4-18UNEF	φ2.4 (#12)	19	130
	CA07JJ-20-15-PS76	7				
	CA08JJ-22-23-PS76	8	1 3/8-18UNEF			
	CA19JJ-32-J19-PS76	19	2 -18UNS			
	CA27JJ-36-J2-PS76	27	2 1/4-16UN			
	CA03JJ-22-2-PS76	3	1 3/8-18UNEF	φ3.6 (#8)		
	CA04JJ-24-22-PS76	4	1 1/2-18UNEF			
	CA03JJ-28-6-PS76	3	1 3/4-18UNS	φ5.7 (#4)		
	CA04JJ-32-17-PS76	4	2 -18UNS			
	CA04JJ-36-5-PS76	4	2 1/4-16UN	φ9.1 (#0)		

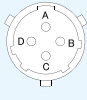
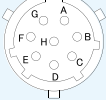
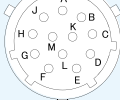


### Common specifications

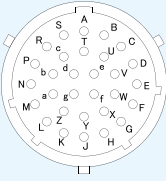
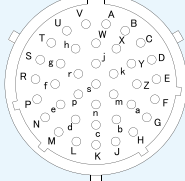
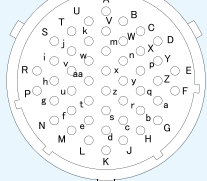
Current capacity: See pages C01 and C02	Insulation resistance: 1000 MΩ or more (at DC 500 V)	Hermeticity: 1x10 <sup>-10</sup> Pa·m <sup>3</sup> /s or less
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## Multipin Connector Single-side plug mating (single) type / G series



\* Parts are joined by means of silver brazing.

Mating surface					
Configuration	4P	8P	12P	19P	22P
Layout code	10-4	12-88	14-92	16-19	18-22

Mating surface			
Configuration	30P	38P	48P
Layout code	20-30	22-38	24-48

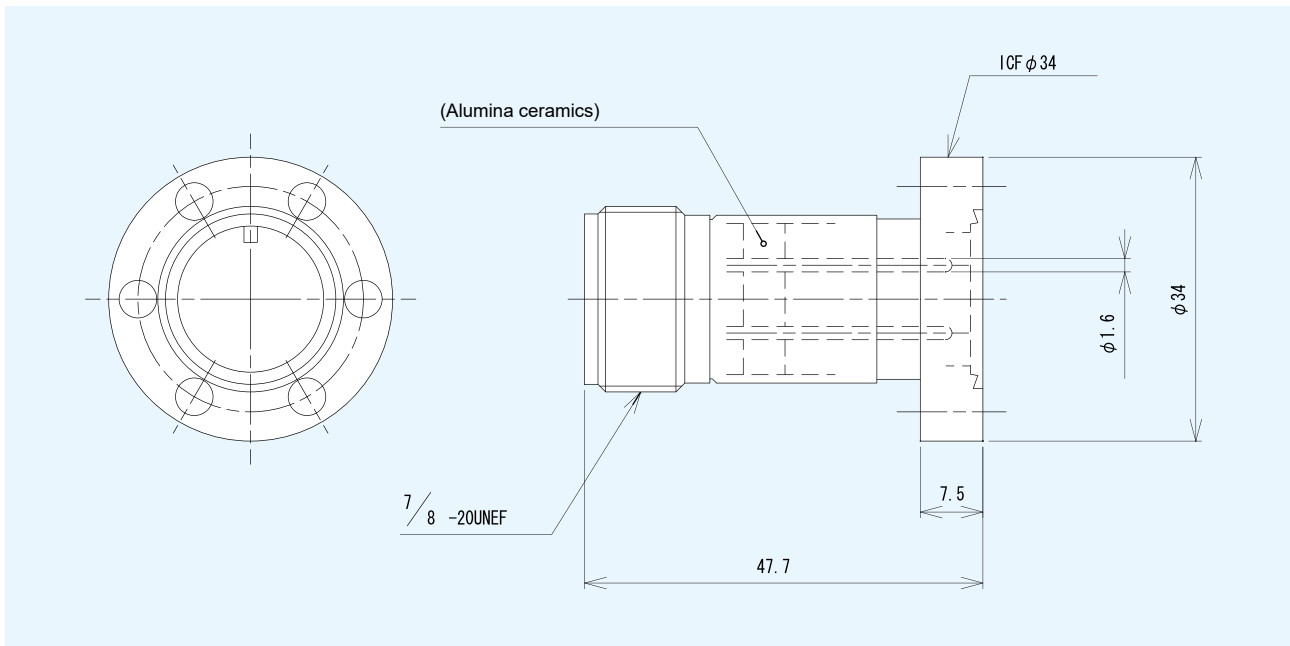
• The mating surface is on the left side of the figure in the catalog. • Pin numbers are indicated in the figures only.

Model	Number of pins	Dimensions		Current capacity		Compatible plug (reference)
		D	L	Per pin	Per unit	
CB04JP	4	φ 15.0	(2.5)	3A	12.0A	G6A10-4SNE-JG
CB08JP	8	φ 19.1			24.0A	G6A12-88SNE-JG
CB12JP	12	φ 22.2			36.0A	G6A14-92SNE-JG
CB19JP	19	φ 25.4			49.4A	G6A16-19SNE-JG
CB22JP	22	φ 28.6			57.2A	G6A18-22SNE-JG
CB30JP	30	φ 31.8	(2)		78.0A	G6A20-30SNE-JG
CB38JP	38	φ 34.9			98.8A	G6A22-38SNE-JG
CB48JP	48	φ 38.1			124.8A	G6A24-48SNE-JG

### Common specifications

Withstand voltage (test voltage): DC 500 V	Insulation resistance: 1000 MΩ or more (at DC 500 V)	Hermeticity: 1x10 <sup>-10</sup> Pa·m <sup>3</sup> /s or less
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# Multipin Connector Single-side plug mating (single) type / #16 straight pins, thermocouple With Ø34 ConFlat flange



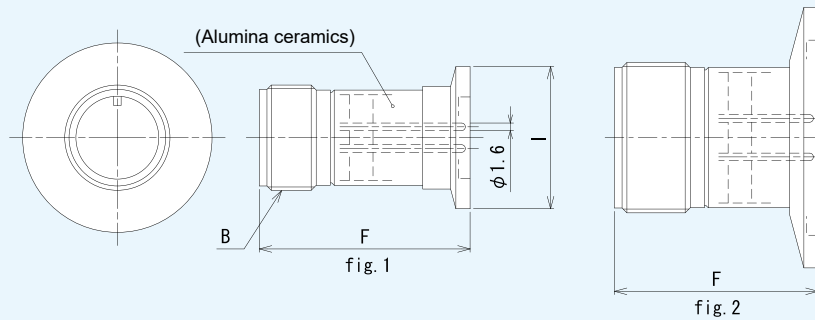
Part materials: Alumina ceramics, Fe-Ni, SUS304, etc.  
Joining method: Silver brazing and TIG welding

Model -----E.g.) CM 03 JP -14S-7- CF34  
Product classification code (See the table on the right)  
Number of pins  
Terminal shape (JP: Single-side plug mating - Straight pins)  
Layout code (See page C01)  
Flange model (CF: ConFlat flange)

Product classification code	Specifications
CM	Standard type
CA	High withstand voltage type
NK	Thermocouple Chromel-alumel (Abbreviation: C/A)
NT	Thermocouple Copper-constantan (Abbreviation: C/C)
NE	Thermocouple Chromel-constantan (Abbreviation: CR/C)

Model		Number of pins	Number of channels	Withstand voltage (test voltage)	Current capacity	Insulation resistance	Hermeticity
Standard type	CM03JP-14S-7-CF34	3	<div></div>	DC 500V	See page C01	1000 MΩ or more (at DC 500 V)	1x10 <sup>-10</sup> Pa·m <sup>3</sup> /s or less
	CM04JP-14S-2-CF34	4					
	CM06JP-14S-6-CF34	6					
High withstand voltage type	CA03JP-14S-7-CF34	3		AC1500V			
	CA04JP-14S-2-CF34	4					
Thermocouple	N□03JP-14S-7-CF34	3		1			
	N□04JP-14S-2-CF34	4	2				
	N□06JP-14S-6-CF34	6	3				

# Multipin Connector Single-side plug mating (single) type / #16 straight pins, thermocouple With quick coupling flange



Part materials: Alumina ceramics, Fe-Ni, SUS304, etc.  
Joining method: Silver brazing and TIG welding

Model -----E.g.) CM 03 JP-14S-7- NW16  
Product classification code (See the table on the right)  
Number of pins  
Terminal shape (JP: Single-side plug mating - Straight pins)  
Layout code (See page C01)  
Flange model (NW: Quick coupling flange)

Product classification code	Specifications
CM	Standard type
CA	High withstand voltage type
NK	Thermocouple Chromel-alumel (Abbreviation: C/A)
NT	Thermocouple Copper-constantan (Abbreviation: C/C)
NE	Thermocouple Chromel-constantan (Abbreviation: CR/C)

	Model	Shape	Number of pins	Number of channels *1	Dimensions			Flange model *2	Withstand voltage (test voltage)
					B	F	I		
Standard type / thermocouple	□□02JP-12S-3-NW16	fig. 1	2	1	3/4-20UNEF	44.5	φ30	NW16	DC 500 V
	□□03JP-14S-7-NW16		3	1	7/8-20UNEF				
	□□04JP-14S-2-NW16		4	2					
	□□06JP-14S-6-NW16		6	3					
	□□10JP-18- 1- NW25	fig. 2	10	5	1 1/8-18UNEF	49.5	φ40	NW25	
	□□14JP-20-27-NW40		14	7	1 1/4-18UNEF	43.0	φ55	NW40	
	□□19JP-22-14-NW40		19	9	1 3/8-18UNEF				
	□□24JP-24-28-NW40		24	12	1 1/2-18UNEF				
	□□37JP-28-21-NW40	fig. 1	37	18	1 3/4-18UNS	49.5			
	□□48JP-36-10-NW50	fig. 2	48	24	2 1/4-16UN	44.5	φ75	NW50	
High withstand voltage type	CA02JP-12S-3-NW16	fig. 1	2		3/4-20UNEF	44.5	φ30	NW16	AC1500 V
	CA03JP-14S-7-NW16		3		7/8-20UNEF				
	CA04JP-14S-2-NW16		4						
	CA10JP-18- 1- NW25		10		1 1/8-18UNEF	49.5	φ40	NW25	
	CA14JP-20-27-NW40	fig. 2	14		1 1/4-18UNEF	43.0	φ55	NW40	
	CA19JP-22-14-NW40		19		1 3/8-18UNEF				
	CA24JP-24-28-NW40		24		1 1/2-18UNEF				
	CA37JP-28-21-NW40	fig. 1	37		1 3/4-18UNS	49.5			
	CA48JP-36-10-NW50	fig. 2	48		2 1/4-16UN	44.5	φ75	NW50	

## Common specifications

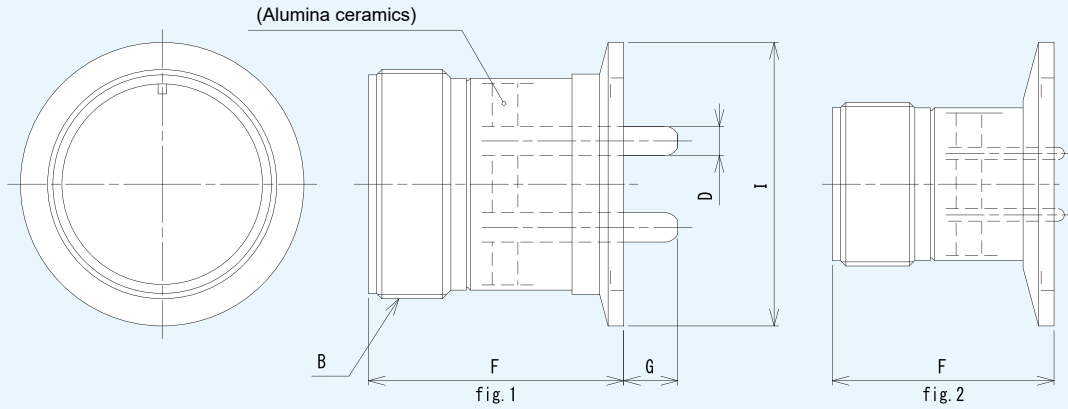
Current capacity: See page C01 \*3    Insulation resistance: 1000 MΩ or more (at DC 500 V)    Hermeticity: 1x10<sup>-10</sup> Pa·m<sup>3</sup>/s or less

\*1 Thermocouple specifications

\*2 Flange models with the smallest weldable diameter are listed.

\*3 Standard type / high withstand voltage type specifications

# Multipin Connector Single-side plug mating (single) type / #12 to #0 straight pin With quick coupling flange



Part materials: Alumina ceramics, Fe-Ni, SUS304, etc.  
Joining method: Silver brazing and TIG welding

Model -----E.g.) C A 07 JP -20-15- NW40  
Product classification code (C: Multipin connector)  
Withstand voltage code (A: AC 1500 V)  
Number of pins  
Terminal shape (JP: Single-side plug mating - Straight pins)  
Layout code (See page C02)  
Flange model (NW: Quick coupling flange)

Model	Shape	Number of pins	Dimensions					Flange model *1	Withstand voltage (test voltage)
			B	D	F	G	I		
CA04JP-20- 4-NW40	fig.2	4	1 1/4-18UNEF	φ2.4 (#12)	43.0	(2.0)	φ55	NW40	AC 1500 V
CA07JP-20-15-NW40		7							
CA08JP-22-23-NW40		8							
CA19JP-32-J19-NW50		19	2 -18UNS		44.5	(0.5)	φ75	NW50	
CA27JP-36-J2-NW50		27	2 1/4-16UN						
CA03JP-22-2-NW40		3	1 3/8-18UNEF	φ3.6 (#8)	43.0	(13.0)	φ55	NW40	
CA04JP-24-22-NW40		4	1 1/2-18UNEF						
CA03JP-28-6-NW40	fig. 1	3	1 3/4-18UNS	φ5.7 (#4)	49.5	(10.5)	φ75	NW50	
CA04JP-32-17-NW50	fig.2	4	2 -18UNS	φ9.1 (#0)	43.0	(17.0)			
CA04JP-36-5-NW50		4	2 1/4-16UN		44.5	(15.5)			

## Common specifications

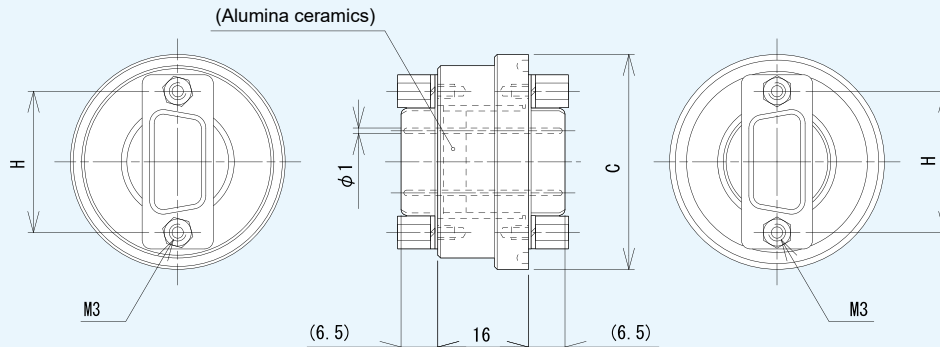
Current capacity: See page C02

Insulation resistance: 1000 M $\Omega$  or more (at DC 500 V)

Hermeticity: 1x10<sup>-10</sup> Pa·m<sup>3</sup>/s or less

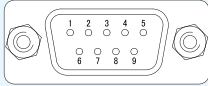
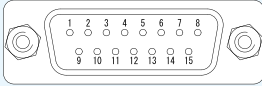

\*1 Flange models with the smallest weldable diameter are listed.

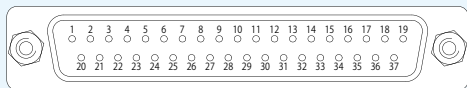
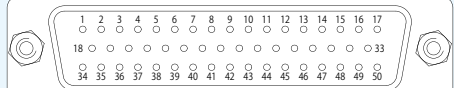
## Multipin Connector Double-side plug mating (double) type / Dsub series



Part materials: Alumina ceramics, Fe-Ni, SUS304, etc.  
Joining method: Silver brazing and TIG welding

Model ----- E.g.) CD 09 JJ  
Product classification code (CD: Multipin connector - Dsub series)  
Number of pins  
Terminal shape (JJ: Double-side plug mating)

Mating surface			
Configuration	9P (Shell size: E)	15P (Shell size: A)	25P (Shell size: B)

Mating surface		
Configuration	37P (Shell size: C)	50P (Shell size: D)

- The mating surface is on the left side of the figure in the catalog.
- Pin numbers are indicated in the figures only.

Model	Number of pins	Dimensions		Current capacity per pin	Compatible plug (reference)
		C	H		
CD09JJ	9	φ38	24.99	1A	DE-9SF-N
CD15JJ	15	φ46	33.32		DA-15SF-N
CD25JJ	25	φ60	47.04		DB-25SF-N
CD37JJ	37	φ76	63.50		DC-37SF-N
CD50JJ	50	φ74	61.11		DD-50SF-N

Common specifications		
Withstand voltage (test voltage): AC 200 V	Insulation resistance: 1000 MΩ or more (at DC 250 V)	Hermeticity: 1x10 <sup>-10</sup> Pa·m <sup>3</sup> /s or less