

JR SERIES SHELL SIZE 13-25 ALUMINUM CONNECTORS

7255

Scope

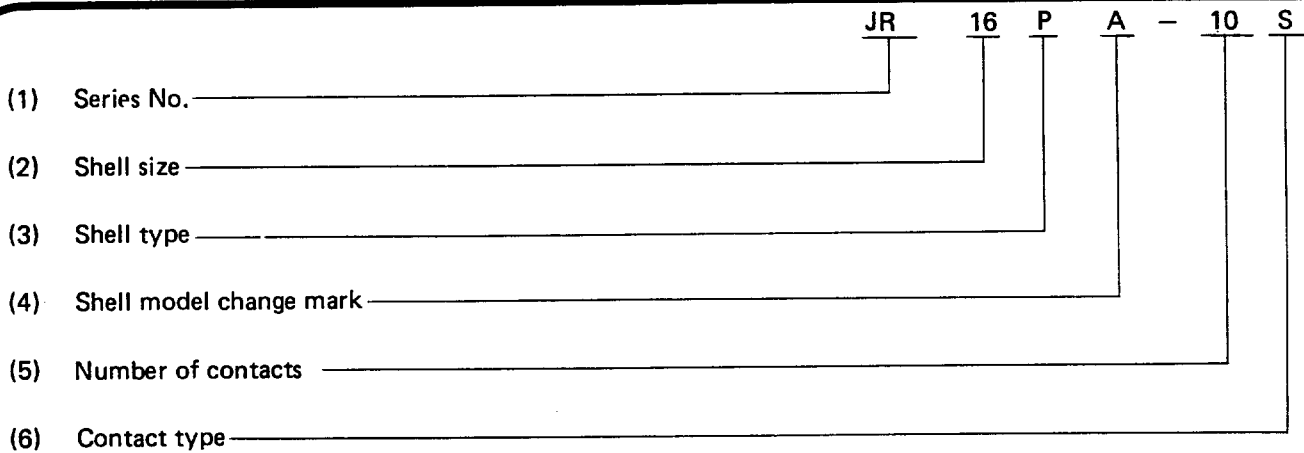
There is a Japanese standard titled JIS C 5432: "Electronic Equipment Round Type Connectors." JIS C 5432 is especially aiming at future standardization of new connectors. JR series connectors are designed to meet this specification. JR series connectors offer excellent performance

both electrically and mechanically. They have five keys in the fitting section to assure smooth coupling. A waterproof type is available. Contact arrangement performance of the pins is shown on page 172.

Material and Finish

Part name	Material	Finish
Shell	Aluminum alloy	Nickel plated
Insulator	Synthetic	
Pin contact	Copper alloy	Silver plated
Socket contact	Copper alloy	Silver plated

Ordering Information

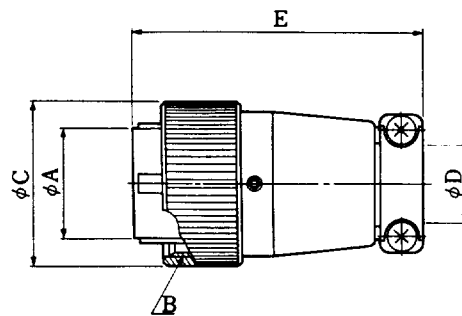
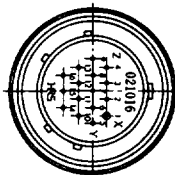
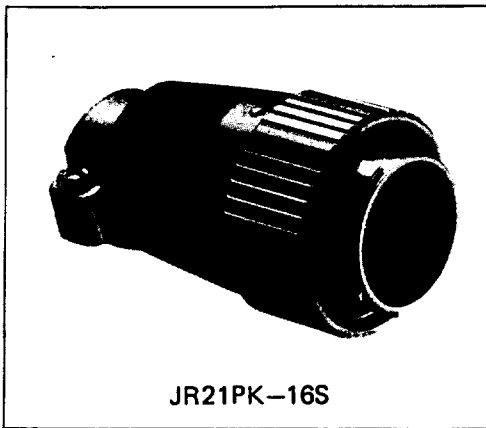


- (1) Series No.: JR stands for JIS Round Connector
- (2) Shell size: The shell size is 13, 16, 21, and 25
- (3) Shell type:
 - P: Plug
 - J: Jack
 - R: Receptacle
 - RC: Receptacle Cap
 - BP: Bayonet Lock Type Plug
 - BR: Bayonet Lock Type Receptacle
 - WP: Waterproof Type Plug
 - WR: Waterproof Type Receptacle

- (4) Shell model change mark: Any change of shell configuration involves a new symbol mark A, B, D, E, and so on. C, J, P, and R, which are used for other connectors, are not used.
- (5) Number of contacts
- (6) Contact type:
 - P: Pin contact
 - PC: Crimp Pin Contact
 - S: Socket contact
 - SC: Crimp Socket Contact

Plug

(Soldering Type)



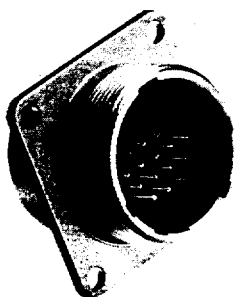
(An example in shape)

HRS No.	Part No.	No. of pins	ϕA	B	ϕC	ϕD	E	JIS No.
114-0501-7	JR13PK-3P	3	12.7	M18x1	21.8	8.5	45.5	CNR01SPM013003
114-0502-0	JR13PK-5P	5	12.7	M18x1	21.8	8.5	45.5	CNR01SPM013005
114-0503-2	JR16PK-7P	7	16.3	M22x1	25.8	11.5	49.5	CRN01SPM016007
114-0504-5	JR16PK-10P	10	16.3	M22x1	25.8	11.5	49.5	CNR01SPM016010
114-0505-8	JR21PK-10P	10	20.5	M26x1	29.8	15	53.5	CNR01SPM021010
114-0506-0	JR21PK-16P	16	20.5	M26x1	29.8	15	53.5	CNR01SPM021016
114-0507-3	JR25PK-16P	16	24.7	M30x1	33.8	18	56.5	CNR01SPM025016
114-0508-6	JR25PK-24P	24	24.7	M30x1	33.8	18	56.5	CNR01SPM025024
114-0552-8	JR25PK-4P	4	24.7	M30x1	33.8	18	56.5	—————
114-0554-3	JR25PK-5P	5	24.7	M30x1	33.8	18	56.5	—————
114-0556-9	JR25PK-8P	8	24.7	M30x1	33.8	18	56.5	—————

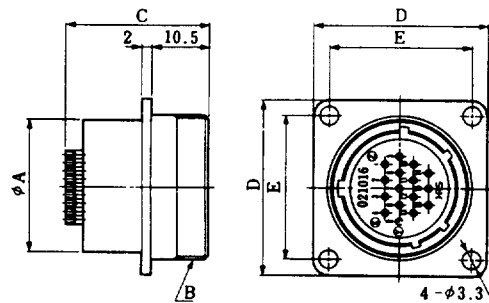
HRS No.	Part No.	No. of pins	ϕA	B	ϕC	ϕD	E	JIS No.
114-0509-9	JR13PK-3S	3	12.7	M18x1	21.8	8.5	45.5	CNR01SPF013003
114-0510-8	JR13PK-5S	5	12.7	M18x1	21.8	8.5	45.5	CNR01SPF013005
114-0511-0	JR16PK-7S	7	16.3	M22x1	25.8	11.5	49.5	CNR01SPF016007
114-0512-3	JR16PK-10S	10	16.3	M22x1	25.8	11.5	49.5	CNR01SPF016010
114-0513-6	JR21PK-10S	10	20.5	M26x1	29.8	15	53.5	CNR01SPF021010
114-0514-9	JR21PK-16S	16	20.5	M26x1	29.8	15	53.5	CNR01SPF021016
114-0515-1	JR25PK-16S	16	24.7	M30x1	33.8	18	56.5	CNR01SPF025016
114-0516-4	JR25PK-24S	24	24.7	M30x1	33.8	18	56.5	CNR01SPF025024
114-0553-0	JR25PK-4S	4	24.7	M30x1	33.8	18	56.5	—————
114-0555-6	JR25PK-5S	5	24.7	M30x1	33.8	18	56.5	—————
114-0557-1	JR25PK-8S	8	24.7	M30x1	33.8	18	56.5	—————

Note: Fasten a screw by means of torque wrench at 3.5~4.5kg·cm

Receptacle



JR21RK-16P

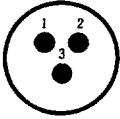
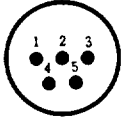


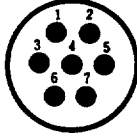
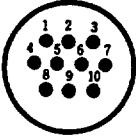
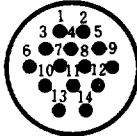
(An example in shape)

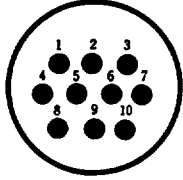
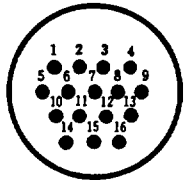
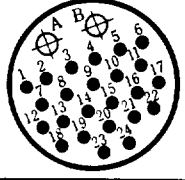
HRS No.	Part No.	No. of pins	φA	B	C	D	E	JIS No.
114-0517-7	JR13RK-3P	3	15.9	M18x1	26.6	26	20	CNR01SRM013003
114-0518-0	JR13RK-5P	5	15.9	M18x1	26.1	26	20	CNR01SRM013005
114-0519-2	JR16RK-7P	7	19.9	M22x1	26.6	29	23	CNR01SRM016007
114-0520-1	JR16RK-10P	10	19.9	M22x1	26.1	29	23	CNR01SRM016010
114-0521-4	JR21RK-10P	10	23.9	M26x1	26.6	32	26	CNR01SRM021010
114-0522-7	JR21RK-16P	16	23.9	M26x1	26.1	32	26	CNR01SRM021016
114-0523-0	JR25RK-16P	16	27.9	M30x1	26.6	35	29	CNR01SRM025016
114-0524-2	JR25RK-24P	24	27.9	M30x1	26.1	35	29	CNR01SRM025024
114-0558-4	JR25RK-4P	4	27.9	M30x1	28	35	29	—————
114-0560-6	JR25RK-5P	5	27.9	M30x1	26.6	35	29	—————
114-0562-1	JR25RK-8P	8	27.9	M30x1	26.6	35	29	—————

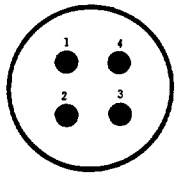
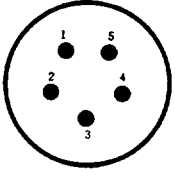
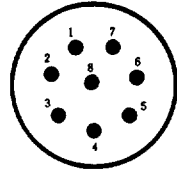
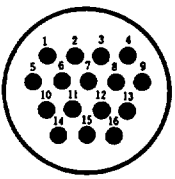
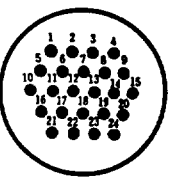
HRS No.	Part No.	No. of pins	φA	B	C	D	E	JIS No.
114-0525-5	JR13RK-3S	3	15.9	M18x1	28	26	20	CNR01SRF013003
114-0526-8	JR13RK-5S	5	15.9	M18x1	27	26	20	CNR01SRF013005
114-0527-0	JR16RK-7S	7	19.9	M22x1	28	29	23	CNR01SRF016007
114-0528-3	JR16RK-10S	10	19.9	M22x1	27	29	23	CNR01SRF016010
114-0529-6	JR21RK-10S	10	23.9	M26x1	28	32	26	CNR01SRF021010
114-0530-5	JR21RK-16S	16	23.9	M26x1	27	32	26	CNR01SRF021016
114-0531-8	JR25RK-16S	16	27.9	M30x1	28	35	29	CNR01SRF025016
114-0532-0	JR25RK-24S	24	27.9	M30x1	27	35	29	CNR01SRF025024
114-0559-7	JR25RK-4S	4	27.9	M30x1	28	35	29	—————
114-0561-9	JR25RK-5S	5	27.9	M30x1	27.8	35	29	—————
114-0563-4	JR25RK-8S	8	27.9	M30x1	27.8	35	29	—————

JR Series Contact Arrangement

Shell size		
13		
No. of pins	3	5
Withstanding voltage	AC1000V a minute	AC1000V a minute
Current rating	10A	5A
Insulation resistance	1000MΩ MIN.	1000MΩ MIN.
Contact resistance	5mΩ MAX.	5mΩ MAX.
Solder cup dia.	1.7φ	1.1φ

Shell size			
16			
No. of pins	7	10	14
Withstanding voltage	AC1000V a minute	AC1000V a minute	AC1000V a minute
Current rating	10A	5A	5A
Insulation resistance	1000MΩ MIN.	1000MΩ MIN.	1000MΩ MIN.
Contact resistance	5mΩ MAX.	5mΩ MAX.	5mΩ MAX.
Solder cup dia.	1.7φ	1.1φ	1.1φ

Shell size				
21				
No. of pins	10	16	26	
Withstanding voltage	AC1000V a minute	AC1000V a minute	AC 1000V a minute	
Current rating	10A	5A (CRIMP 3A)	5A	10A (only A, B)
Insulation resistance	1000MΩ MIN.	1000MΩ MIN.	1000MΩ MIN.	
Contact resistance	5mΩ MAX.	5mΩ MAX. (CRIMP 10mΩ)	5mΩ MAX.	
Solder cup dia.	1.7φ	1.1φ	1.1φ	1.7φ (only A, B)

Shell size					
25					
No. of pins	4	5	8	16	24
Withstanding voltage	AC3000V a minute	AC3000V a minute	AC3000V a minute	AC1000V a minute	AC1000V a minute
Current rating	30A	10A	10A	10A	5A (CRIMP 3A)
Insulation resistance	10,000MΩ MIN.	10,000MΩ MIN.	10,000MΩ MIN.	1000MΩ MIN.	1000MΩ MIN.
Contact resistance	5mΩ MAX.	5mΩ MAX.	5mΩ MAX.	5mΩ MAX.	5mΩ MAX. (CRIMP 10mΩ)
Solder cup dia.	3.4φ	1.7φ	1.7φ	1.7φ	1.1φ

Remarks: 1. View direction: Mating surface of pin insert.
2. The withstand voltage is the test value.