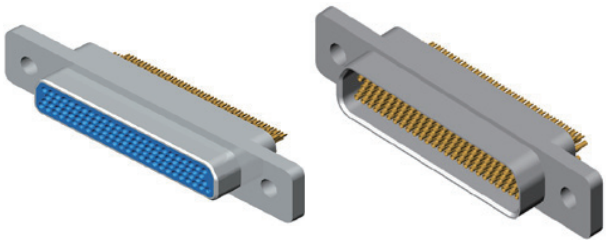
MIL-DTL-83513 Micro-D Connectors

R04J Series Solder Cup Connectors



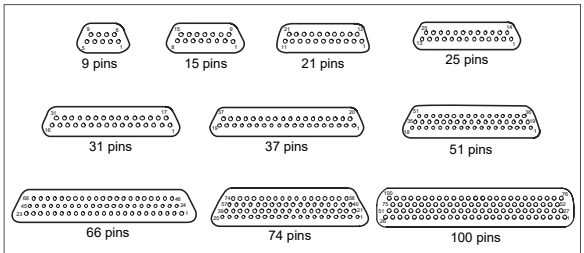
Brief Introduction

- Micro-D Connectors
- Twist Pin Contacts, High Density
- Metal Shell, Nickel or Cadmium Plating
- Solder Cup Connectors
- Meets MIL-DTL-83513

Specifications

■Environment Temperature:	-55℃~+125℃
■Vibration:	10Hz~2000Hz,196m/s²
■Random Vibration:	Power spectrum density 0.4G²/Hz root mean square value of total acceleration 23.1G
■Shock:	735m/s² 11ms
■Rated Current:	3A
■Contact Resistance:	≤10mΩ
■Insulation Resistance:	≥5000MΩ
■Dielectric Strength:	800V
■Durability:	500 times

Contact Arrangements



How To Order

Sample Part Number	R04J	-25	PI	J	W	G	A3

Series:
R04J—Standard Type
R04JS—Glue Sealing
R04JS1—Glass-Sintered Sealing (See page 44 to 45)

Contact Number:
9, 15, 21, 25, 31, 37, 51, 66, 74, 100pins

Contact Type :
PI—Pin in Plug RH—Socket in Receptacle

Tail Termination Type:
J—Solder Cup

Locking Hardware Type:
W—Locking Hardware (See page 2) No Code—No Locking Hardware

Shell Material and Finish :
G—Aluminum Shell, Cadmium Plating No Code—Aluminum Shell, Nickel Plating

Cable Clamp Type:
A3—Cable Clamp (See page 3) No Code—No Cable Clamp

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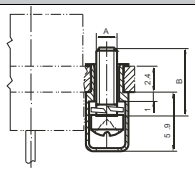
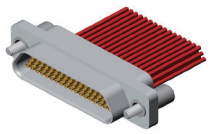
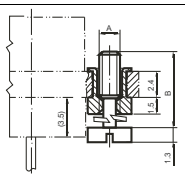
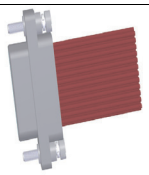
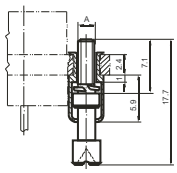
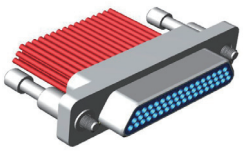
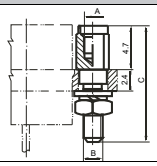
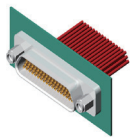
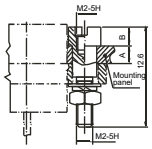
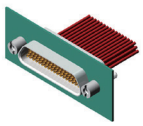
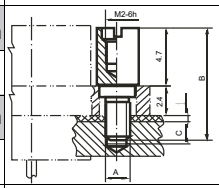
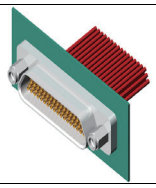
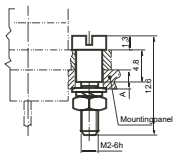
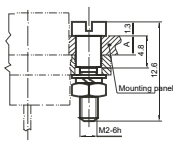
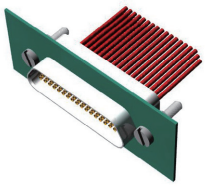
Free End Locking Hardware For R04J Series Solder Cup Connectors

Type	A	B	Outline Dimensions	Assembly Picture	Matched with Locking Hardware
W	M2-6h	7.1			Q,Q0,Q2,Q3,Q4,Q5,Q7,Q8,Q9,Q10,Q11, Q14,Q15,Q17,Q23,Q25,Q29,Q32,Q35, Q36,Q37,Q41,Q42,Q43,Q45,Q46
W8	#2-56UNC-2A	7.1			Q1
W7	M2-6h	7.1			Q,Q0,Q2,Q3,Q4,Q5,Q7,Q8,Q9,Q10,Q11, Q14,Q15,Q17,Q23,Q25,Q29,Q32,Q35, Q36,Q37,Q41,Q42,Q43,Q45,Q46
N	M2-6h				Q,Q0,Q2,Q3,Q4,Q5,Q7,Q8,Q9,Q10,Q11, Q14,Q15,Q17,Q23,Q25,Q29,Q32,Q35, Q36,Q37,Q41,Q42,Q43,Q45,Q46
N1	#2-56UNC-2A				Q1

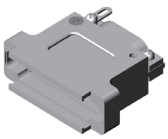
Fixed End Locking Hardware For R04J Series Solder Cup Connectors

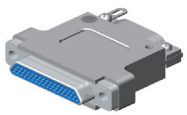
Type	A	B	C	Outline Dimensions	Assembly Picture	Matched with Locking Hardware	
Q	M2-6h	M2-6h	12.6			W, W7, W9, N	Note: Use with front panel mounting solder cup connectors
Q1	#2-56UNC-2B	#2-56UNC-2A	12.6			W8, N1	
Q8	M2-6h	M2-6h	15.6			W,W7,W9,N	
Q9	M2-6h	M2-6h	21.6			W,W7,N	
Q0	4.1	0.6	12.6			W, W7, W9, N Note: Use with rear panel mounting solder cup connectors	
Q3	3.3	1.4	12.6				
Q4	2.5	2.2	12.6				
Q11	1.3	3.4	12.6				
Q45	2.7	2	20				
Q29	M3-6h	10.5	3.3min			W,W7,W9,N Note:1. Use with front panel mounting solder cup connectors 2. For R04JS series	
Q36	M3-6h	14.7	6min				
Q37	M2-6h	10	2.8min				
Q43	M3-6h	11.7	4min				
Q44	 Front Panel Mounting			 Rear Panel Mounting		Note: 1. No need to lock with free end locking hardware 2. Front panel mounting, "A" dimension is 2.5~3.5mm 3. Rear panel mounting, (1)Mated with connectors without locking hardware, "A" dimension is 3.5mm max (2)Mated with connectors with fixed end locking hardware, "A" dimension is 4.9mm minus 1.3mm (The distance between bolt and flange of connector)	

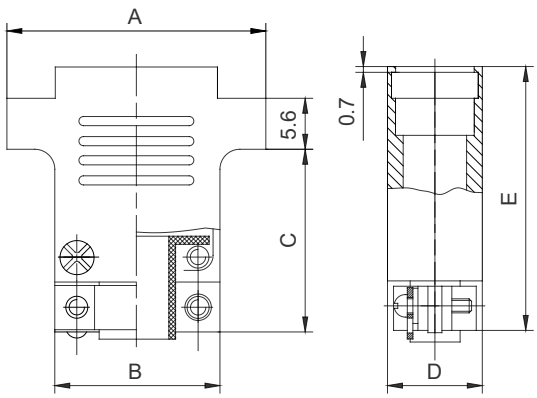
Remark:1. Fixed end locking hardware apply to fix the connectors on the mounting panels or the PCB. Most fixed end locking hardware can be mated with free end locking hardware, but a little can not. (eg. Q44)
2. All dimensions are in mm.

R04J Series A3 Cable Clamp

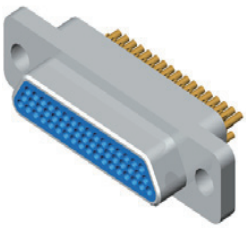
Stereogram	Outline Dimensions					
	Pin Count	A	B	C	D	E
Outline Dimensions	9	19.6	9.9	18.2	10.4	27
	15	23.5	13.8	18.2	10.4	27
	21	27.4	17.6	19.2	10.4	28
	25	29.8	20.2	19.2	10.4	28
	31	33.6	24	19.2	10.4	28
	37	37.4	27.8	19.2	10.4	28
	51	36.4	26.6	21.2	11.2	30
Using Conditions	66	42.9	29.1	21.2	11.2	30
1.For R04J Solder Cup Basic Type 2.For R04J Crimp Basic Type	74	38.8	29.1	21.2	12	30
	100	54.7	40.7	21.2	12	30

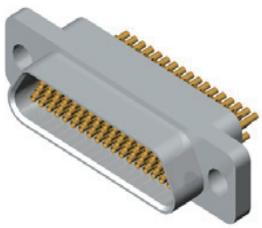

Only A3 Cable


Clamp Plug With A3 Cable Clamp



R04J Series Solder Cup Connectors - Basic Type

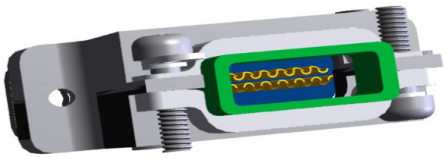

Plug:PIJ


Receptacle:RHJ

- **Shell Plating:** Nickel or Cadmium
- **The Spacing of Arrangements of The Tail:**1.27x1.1mm
- **Termination Type:** Solder Cup
- **Contacts:**
  R04J- 9, 15, 21, 25, 31, 37, 51, 66, 74, 100 PIJ/RHJ

R04J Series Solder Cup Basic Type Assembled With Cable Clamp


Look From Connecting End


Look From The End of Cable Clamp

Remark:1.Example of R04J series solder cup connectors with A3 cable clamp.
2.All dimensions are in mm.

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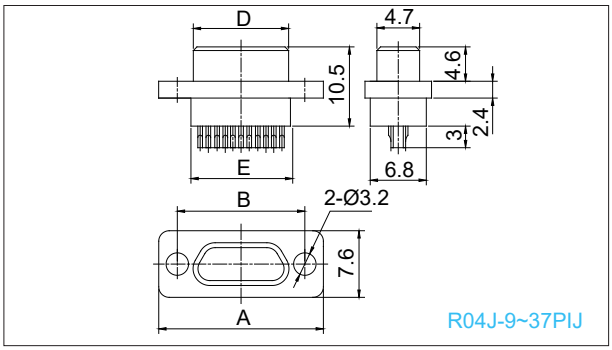
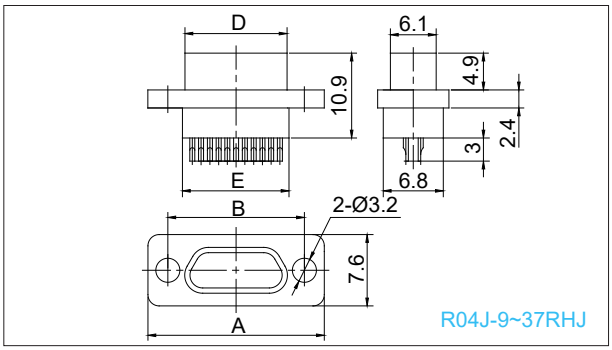
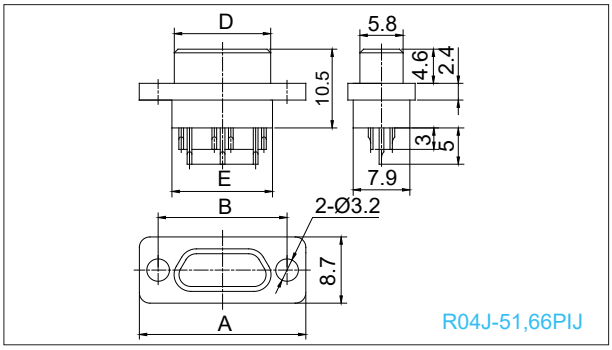
Outline Dimensions



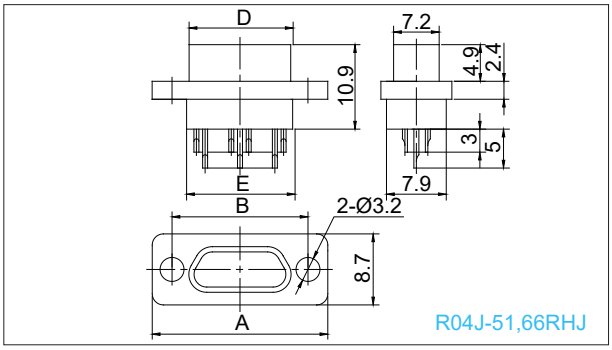
R04J-9~37PIJ



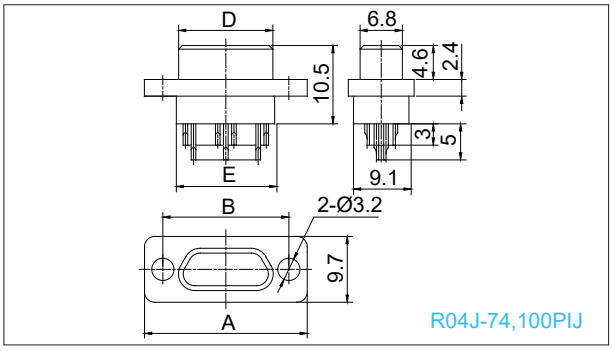
R04J-9~37RHJ



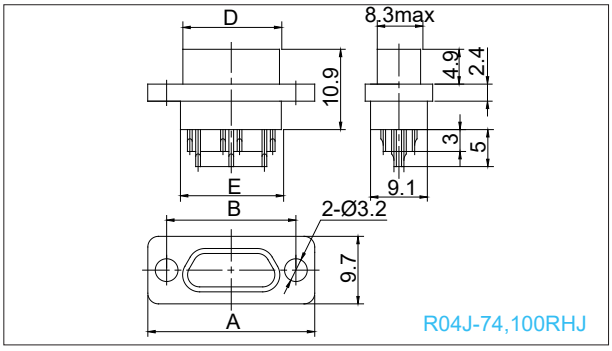
R04J-51,66PIJ



R04J-51,66RHJ



R04J-74,100PIJ

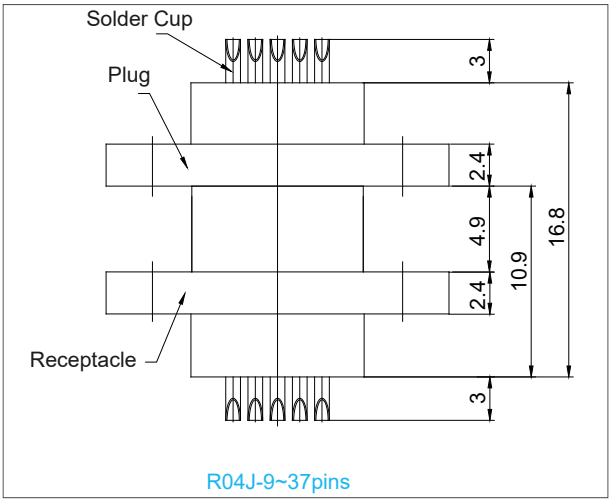


R04J-74,100RHJ

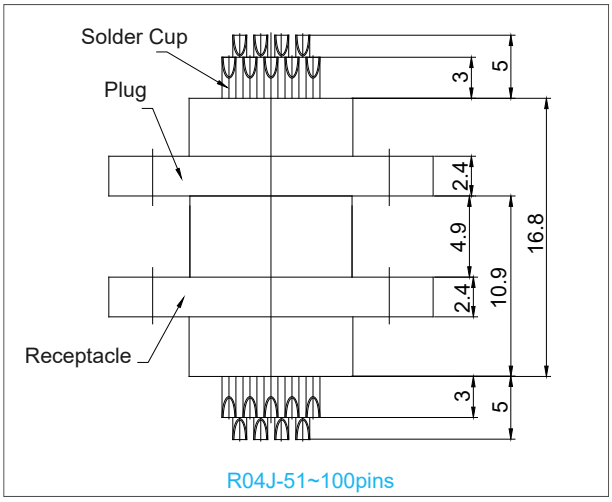
Part Number	A	B	D		E
			PIJ	RHJ	
R04J-9PIJ/RHJ	19.6	14.3	8.3	9.8	9.9
R04J-15PIJ/RHJ	23.5	18.2	12.3	13.7	13.8
R04J-21PIJ/RHJ	27.4	22	16	17.4	17.6
R04J-25PIJ/RHJ	29.8	24.5	18.6	20	20.2
R04J-31PIJ/RHJ	33.6	28.3	22.4	23.8	24
R04J-37PIJ/RHJ	37.4	32.2	26.3	27.7	27.8
R04J-51PIJ/RHJ	36.4	30.86	25	26.5	26.6
R04J-66PIJ/RHJ	42.9	37.3	31.4	32.9	33
R04J-74PIJ/RHJ	38.8	33.5	27.5	29	29.1
R04J-100PIJ/RHJ	54.7	45.7	35	36.6	36.3

Remark:All dimensions are in mm.

Outline Dimensions After Mating (Without A3 Cable Clamp)

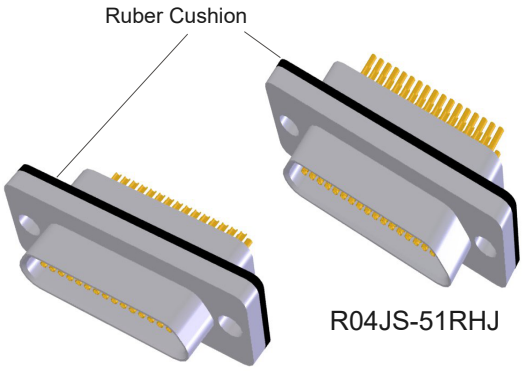


R04J-9~37pins



R04J-51~100pins

R04J Series Solder Cup Type - Glue Sealing Connectors

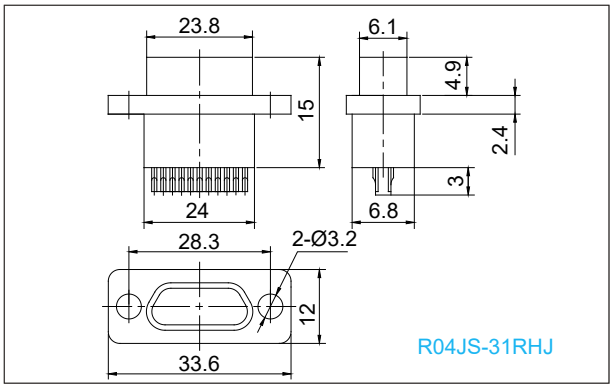


R04JS-51RHJ

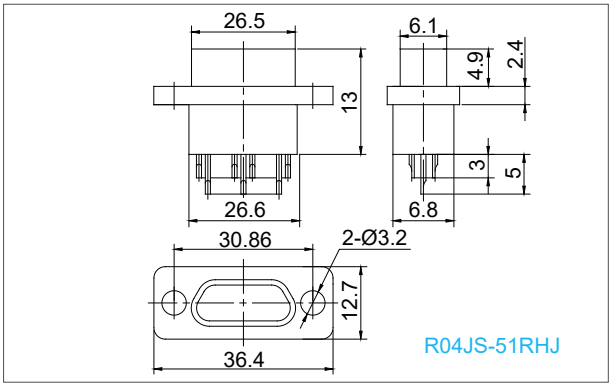
R04JS-31RHJ

- **Shell Plating:** Nickel or Cadmium
- **The Spacing of Arrangements of The Tail:** 1.27x1.1mm
- **Termination Type:** Solder Cup
- **The Flange with A Rubber Cushion,Thickness:** 1mm
- **Glue Sealing Connectors (Receptacle Only)**
- **The Air Leakage Rate:** 5×10^{-2}Pa.CM^3/s
- **Insulation Resistance:** ≥2000MΩ
- **Contacts:** R04JS-31,51RHJ

Outline Dimensions



R04JS-31RHJ



R04JS-51RHJ

Remark:All dimensions are in mm.

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