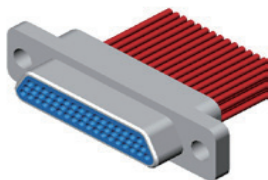


MIL-DTL-83513 Micro-D Connectors



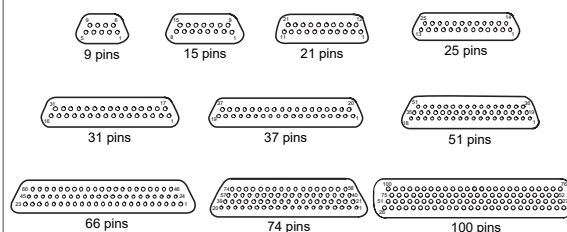
Brief Introduction

- Micro-D Connectors
- Twist Pin Contacts, High Density
- Metal Shell, Nickel or Cadmium Plating
- Crimping Connectors
- The Sectional Area of Cable: $0.1\text{mm}^2 \sim 0.15\text{mm}^2$, 0.07mm^2
- Meets MIL-DTL-83513

Specifications

- Environment Temperature: -55°C~+125°C
- 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

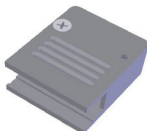
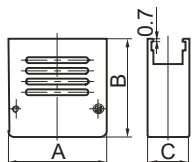
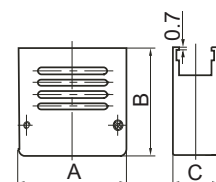
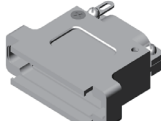
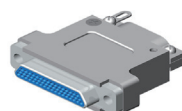
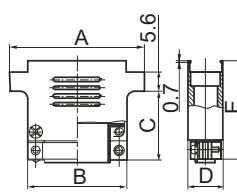
Sample Part Number	R04J*	-25	PI	W7	G	A1	-26	9	10
Series: R04J—Standard Type R04JA—Fast Lock Type R04JC—Sn-P Bronze Shell, Nickel Plating									
Contact Number: 9, 15, 21, 25, 31, 37, 51, 66, 74, 100pins									
Contact Type: PI—Pin in Plug RH—Socket in Receptacle									
Locking Hardware Type: W7—Locking 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: A1—Cable Clamp (See page 3) No Code—No Cable Clamp									
Wire Gage: 26—AWG26									
Wire Color: 9—White T—Ten Color Repeating									
Wire Length: 10—Wire Length in cm. "10" Specifies 10cm									

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
W9					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 Note: W9 is just suitable for R04JD series product.
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

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 crimping 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 crimping 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 crimping 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)			

2. All dimensions are in mm.

R04J Series Cable Clamp

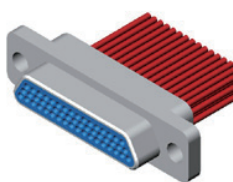
Type	Stereogram			Outline Dimensions			Using Conditions				
A1							1. For R04J Crimp Basic Type 2. For Free End Locking Hardware				
	Only A1 Cable Clamp	Plug With A1 Cable Clamp									
A2							For R04J-9~51PI/RH-Q8				
	Only A2 Cable Clamp	Plug With A2 Cable Clamp									
A3							1.For R04J Crimp Basic Type 2.For R04J Solder Cup Basic Type				
	Only A3 Cable Clamp	Plug With A3 Cable Clamp									
Pin Count	A1			A2			A3				
	A	B	C	A	B	C	A	B	C	D	E
9	9.9	23.6	10.4	11.7	22	13.4	19.6	9.9	18.2	10.4	27
15	13.8	23.8	10.4	15.6	22	13.4	23.5	13.8	18.2	10.4	27
21	17.6	23.6	10.4	19.4	22	13.4	27.4	17.6	19.2	10.4	28
25	20.2	23.6	10.4	22	22	13.4	29.8	20.2	19.2	10.4	28
31	24	23.6	10.4	25.8	22	13.4	33.6	24	19.2	10.4	28
37	27.8	23.6	10.4	29.6	22	13.4	37.4	27.8	19.2	10.4	28
51	26.6	26.6	11.2	28.4	22	14.6	36.4	26.6	21.2	11.2	30
66	33	26.6	11.2	---	---	---	42.9	29.1	21.2	11.2	30
74	29.1	30	12	---	---	---	38.8	29.1	21.2	12	30
100	40.7	30	12	---	---	---	54.7	40.7	21.2	12	30

Remark: All dimensions are in mm.

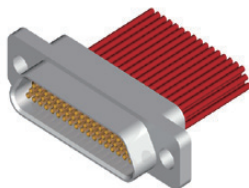


R04J Series Crimping Connectors - Standard Type

- **Contacts:** R04J- 9, 15, 21, 25, 31, 37, 51, 66, 74, 100 PI /RH(G)
- **Shell Plating:** Nickel or Cadmium



Plug:PI



Receptacle:RH

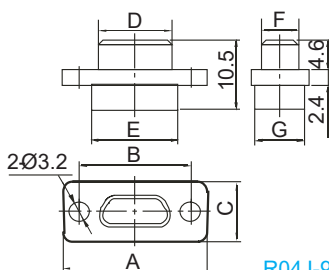


Plug:PIG

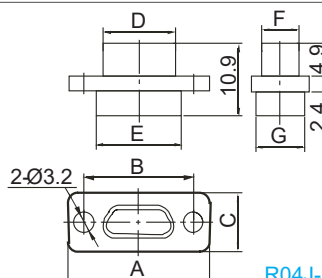


Receptacle:RHG

Outline Dimensions



R04J-9~100PI

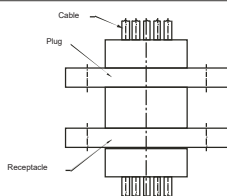


R04J-9~100RH

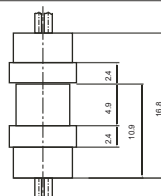
Part Number	A	B	C	D	E	F	G
R04J-9PI/PIG	19.6	14.3	7.6	8.3	9.9	4.7	6.8
R04J-15PI/PIG	23.5	18.2	7.6	12.3	13.8	4.7	6.8
R04J-21PI/PIG	27.4	22	7.6	16	17.6	4.7	6.8
R04J-25PI/PIG	29.8	24.5	7.6	18.6	20.2	4.7	6.8
R04J-31PI/PIG	33.6	28.3	7.6	22.4	24	4.7	6.8
R04J-37PI/PIG	37.4	32.2	7.6	26.3	27.8	4.7	6.8
R04J-51PI/PIG	36.4	30.86	8.7	25	26.6	5.8	7.9
R04J-66PI/PIG	42.9	37.3	8.7	31.4	33	5.8	7.9
R04J-74PI/PIG	38.8	33.5	9.7	27.5	29.1	6.8	9.1
R04J-100PI/PIG	54.7	45.7	9.7	35	36.6	6.8	9.1
R04J-9RH/RHG	19.6	14.3	7.6	9.8	9.9	6.1	6.8
R04J-15RH/RHG	23.5	18.2	7.6	13.7	13.8	6.1	6.8
R04J-21RH/RHG	27.4	22	7.6	17.4	17.6	6.1	6.8
R04J-25RH/RHG	29.8	24.5	7.6	20	20.2	6.1	6.8
R04J-31RH/RHG	33.6	28.3	7.6	23.8	24	6.1	6.8
R04J-37RH/RHG	37.4	32.2	7.6	27.7	27.8	6.1	6.8
R04J-51RH/RHG	36.4	30.86	8.7	26.5	26.6	7.2	7.9
R04J-66RH/RHG	42.9	37.3	8.7	32.9	33	7.2	7.9
R04J-74RH/RHG	38.8	33.5	9.7	29	29.1	8.3	9.1
R04J-100RH/RHG	54.7	45.7	9.7	36.6	36.65	8.2	9.1

Remark: All dimensions are in mm.

Outline Dimensions After Mating (Without Cable Clamp)



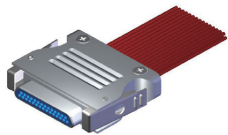
The Main View



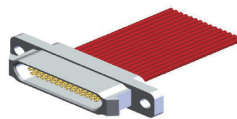
The Left View

R04JA Series Crimping Connectors

- With Fast Lock Function
- **Termination Type:** Crimp Contact
- **Contacts:** R04JA-9, 15, 21, 25, 31, 37, 51, 66, 74, 100PI/RH

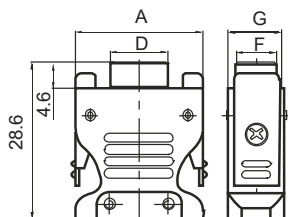


Plug:PI

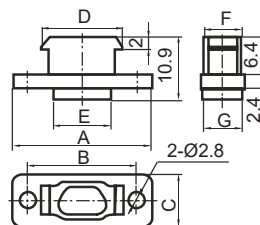


Receptacle:RH

Outline Dimensions



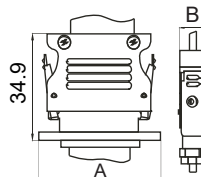
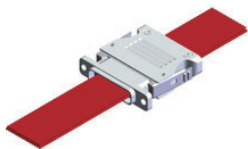
R04JA-9~100PI



R04JA-9~100RH

Part Number	A	D	F	G	Part Number	A	B	C	D	E	F	G
R04JA-9PI	18.2	8.4	4.7	8.1	R04JA-9RH	23.4	18.6	7.6	14.3	9.8	6.5	6.8
R04JA-15PI	22.1	12.3	4.7	8.1	R04JA-15RH	27.4	22.6	7.6	18.3	13.8	6.5	6.8
R04JA-21PI	25.8	16	4.7	8.1	R04JA-21RH	31.1	26.3	7.6	22	17.5	6.5	6.8
R04JA-25PI	28.4	18.6	4.7	8.1	R04JA-25RH	33.7	28.9	7.6	24.6	20.1	6.5	6.8
R04JA-31PI	32.2	22.4	4.7	8.1	R04JA-31RH	37.5	32.7	7.6	28.4	24.1	6.5	6.8
R04JA-37PI	36	26.3	4.7	8.1	R04JA-37RH	41.4	36.6	7.6	32.3	27.8	6.5	6.8
R04JA-51PI	34.8	25	5.8	10	R04JA-51RH	40.1	35.3	8.7	31	26.5	7.6	7.9
R04JA-74PI	37.3	27.5	6.8	11	R04JA-74RH	42.6	37.8	9.8	33.5	29	8.7	9
R04JA-100PI	44.8	35	6.8	11	R04JA-100RH	50.1	45.3	9.8	41	36.5	8.7	9

Outline Dimensions After Mating



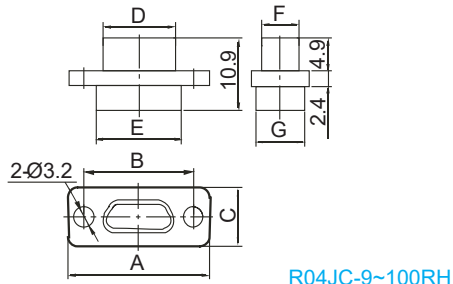
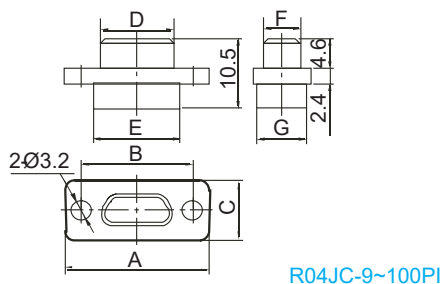
Part Number	A	B	Part Number	A	B
R04JA-9PI/RH	23.4	8.1	R04JA-37PI/RH	41.4	8.1
R04JA-15PI/RH	27.4	8.1	R04JA-51PI/RH	40.1	10
R04JA-21PI/RH	31.1	8.1	R04JA-74PI/RH	42.6	11
R04JA-25PI/RH	33.7	8.1	R04JA-100PI/RH	50.1	11
R04JA-31PI/RH	37.5	8.1			



R04JC Series Crimping Connectors

- Sn-P Bronze Shell, Nickel Plating
- **Contacts:** R04JC- 9, 15, 21, 25, 31, 37, 51, 66, 74, 100PI/RH
- **Outline Dimensions:** Same as R04J Crimping Connectors Standard Type

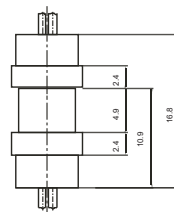
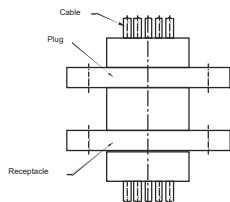
Outline Dimensions



Part Number	A	B	C	D	E	F	G
R04JC-9PI	19.6	14.3	7.6	8.3	9.9	4.7	6.8
R04JC-15PI	23.5	18.2	7.6	12.3	13.8	4.7	6.8
R04JC-21PI	27.4	22	7.6	16	17.6	4.7	6.8
R04JC-25PI	29.8	24.5	7.6	18.6	20.2	4.7	6.8
R04JC-31PI	33.6	28.3	7.6	22.4	24	4.7	6.8
R04JC-37PI	37.4	32.2	7.6	26.3	27.8	4.7	6.8
R04JC-51PI	36.4	30.86	8.7	25	26.6	5.8	7.9
R04JC-66PI	42.9	37.3	8.7	31.4	33	5.8	7.9
R04JC-74PI	38.8	33.5	9.7	27.5	29.1	6.8	9.1
R04JC-100PI	54.7	45.7	9.7	35	36.6	6.8	9.1
R04JC-9RH	19.6	14.3	7.6	9.8	9.9	6.1	6.8
R04JC-15RH	23.5	18.2	7.6	13.7	13.8	6.1	6.8
R04JC-21RH	27.4	22	7.6	17.4	17.6	6.1	6.8
R04JC-25RH	29.8	24.5	7.6	20	20.2	6.1	6.8
R04JC-31RH	33.6	28.3	7.6	23.8	24	6.1	6.8
R04JC-37RH	37.4	32.2	7.6	27.7	27.8	6.1	6.8
R04JC-51RH	36.4	30.86	8.7	26.5	26.6	7.2	7.9
R04JC-66RH	42.9	37.3	8.7	32.9	33	7.2	7.9
R04JC-74RH	38.8	33.5	9.7	29	29.1	8.3	9.1
R04JC-100RH	54.7	45.7	9.7	36.6	36.65	8.2	9.1

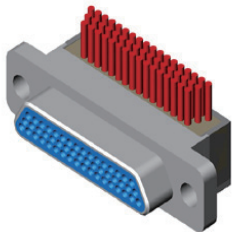
Remark: All dimensions are in mm.

Outline Dimensions After Mating (Without Cable Clamp)

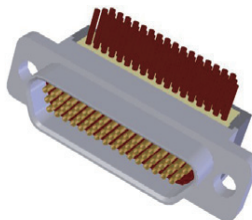


R04J Series Crimping Connectors - Extended Type C

- The Outlet Direction of Cable is Vertical to The Contacts, Crimp Termination
- **Contacts:** R04J- 9, 15, 21, 25, 31, 37, 51, 66, 74, 100 PI/RH-C

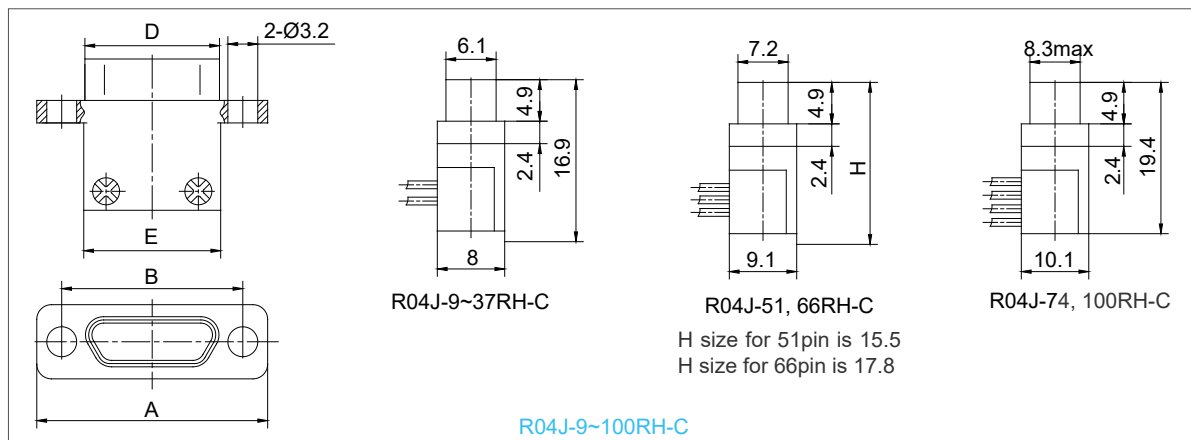
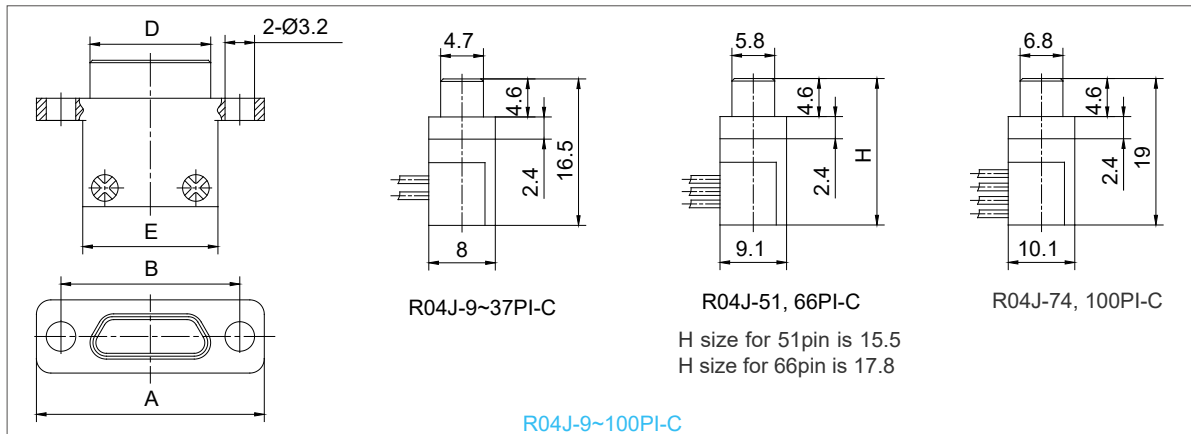


Plug:PI-C



Receptacle:RH-C

Outline Dimensions



Part Number	A	B	D		E
			PI-C	RH-C	
R04J-9PI/RH-C	19.6	14.3	8.3	9.8	9.9
R04J-15PI/RH-C	23.5	18.2	12.3	13.7	13.8
R04J-21PI/RH-C	27.4	22	16	17.4	17.6
R04J-25PI/RH-C	29.8	24.5	18.6	20	20.2
R04J-31PI/RH-C	38.6	28.3	22.4	23.8	24
R04J-37PI/RH-C	37.4	32.2	26.3	27.7	27.8
R04J-51PI/RH-C	36.4	30.86	25	26.5	26.6
RD4J-66PI/RH-C	42.9	37.3	31.4	32.9	33
RD4J-74PI/RH-C	38.8	33.5	27.5	29	29.1
R04J-100PI/RH-C	54.7	45.7	35	36.6	36.6

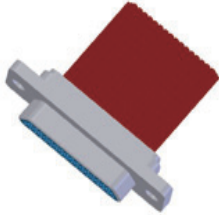
Remark: 1.All dimensions are in mm.

2.The outlet direction of cable for R04J-9~100PI-C is opposite to R04J-9~100RH-C.



R04J Series Crimping Connectors - Extended Type Q8

- The Sizes of Flange and Assembly Hole are Enlarged
- **Contacts:** R04J- 9, 15, 21, 25, 31, 37, 51, 66, 74, 100PI/RH-Q8

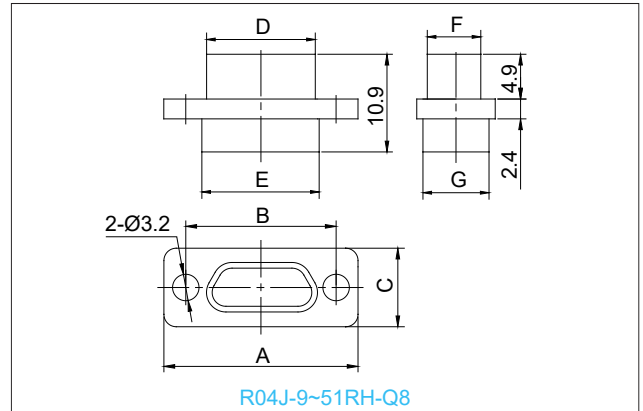
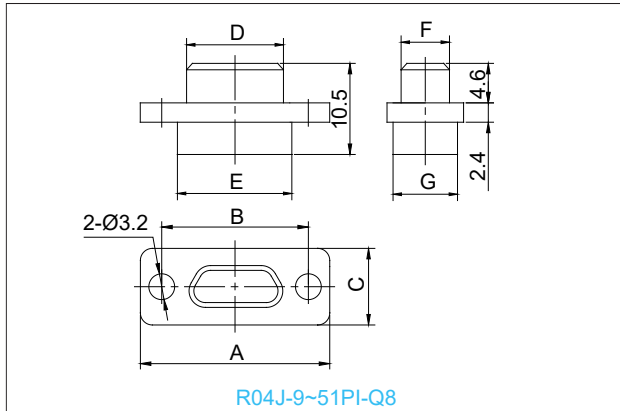


Plug:PI-Q8



Receptacle:RH-Q8

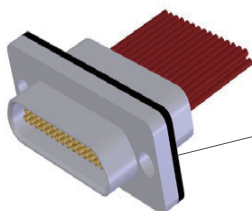
Outline Dimensions



Part Number	A	B	C	D		E	F		G
				PI-Q8	RH-Q8		PI-Q8	RH-Q8	
R04J-9PI/RH-Q8	21.4	16.1	11.6	8.3	9.8	11.7	4.7	6.1	6.8
R04J-15PI/RH-Q8	25.3	20	11.6	12.3	13.7	15.6	4.7	6.1	6.8
R04J-21PI/RH-Q8	29.2	23.8	11.6	16	17.4	19.4	4.7	6.1	6.8
R04J-25PI/RH-Q8	31.6	26.3	11.6	18.6	20	22	4.7	6.1	6.8
R04J-31PI/RH-Q8	35.4	30.1	11.6	22.4	23.8	25.8	4.7	6.1	6.8
R04J-37PI/RH-Q8	39.2	34	11.6	26.3	27.7	29.6	4.7	6.1	6.8
R04J-51PI/RH-Q8	38.2	32.6	12.6	25	26.5	28.4	5.8	7.2	7.9

Remark: All dimensions are in mm.

R04J Series Crimping Connectors- Glue Sealing Type R04JS

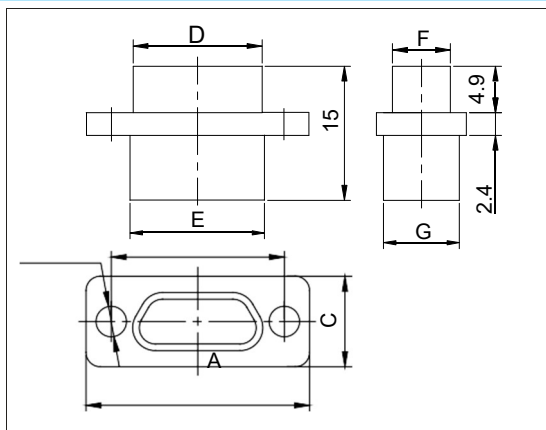


Sealing Cushion

Receptacle: R04JS-RH

- Glue Sealing
- With A Sealing Cushion, Thickness: 1mm
- **Termination Type:** Crimp Contact
- **The Air Leakage Rate:** $5 \times 10^{-2} \text{Pa} \cdot \text{CM/s}^3$
- **Insulation Resistance:** $\geq 2000 \text{M}\Omega$
- **Contacts:**
R04JS-9, 15, 21, 25, 31, 37, 51, 66, 74, 100RH

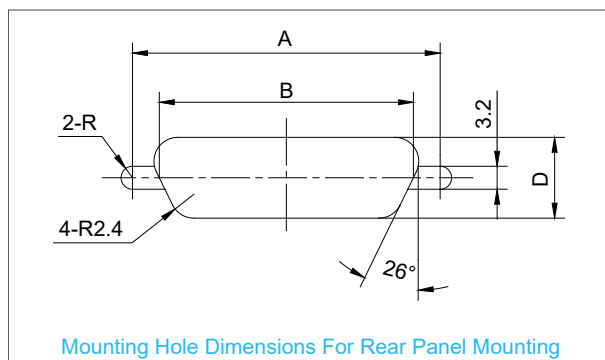
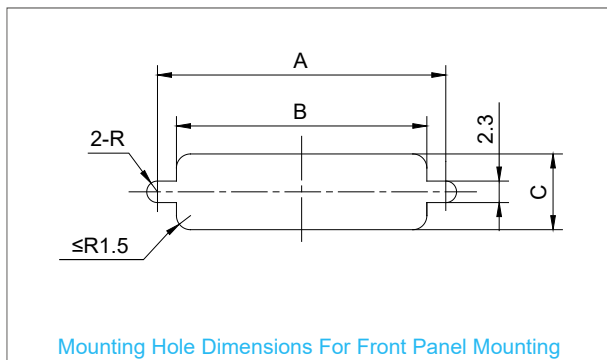
Outline Dimensions



Part Number	A	B	C	D	E	F	G
R04JS-9RH	19.6	14.3	12	9.8	9.9	6.1	6.8
R04JS-15RH	23.5	18.2	12	13.7	13.8	6.1	6.8
R04JS-21RH	27.4	22	12	17.4	17.6	6.1	6.8
R04JS-25RH	29.8	24.5	12	20	20.2	6.1	6.8
R04JS-31RH	33.6	28.3	12	23.8	24	6.1	6.8
R04JS-37RH	37.4	32.2	12	27.7	27.8	6.1	6.8
R04JS-51RH	36.4	30.86	13	26.5	26.6	7.2	7.9
R04JS-74RH	38.8	33.5	14	29	29.1	8.3	9.1
R04JS-100RH	54.7	45.7	14	36.65	36.8	3.2	9.1

R04J Series Crimping Connectors - Mounting Hole Dimensions

- **Suitable For Product:** R04J-*PI/RH, R04J-*PIG/RHG, R04JC-*PI/RH



Pin Count	A	B	C	D	Pin Count	A	B	C	D
9	14.3	10.2	7	6.3	37	32.2	28.1	7	6.3
15	18.2	14.1	7	6.3	51	30.86	26.9	8.1	7.4
21	22	17.9	7	6.3	66	37.3	33.4	8.1	7.4
25	24.5	20.5	7	6.3	74	33.5	29.4	9.3	8.6
31	28.3	24.3	7	6.3	100	45.7	37	9.3	8.6

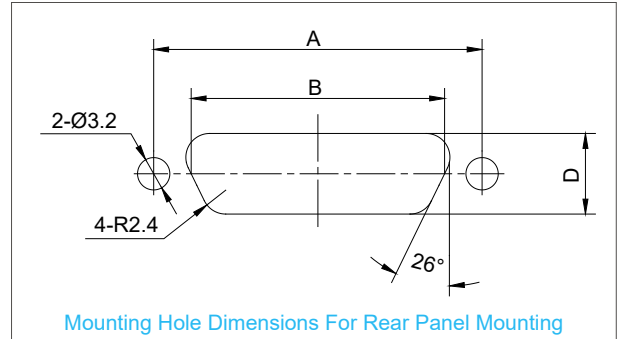
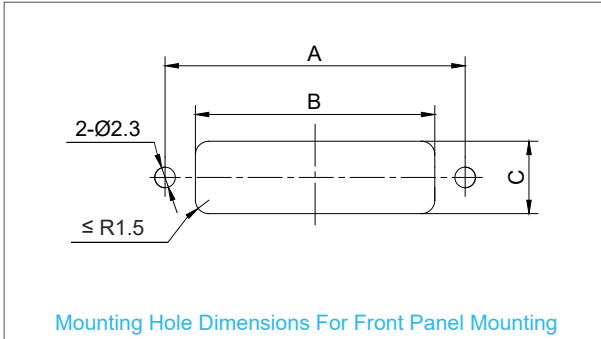
Remark: 1. R04JS is sealing product, we suggest using non-through threaded mounting hole for front panel mounting.

2. All dimensions are in mm.



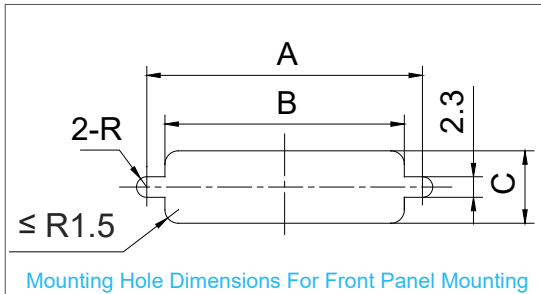
R04J Series Crimping Connectors - Mounting Hole Dimensions

■ Suitable For Product: R04J-*PI/RH-Q8



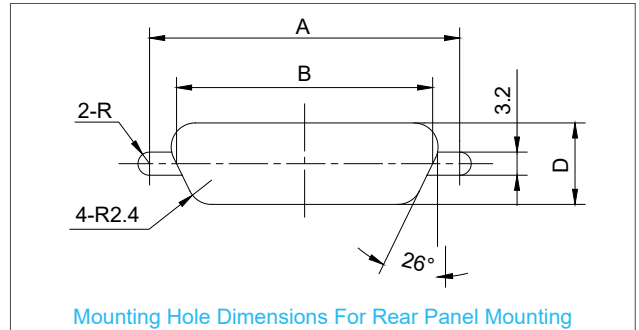
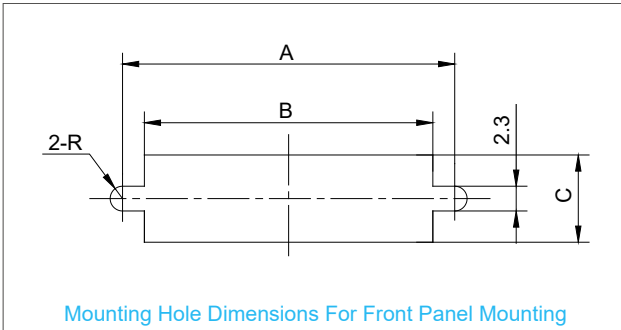
Pin Count	A	B	C	D	Pin Count	A	B	C	D
9	16.1	12	7	6.3	31	30.1	26.1	7	6.3
15	20	15.9	7	6.3	37	34	29.9	7	6.3
21	23.8	19.7	7	6.3	51	32.6	28.7	8.1	7.4
25	26.3	22.3	7	6.3					

■ Suitable For Product: R04JA-*RH



Pin Count	A	B	C	Pin Count	A	B	C
9	18.6	10.2	7	37	36.6	28.1	7
15	22.6	14.1	7	51	35.3	26.9	8.1
21	26.3	17.9	7	74	37.8	29.4	9.3
25	28.9	20.5	7	100	45.3	37	9.3
31	32.7	24.3	7				

■ Suitable For Product: R04J-*PI/RH-C



Pin Count	A	B	C	D	Pin Count	A	B	C	D
9	14.3	10.2	8.2	6.3	37	32.2	28.1	8.2	6.3
15	18.2	14.1	8.2	6.3	51	30.86	26.9	9.3	7.4
21	22	17.9	8.2	6.3	66	37.3	33.4	9.3	7.4
25	24.5	20.5	8.2	6.3	74	33.5	29.4	10.3	8.6
31	28.3	24.3	8.2	6.3	100	45.7	37	10.3	8.6

Remark: All dimensions are in mm.