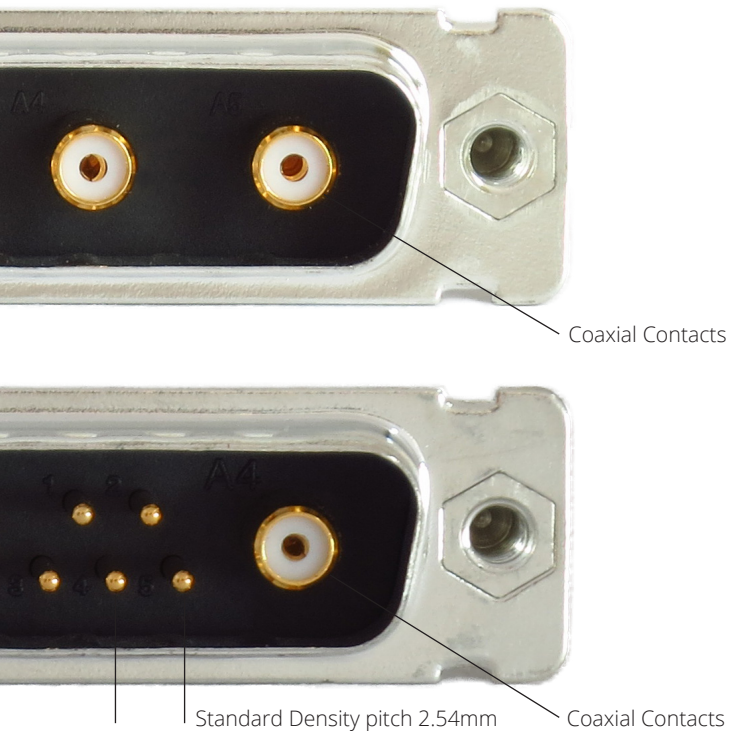


# Coaxial D-Sub



## Coaxial D-Sub Full Layout

The Coaxial D-Sub have like the Power D-Subr replaced the two rows in a Standard Density connector with a coaxial contact that take up about the same size as the two rows of signal contacts. The Coaxial D-Sub is exactly the same size as the Standard Density connector but instead of example 9 positions of signal pins it has 2 power contacts , or instead of 37 positions of signals it has 8 coaxial contacts.

KC

## Coaxial D-Sub Mixed Layout

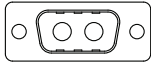
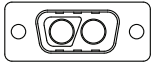
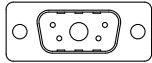
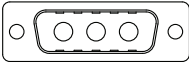
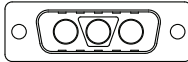
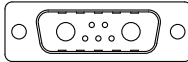
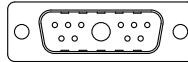
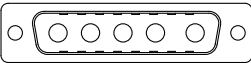
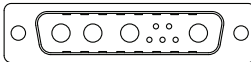
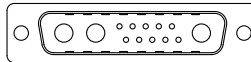
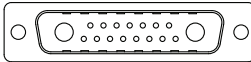
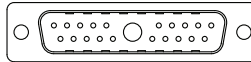
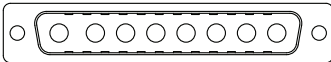
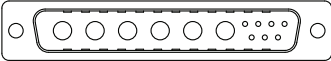
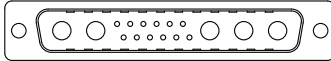
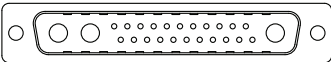
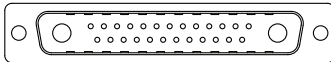
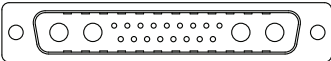
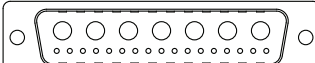
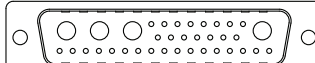
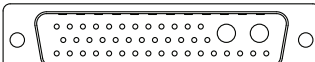
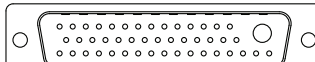
The Coaxial D-Sub with Mixed Layout mixes both coaxial contacts and signal contacts in the same connector. For example the same size as a 15 position Standard Density D-Sub you can have what we call a 7W2, which means there is 7 contacts where 2 of them are coaxial contacts, which means there are 5 signal contacts, so 5 signals and 2 coaxial. See the Layout in the Tech Specs on the bottom, there are a lot of combinations of the Mixed Layout alternative.

## Tech Spec

	Full Layout	Mixed Layout
<b>Material Data</b>		
Insulator	Polyester GF UL94V-0	
Insulator color	●	●
Contacts	Precision machined copper alloy	
Contact plating	Hard Gold plated over Nickel	
Shell	Steel, dimples on Male shell	
Shell plating	Tin plated over Nickel or Nickel plating	
<b>Electrical Data</b>		
Working Voltage	125 V	
Dielectric strenght / Test Voltage	Contact - contact 1000 V r.m.s.	
Coaxial contact impedance	50Ω and 75Ω	
Coaxial contact resistance	< 1mΩ	
Signal contact current rating	-	5.0 A
Signal contact resistance	-	< 10mΩ
Insulation resistance	>5GΩ	
<b>Mechanical Data</b>		
Creepage distance	-	1.0mm
Operating Temperature	Temp -55°C to +125°C	
Quality Class	Quality Class 1 = 500 Mating Cycles, 30μ" (0.8μm) Gold over Nickel) Quality Class 3 = 50 Mating Cycles 8μ" (0.2μm) Gold over Nickel For other plating alternatives contact factory	

# Coaxial D-Sub

## Layout

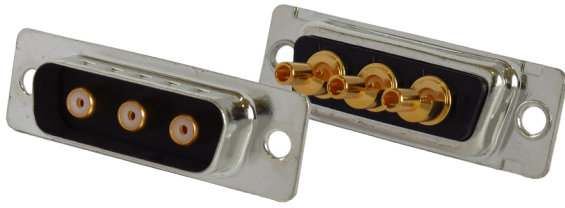
	Full Layout		Mixed Layout	
Size 1(E)	 2W2	 2WK2	 5W1	
Size 2(A)	 3W3	 3WK3	 7W2	 11W1
Size 3(B)	 5W5		 9W4	 13W3
			 17W2	 21W1
Size 4(C)	 8W8		 13W6	 17W5
			 25W3	 27W2
			 21W4	
Size 5(D)			 24W7	 36W4
			 43W2	 47W1

KC

# Coaxial D-Sub Full Layout KC Series

## Solder cup

Male



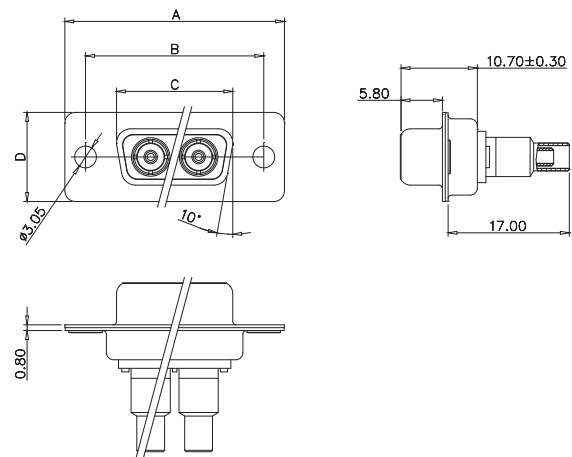
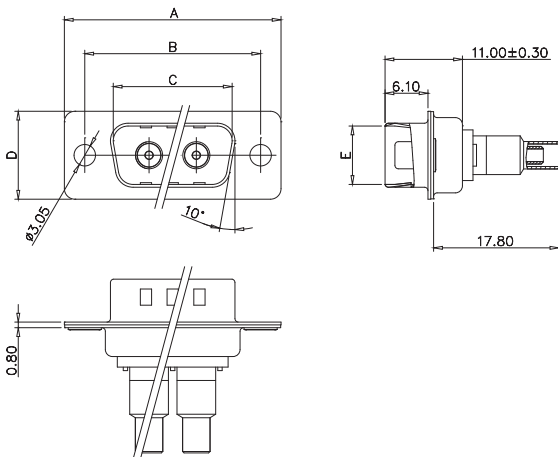
Female



KC

Note: Solder cup coaxial contacts not inserted when shipped

## Drawing



Size	A	B	C	D	E
1(E)	30.80	25.00	16.90	12.50	8.30
2(A)	39.20	33.30	25.25	12.50	8.30
3(B)	53.05	47.05	38.95	12.50	8.30
4(C)	69.40	63.50	55.40	12.50	8.30

Size	A	B	C	D	E
1(E)	30.80	25.00	16.30	12.50	7.90
2(A)	39.20	33.30	24.60	12.50	7.90
3(B)	53.05	47.05	38.40	12.50	7.90
4(C)	69.40	63.50	54.80	12.50	7.90

## Part Number Code

**Series:** KC S 5 4 -3W3 M T B  
 KC = Coaxial D-Sub

**Terminal type:**  
 S = Solder cup

**Impedance:**  
 5 = 50Ω 7 = 75Ω

**Contact plating\*:**  
 4 = Quality Class 3 (standard)  
 3 = Quality Class 1

**Layout:**  
 2W2 2WK2 3W3 3WK3 5W5 8W8

**A1 Mounting\*:**  
 A1 = Mounting hole  
 B1 = B1 with 4-40 UNC  
 B6 = B6 with M3  
 See mounting drawings below for more details

**Insulator color:**  
 B = Black

**Shell plating\*:**  
 T = Tin (standard) N = Nickel

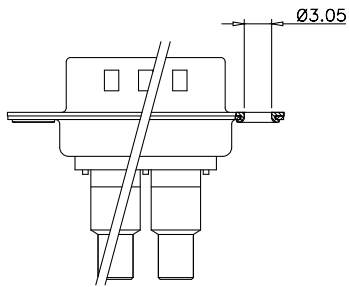
**Gender:**  
 M = Male F = Female

\*Contact sales for more details, Konmek have a wide range of alternatives available.

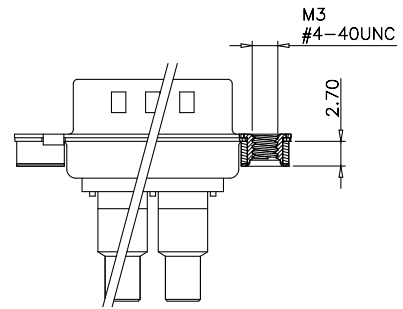
# Coaxial D-Sub Full Layout KC Series

Solder cup  
Mounting

A1



B1/B6

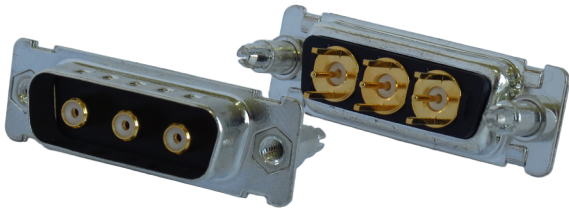


KC

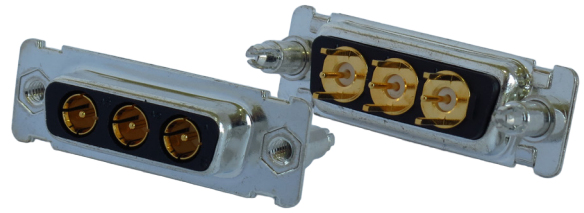
# Coaxial D-Sub Full Layout KC Series

## Straight PCB solder

Male

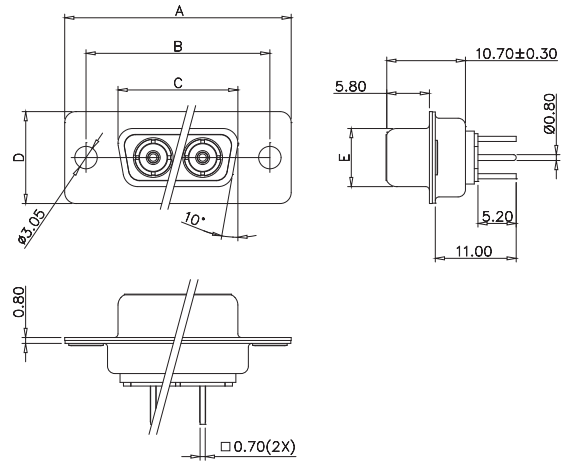
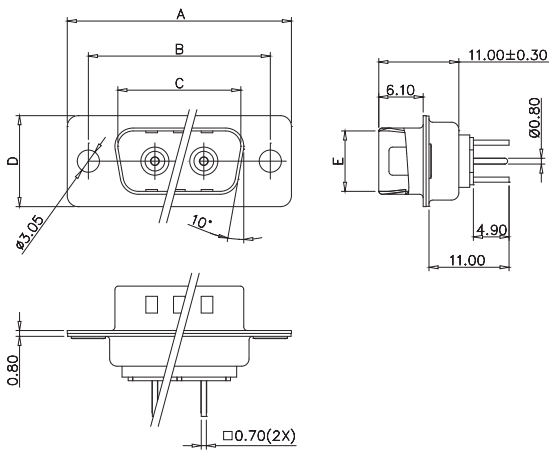


Female



KC

## Drawing



Size	A	B	C	D	E
1(E)	30.80	25.00	16.90	12.50	8.30
2(A)	39.20	33.30	25.25	12.50	8.30
3(B)	53.05	47.05	38.95	12.50	8.30
4(C)	69.40	63.50	55.40	12.50	8.30

Size	A	B	C	D	E
1(E)	30.80	25.00	16.30	12.50	7.90
2(A)	39.20	33.30	24.60	12.50	7.90
3(B)	53.05	47.05	38.40	12.50	7.90
4(C)	69.40	63.50	54.80	12.50	7.90

## Part Number Code

**Series:** KC = Coaxial D-Sub      **KC T 5 4 -3W3 M T B**

**Terminal type:** T = Straight PCB solder

**Impedance:** 5 = 50Ω    7 = 75Ω

**Contact plating\*:** 4 = Quality Class 3 (standard)    3 = Quality Class 1

**Layout:** 2W2 2WK2 3W3 3WK3 5W5 8W8

**C1 Mounting\*:**

A1 = A1 No threads	B8 = B8 with M3
B1 = B1 with 4-40 UNC	C1 = C1 with 4-40 UNC
B2 = B2 with 4-40 UNC	C2 = C2 with 4-40 UNC
B3 = B3 with 4-40 UNC	C6 = C6 with M3
B6 = B6 with M3	C7 = C7 with M3
B7 = B7 with M3	

See mounting drawings below for more details

**Insulator color:** B = Black

**Shell plating\*:** T = Tin (standard)    N = Nickel

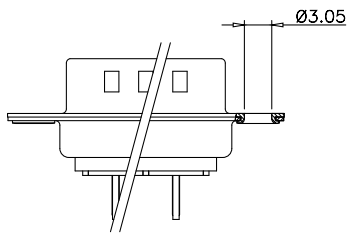
**Gender:** M = Male    F = Female

\*Contact sales for more details, Konmek have a wide range of alternatives available.

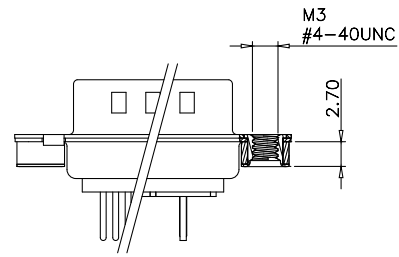
# Coaxial D-Sub Full Layout KC Series

Straight PCB solder  
Mounting

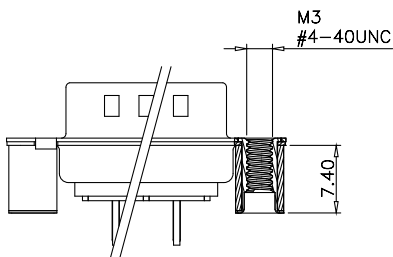
A1



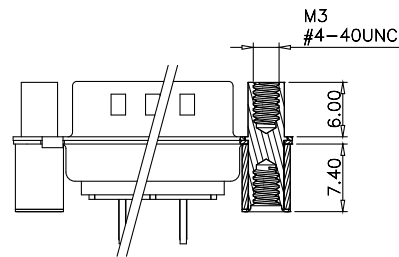
B1/B6



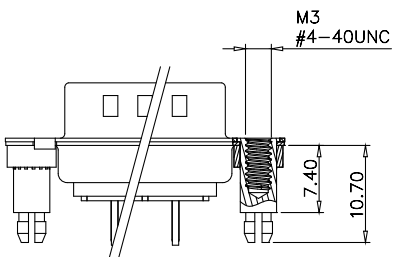
B2/B7



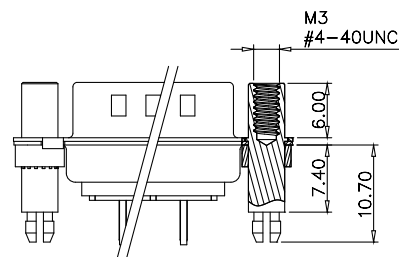
B3/B8



C1/C6



C2/C7



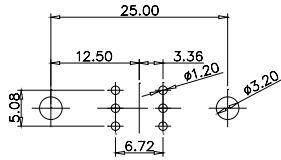
KC

# Coaxial D-Sub Full Layout KC Series

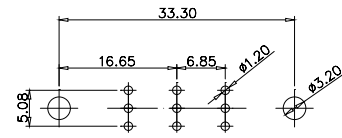
Straight PCB solder

PCB Layout for Male and Female connector

2W2 / 2WK2

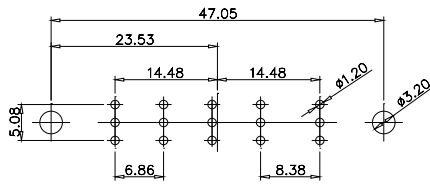


3W3 / 3WK3

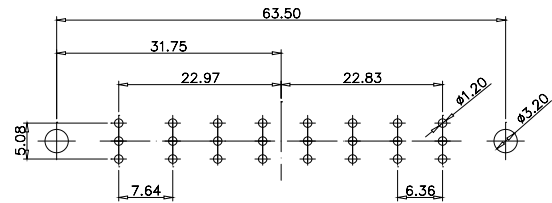


KC

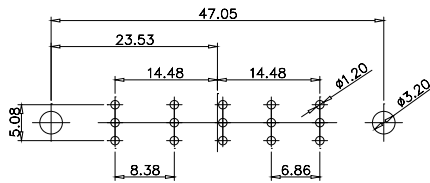
5W5 Male



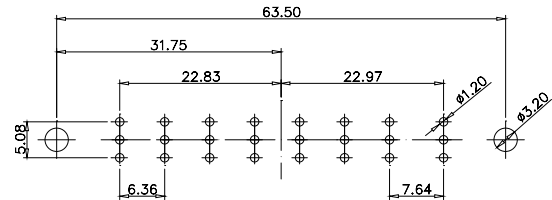
8W8 Male



5W5 Female



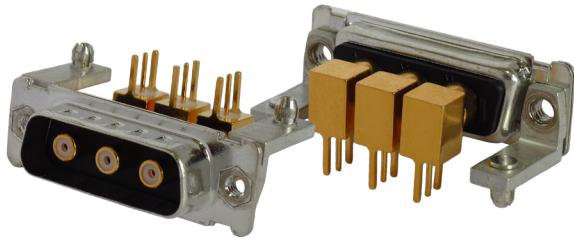
8W8 Female



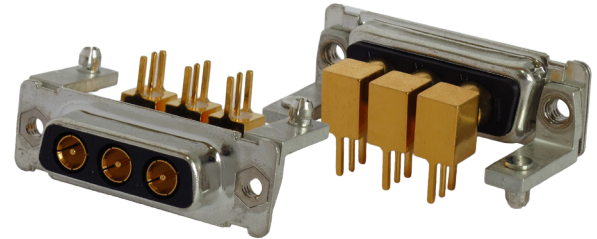
# Coaxial D-Sub Full Layout KC Series

R/A PCB solder

Male

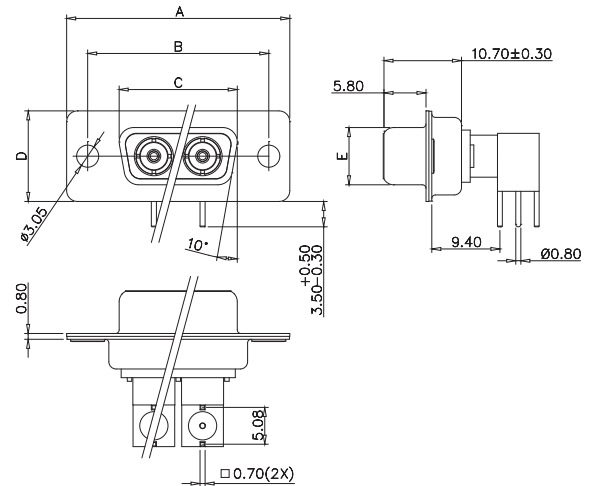
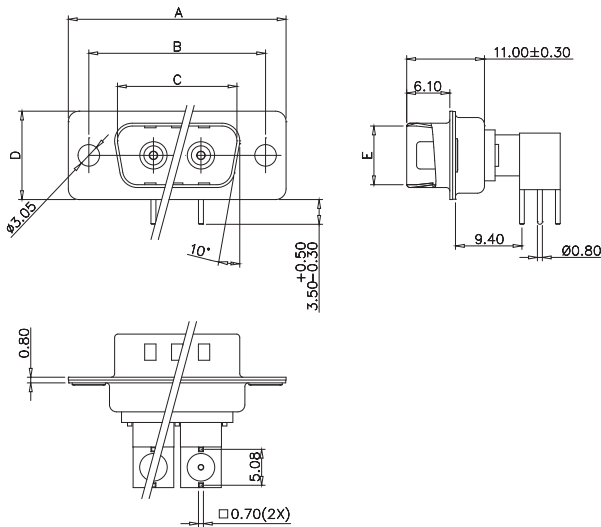


Female



KC

Drawing



Size	A	B	C	D	E
1(E)	30.80	25.00	16.90	12.50	8.30
2(A)	39.20	33.30	25.25	12.50	8.30
3(B)	53.05	47.05	38.95	12.50	8.30
4(C)	69.40	63.50	55.40	12.50	8.30

Size	A	B	C	D	E
1(E)	30.80	25.00	16.30	12.50	7.90
2(A)	39.20	33.30	24.60	12.50	7.90
3(B)	53.05	47.05	38.40	12.50	7.90
4(C)	69.40	63.50	54.80	12.50	7.90

Part Number Code

**Series:** KC R 5 4 -3W3 M T B

KC = Coaxial D-Sub

**Terminal type:** R = R/A PCB solder

**Impedance:** 5 = 50Ω 7 = 75Ω

**Contact plating\*:** 4 = Quality Class 3 (standard) 3 = Quality Class 1

**Layout:** 2W2 2WK2 3W3 3WK3 5W5 8W8

**D1 Mounting\*:**

A1 = A1 No threads      D4 = D4 with 4-40 UNC  
 B1 = B1 with 4-40 UNC      D6 = D6 with M3  
 B6 = B6 with M3      D7 = D7 with M3  
 D1 = D1 with 4-40 UNC      D8 = D8 with M3  
 D2 = D2 with 4-40 UNC      D9 = D9 with M3  
 D3 = D3 with 4-40 UNC

See mounting drawings below for more details

**Insulator color:** B = Black

**Shell plating\*:** T = Tin (standard) N = Nickel

**Gender:** M = Male F = Female

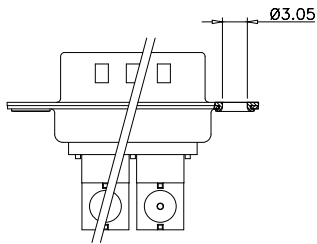
\*Contact sales for more details, Konmek have a wide range of alternatives available.



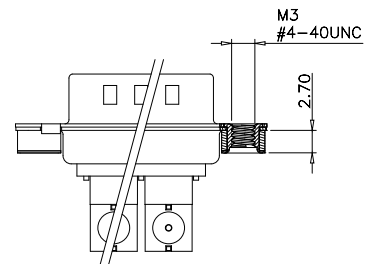
# Coaxial D-Sub Full Layout KC Series

R/A PCB solder  
Mounting

A1

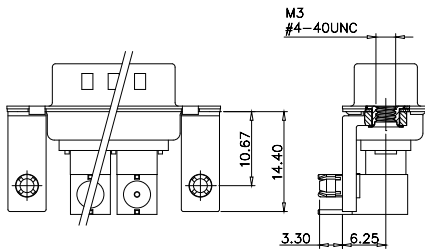


B1/B6

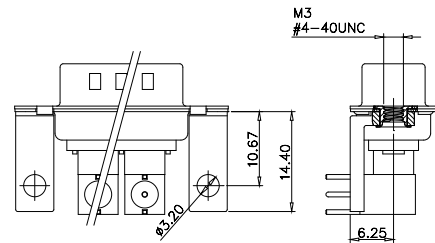


KC

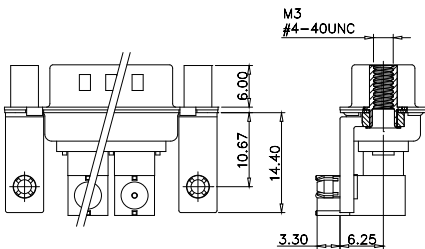
D1/D6



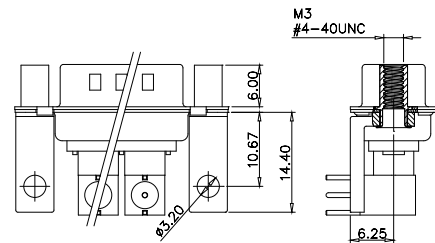
D2/D7



D3/D8



D4/D9

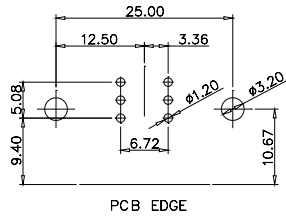


# Coaxial D-Sub Full Layout KC Series

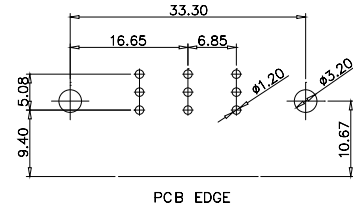
R/A PCB solder

PCB Layout for Male and Female connector

2W2 / 2WK2 Male/Female

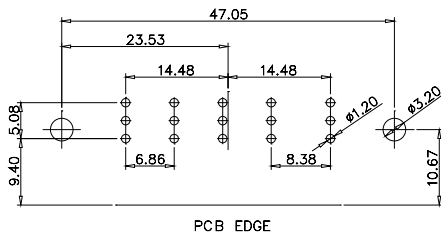


3W3 / 3WK3 Male/Female

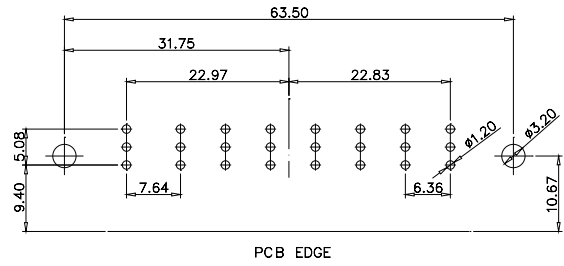


KC

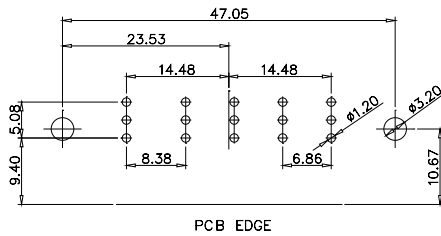
5W5 Male



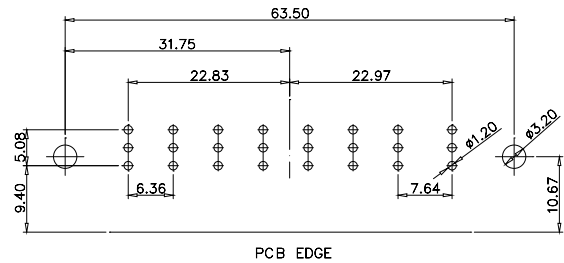
8W8 Male



5W5 Female



8W8 Female



# Coaxial D-Sub Mixed Layout KC Series

## Solder cup

Male

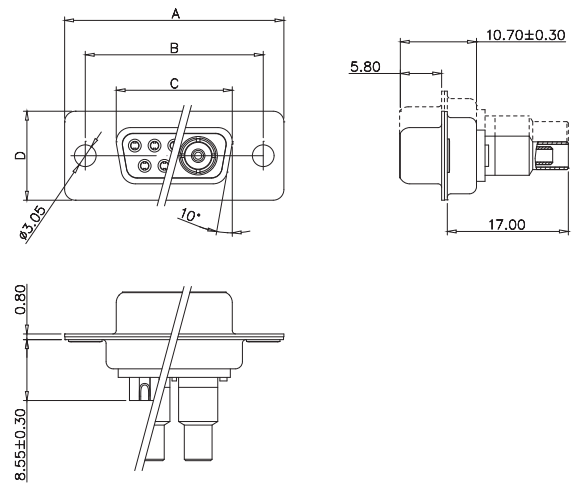
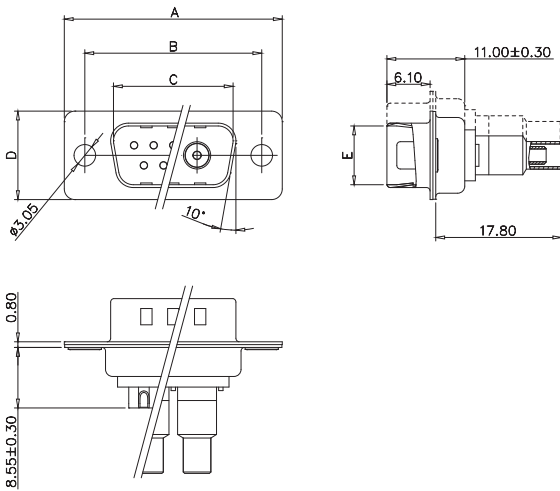
Female



KC

Note: Solder cup coaxial contacts not inserted when shipped

## Drawing



Size	A	B	C	D	E
1(E)	30.80	25.00	16.90	12.50	8.30
2(A)	39.20	33.30	25.25	12.50	8.30
3(B)	53.05	47.05	38.95	12.50	8.30
4(C)	69.40	63.50	55.40	12.50	8.30
5(D)	67.00	61.00	52.80	15.30	11.15

Size	A	B	C	D	E
1(E)	30.80	25.00	16.30	12.50	7.90
2(A)	39.20	33.30	24.60	12.50	7.90
3(B)	53.05	47.05	38.40	12.50	7.90
4(C)	69.40	63.50	54.80	12.50	7.90
5(D)	67.00	61.00	52.20	15.30	10.90

## Part Number Code

**Series:** KC S 5 4 -7W2 M T B  
 KC = Coaxial D-Sub

**Terminal type:**  
 S = Solder cup

**Impedance:**  
 5 = 50Ω 7 = 75Ω

**Contact plating\*:**  
 4 = Quality Class 3 (standard)  
 3 = Quality Class 1

**Layout:**  
 5W1 7W2 11W1 9W4 13W3 17W2 21W1  
 13W6 17W5 25W3 27W2 21W4 25W3 27W2  
 21W4 24W7 36W4 43W2 47W1

**A1 Mounting\*:**  
 A1 = Mounting hole  
 B1 = B1 with 4-40 UNC  
 B6 = B6 with M3  
 See mounting drawings below for more details

**Insulator color:**  
 B = Black

**Shell plating\*:**  
 T = Tin (standard) N = Nickel

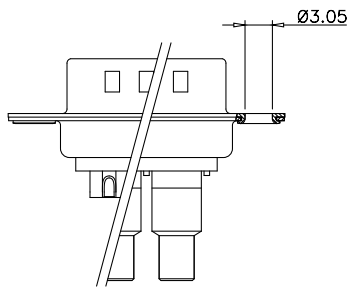
**Gender:**  
 M = Male F = Female

\*Contact sales for more details, Konmek have a wide range of alternatives available.

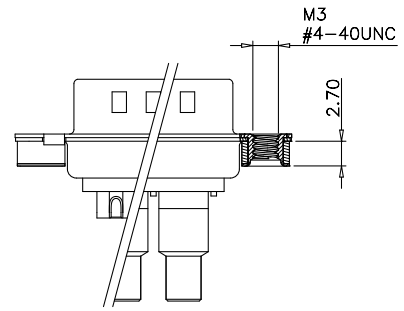
# Coaxial D-Sub Mixed Layout KC Series

Solder cup  
Mounting

A1



B1/B6

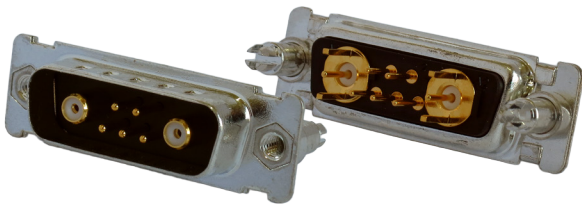


KC

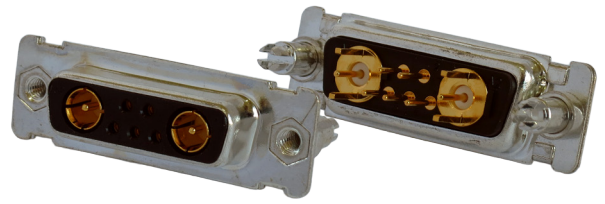
# Coaxial D-Sub Mixed Layout KC Series

## Straight PCB solder

Male

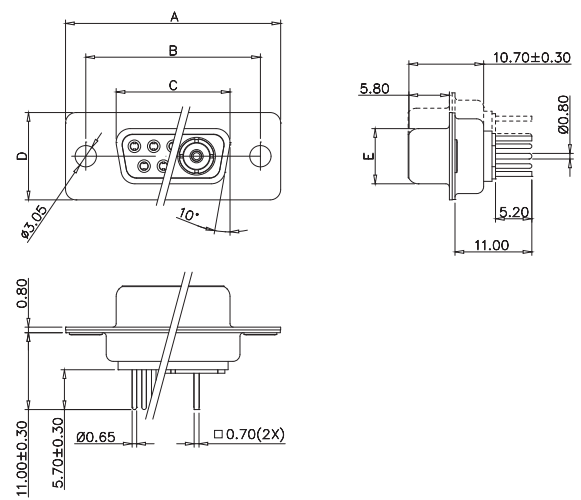
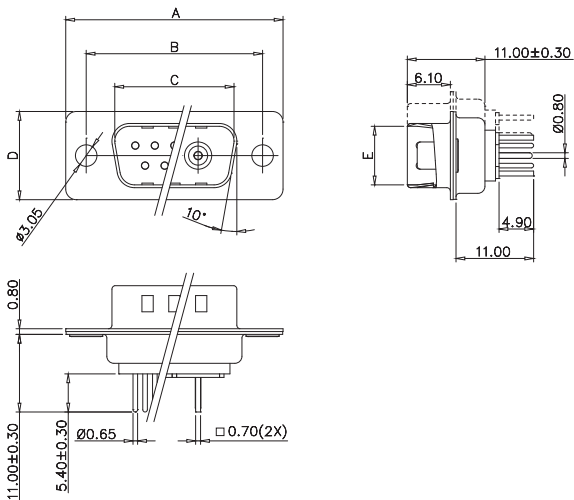


Female



KC

## Drawing



Size	A	B	C	D	E
1(E)	30.80	25.00	16.90	12.50	8.30
2(A)	39.20	33.30	25.25	12.50	8.30
3(B)	53.05	47.05	38.95	12.50	8.30
4(C)	69.40	63.50	55.40	12.50	8.30
5(D)	67.00	61.00	52.80	15.30	11.15

Size	A	B	C	D	E
1(E)	30.80	25.00	16.30	12.50	7.90
2(A)	39.20	33.30	24.60	12.50	7.90
3(B)	53.05	47.05	38.40	12.50	7.90
4(C)	69.40	63.50	54.80	12.50	7.90
5(D)	67.00	61.00	52.20	15.30	10.90

## Part Number Code

**Series:** KC T 5 4 -7W2 M T B

KC = Coaxial D-Sub

**Terminal type:**

T = Straight PCB solder

**Impedance:**

5 = 50Ω 7 = 75Ω

**Contact plating\*:**

4 = Quality Class 3 (standard)

3 = Quality Class 1

**Layout:**

5W1 7W2 11W1 9W4 13W3 17W2 21W1  
13W6 17W5 25W3 27W2 21W4 25W3 27W2  
21W4 24W7 36W4 43W2 47W1

**C1 Mounting\*:**

A1 = A1 No threads

B8 = B8 with M3

B1 = B1 with 4-40 UNC

C1 = C1 with 4-40 UNC

B2 = B2 with 4-40 UNC

C2 = C2 with 4-40 UNC

B3 = B3 with 4-40 UNC

C6 = C6 with M3

B6 = B6 with M3

C7 = C7 with M3

B7 = B7 with M3

See mounting drawings below for more details

**Insulator color:**

B = Black

**Shell plating\*:**

T = Tin (standard)

N = Nickel

**Gender:**

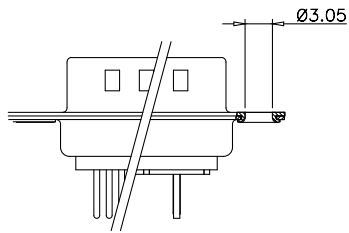
M = Male F = Female

\*Contact sales for more details, Konmek have a wide range of alternatives available.

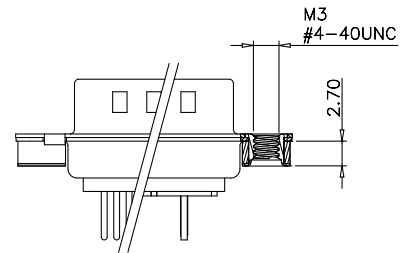
# Coaxial D-Sub Mixed Layout KC Series

Straight PCB solder  
Mounting

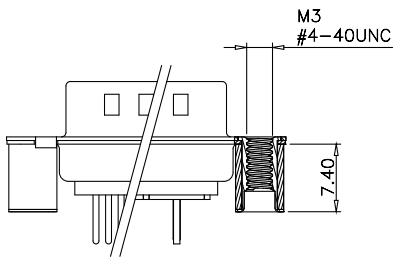
A1



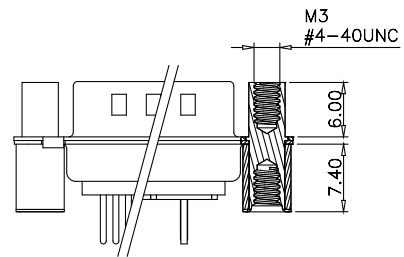
B1/B6



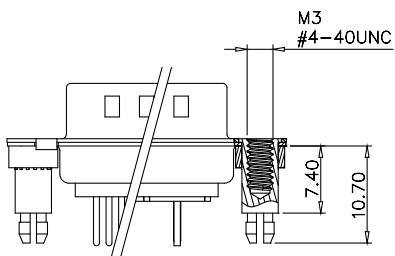
B2/B7



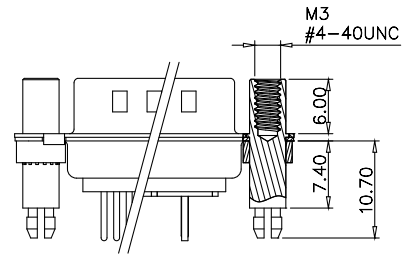
B3/B8



C1/C6



C2/C7



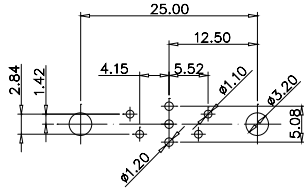
KC

# Coaxial D-Sub Mixed Layout KC Series

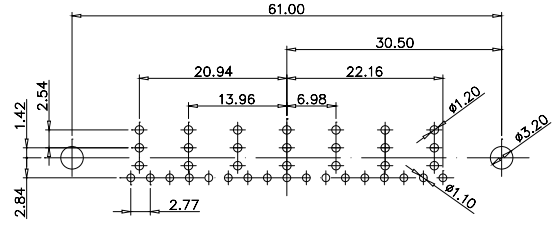
Straight PCB solder

PCB Layout for Male and Female connector

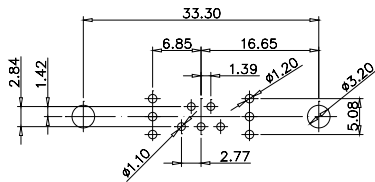
5W1 Male/Female



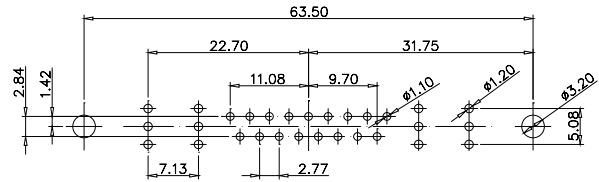
24W7 Male/Female



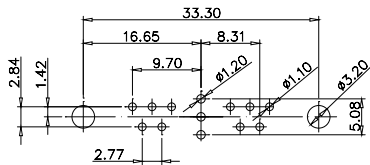
7W2 Male/Female



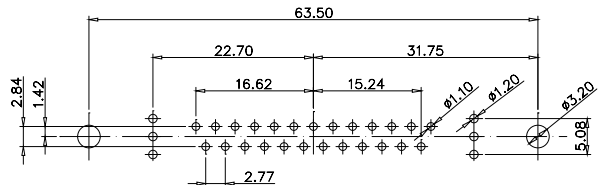
21W4 Male/Female



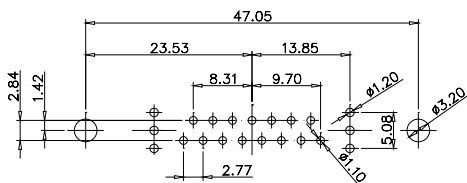
11W1 Male/Female



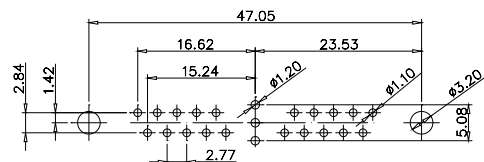
27W2 Male/Female



17W2 Male/Female



21W1 Male/Female



KC

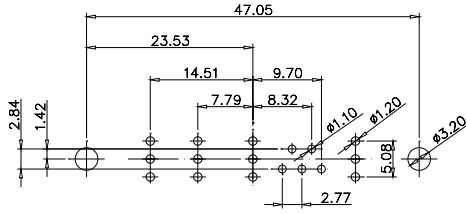
# Coaxial D-Sub Mixed Layout KC Series

Straight PCB solder

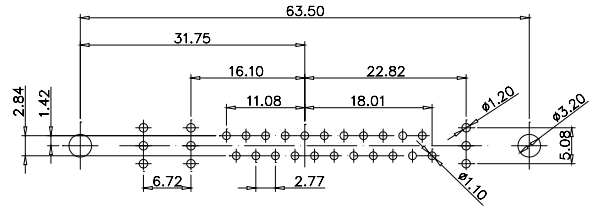
PCB Layout for Male connector

KC

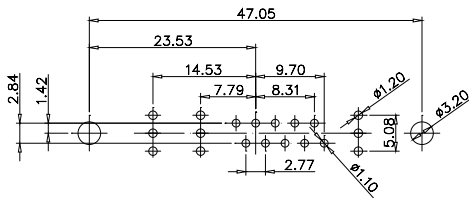
9W4 Male



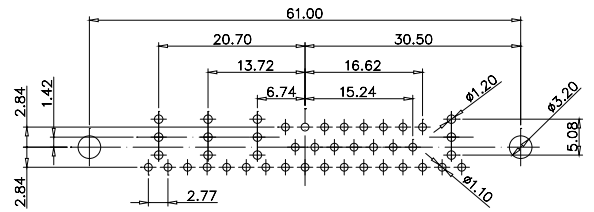
25W3 Male



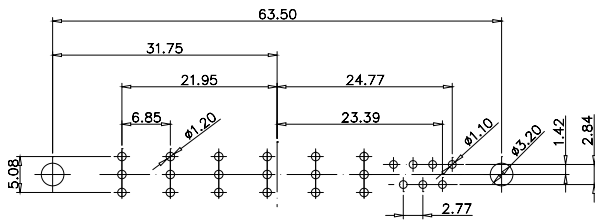
13W3 Male



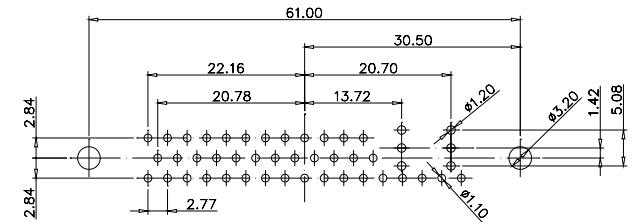
36W4 Male



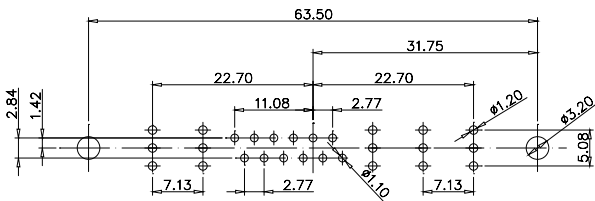
13W6 Male



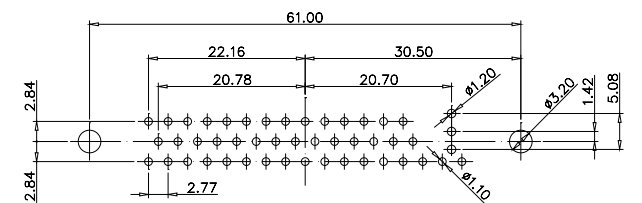
43W2 Male



17W5 Male



47W1 Male



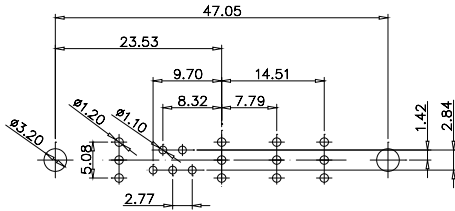


# Coaxial D-Sub Mixed Layout KC Series

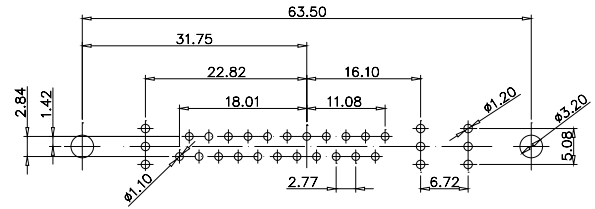
Straight PCB solder

PCB Layout for Female connector

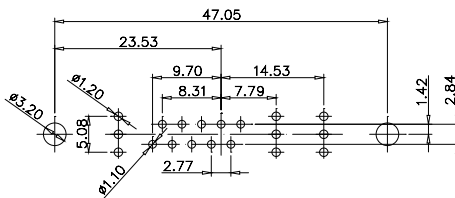
9W4 Female



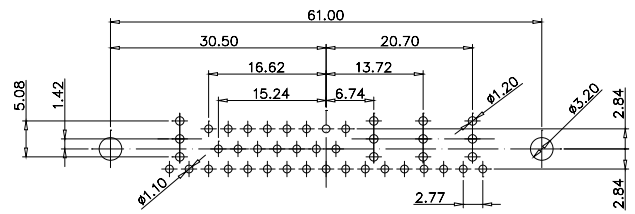
25W3 Female



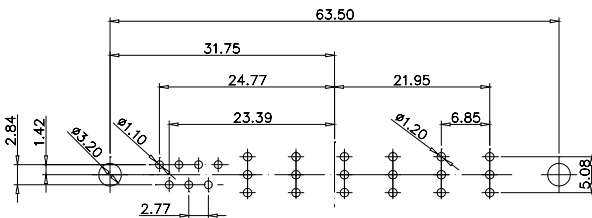
13W3 Female



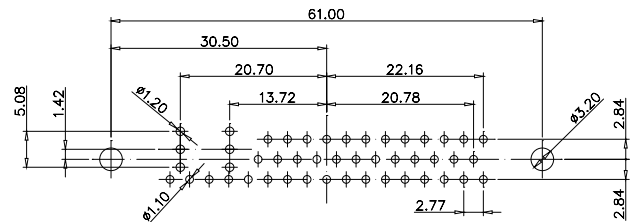
36W4 Female



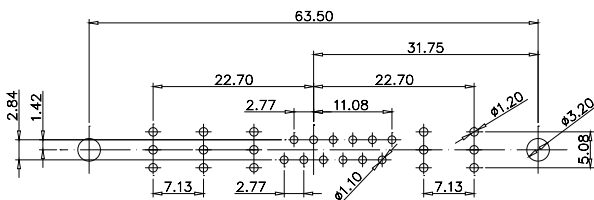
13W6 Female



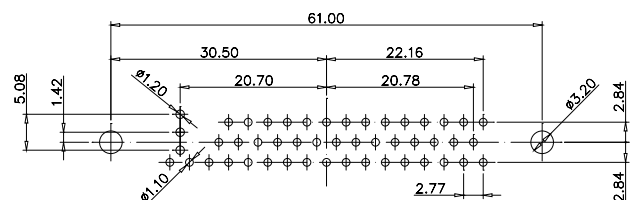
43W2 Female



17W5 Female



47W1 Female

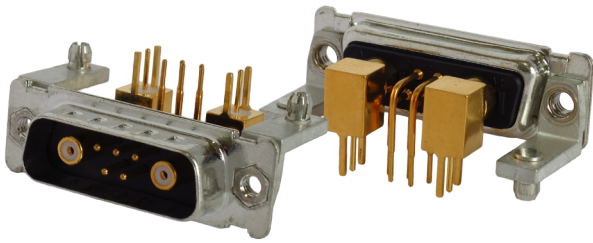


KC

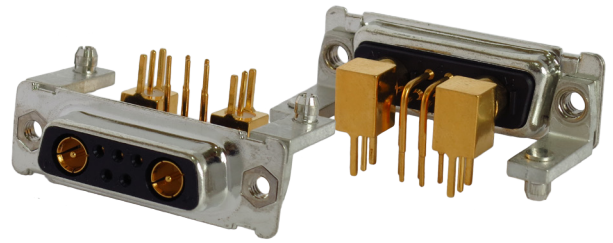
# Coaxial D-Sub Mixed Layout KC Series

R/A PCB solder

Male

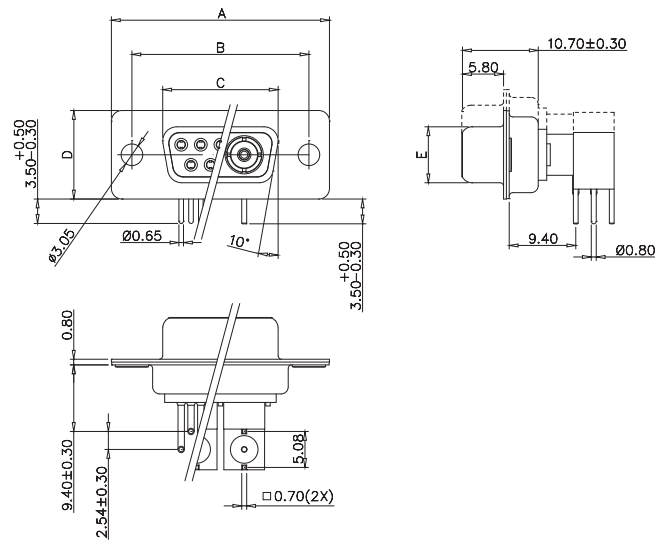
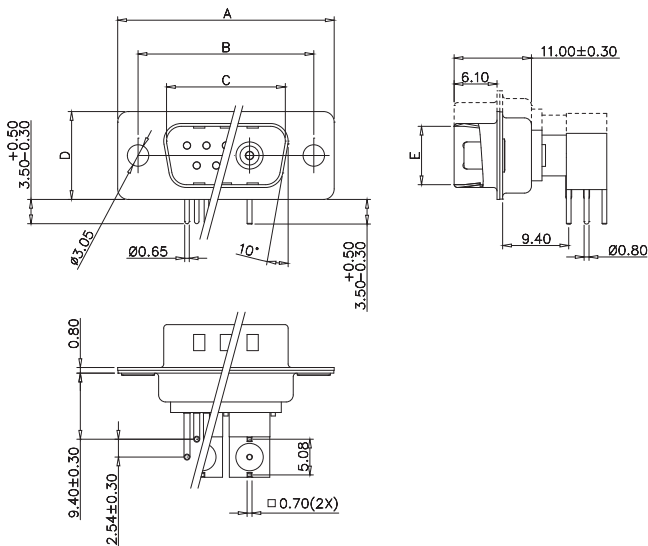


Female



KC

Drawing



Size	A	B	C	D	E
1(E)	30.80	25.00	16.90	12.50	8.30
2(A)	39.20	33.30	25.25	12.50	8.30
3(B)	53.05	47.05	38.95	12.50	8.30
4(C)	69.40	63.50	55.40	12.50	8.30
5(D)	67.00	61.00	52.80	15.30	11.15

Size	A	B	C	D	E
1(E)	30.80	25.00	16.30	12.50	7.90
2(A)	39.20	33.30	24.60	12.50	7.90
3(B)	53.05	47.05	38.40	12.50	7.90
4(C)	69.40	63.50	54.80	12.50	7.90
5(D)	67.00	61.00	52.20	15.30	10.90

Part Number Code

**Series:** KC R 5 4 -7W2 M T B

KC = Coaxial D-Sub

**Terminal type:**  
R = R/A PCB solder

**Impedance:**  
5 = 50Ω 7 = 75Ω

**Contact plating\*:**  
4 = Quality Class 3 (standard)  
3 = Quality Class 1

**Layout:**  
5W1 7W2 11W1 9W4 13W3 17W2 21W1  
13W6 17W5 25W3 27W2 21W4 25W3 27W2  
21W4 24W7 36W4 43W2 47W1

**D1 Mounting\*:**

- A1 = A1 No threads
- B1 = B1 with 4-40 UNC
- B6 = B6 with M3
- D1 = D1 with 4-40 UNC
- D2 = D2 with 4-40 UNC
- D3 = D3 with 4-40 UNC
- D4 = D4 with 4-40 UNC
- D6 = D6 with M3
- D7 = D7 with M3
- D8 = D8 with M3
- D9 = D9 with M3

See mounting drawings below for more details

**Insulator color:**

B = Black

**Shell plating\*:**

T = Tin (standard) N = Nickel

**Gender:**

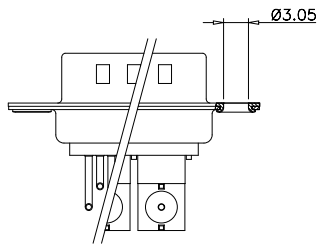
M = Male F = Female

\*Contact sales for more details, Konmek have a wide range of alternatives available.

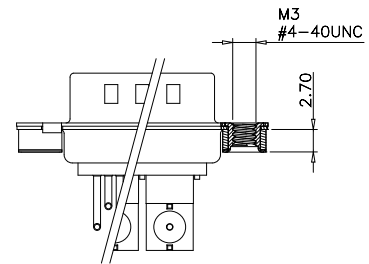
# Coaxial D-Sub Mixed Layout KC Series

R/A PCB solder  
Mounting

A1

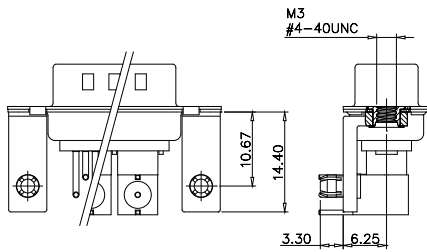


B1/B6

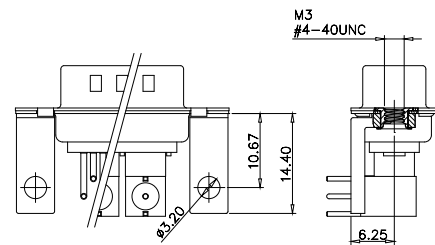


KC

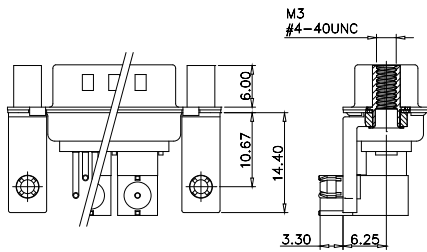
D1/D6



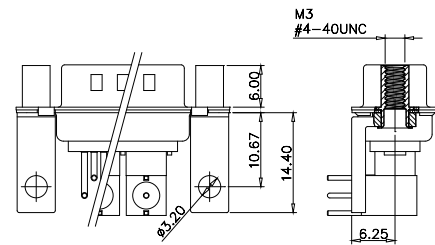
D2/D7



D3/D8



D4/D9

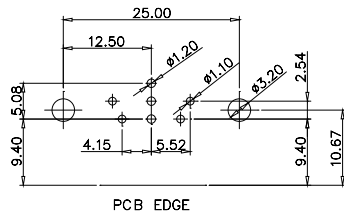


# Coaxial D-Sub Mixed Layout KC Series

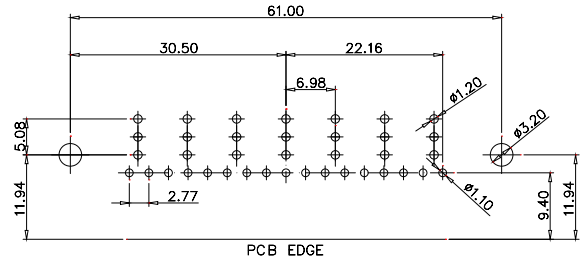
R/A PCB solder

PCB Layout for Male and Female connector

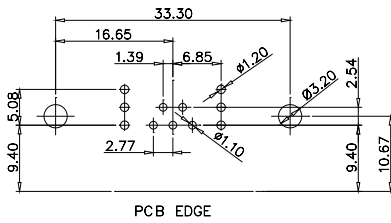
5W1 Male/Female



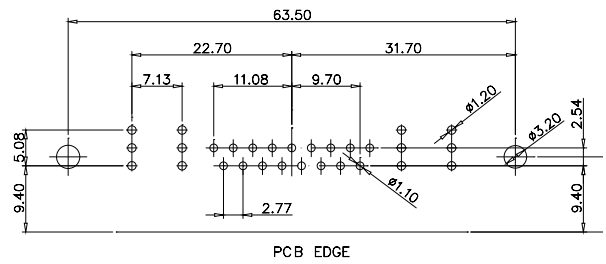
24W7 Male/Female



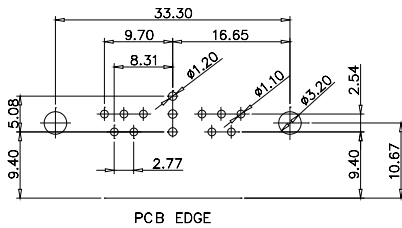
7W2 Male/Female



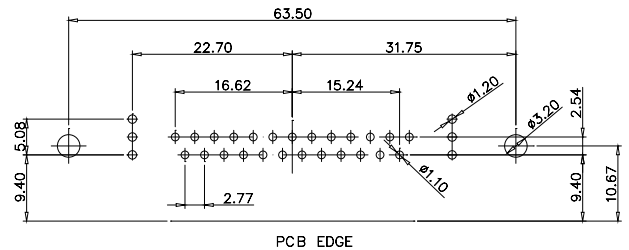
21W4 Male/Female



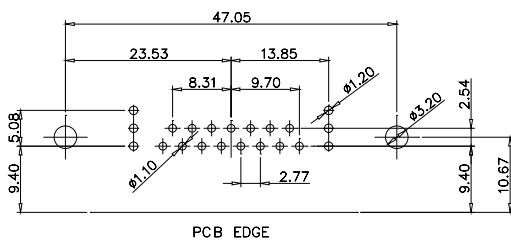
11W1 Male/Female



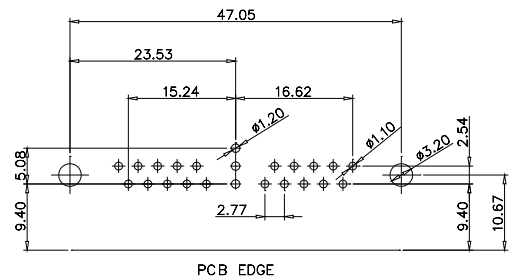
27W2 Male/Female



17W2 Male/Female



21W1 Male/Female



KC

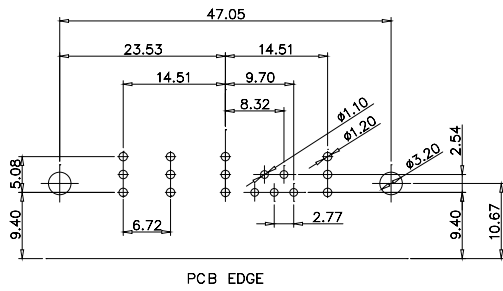
# Coaxial D-Sub Mixed Layout KC Series

R/A PCB solder

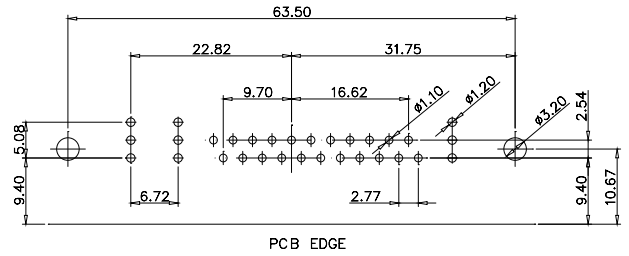
PCB Layout for Male connector

KC

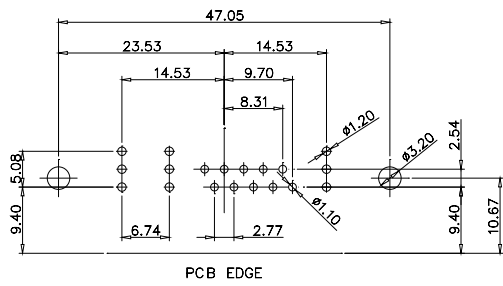
9W4 Male



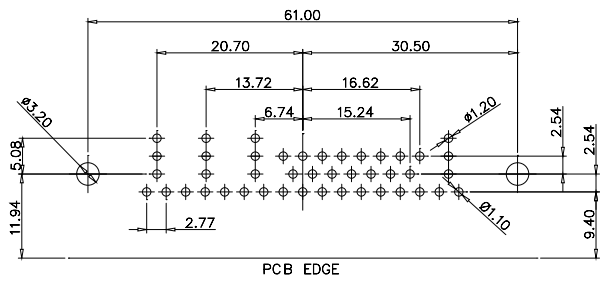
25W3 Male



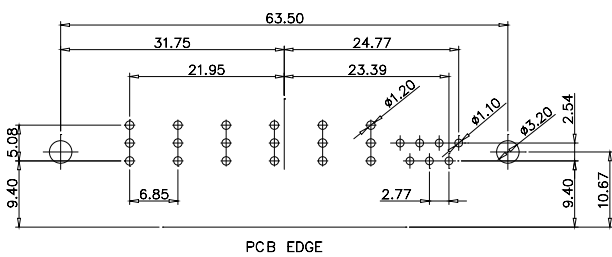
13W3 Male



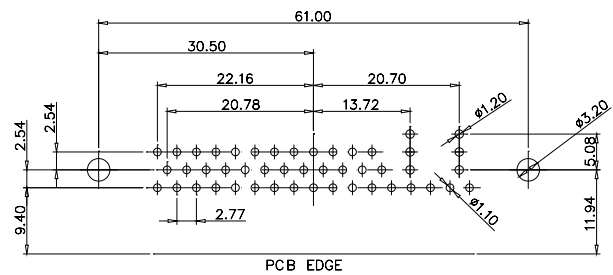
36W4 Male



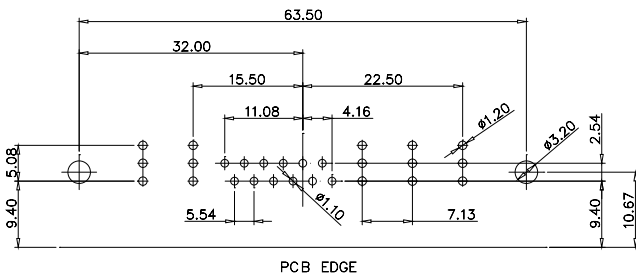
13W6 Male



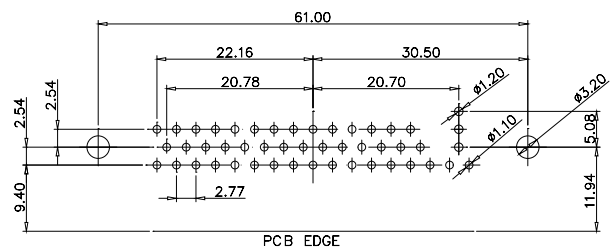
43W2 Male



17W5 Male



47W1 Male



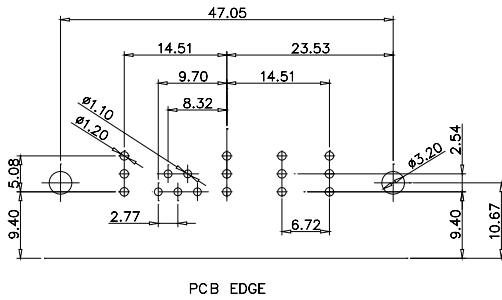
# Coaxial D-Sub Mixed Layout KC Series

R/A PCB solder

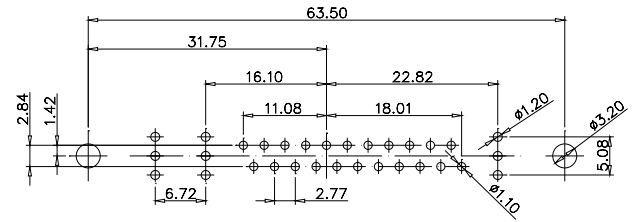
PCB Layout for Female connector

KC

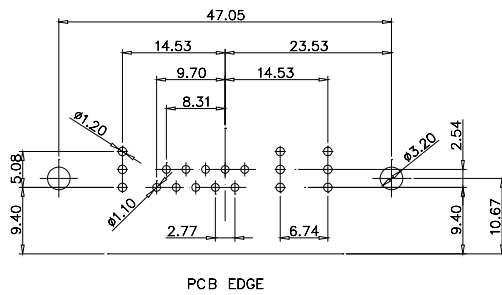
9W4 Female



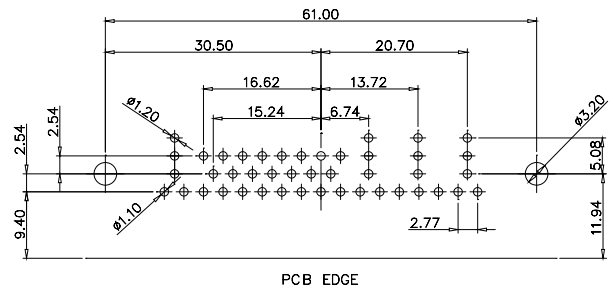
25W3 Female



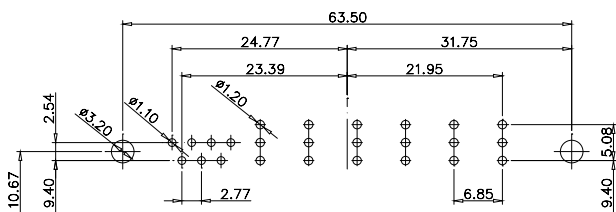
13W3 Female



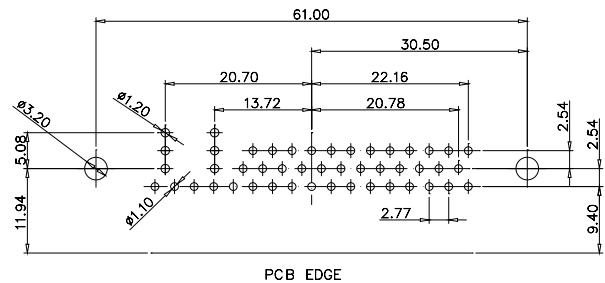
36W4 Female



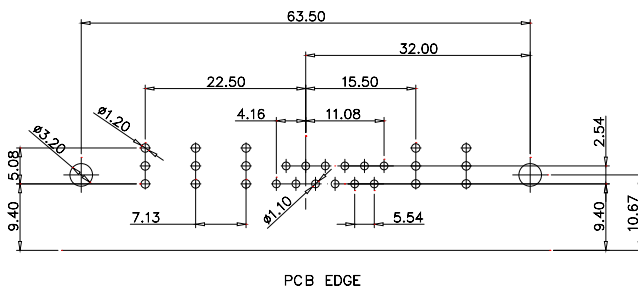
13W6 Female



43W2 Female



17W5 Female



47W1 Female

