

# SCK Series – Part Numbering



## Features

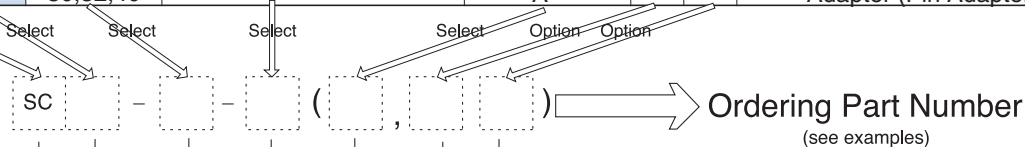
- Rugged
- Simple construction
- Stable mechanical / Electrical performances

## Applications

- Electric / Electronic
- Communication

## Part Numbering

Part Number		Size	Number of Contacts	Suffix (Body Type)	Option		Notes	Page	
Series	Prefix				L/T	W			
SC	K	12,16,20,25,30,32,40	12 size:2 or 4 16 size:2,3,4,5,6,7,8 20 size:2,3,4,5,6,8,10,20 25 size:2,3,4,5,6,8,10,12 30 size:2,3,4,6,8,10,14 32 size:2,3,4	P	●	●	SCK series plug	24	
				PL	●		SCK series Right-angle plug	24	
				R			Receptacle (Panel type)	25	
				RC			Receptacle Cover	28	
	N	12,16,20,25			R		●	Receptacle (Nut type)	25
					RPCB			Receptacle (PCB type)	25
					BRPCB			Bulkhead Receptacle	25
	KH	16,25,30		40 size:2,3,4,12	P			Plug (Reverse contact)	28
					R			Receptacle (Reverse contact)	28
	NH	16,20		Check each product for more detail	R			Receptacle (Reverse contact)	28
					P			Adapter (Socket Adapter)	27
	A	16,20,25,30,32,40			A			Adapter (Pin Adapter)	27



### Examples

- SCK - 12 - 4 ( P )  
SCK series - Size 12 - 4 contact ( Plug )
- SCN - 20 - 10 ( R )  
SCN series - Size 20 - 10 contact ( Nut Type Receptacle )
- SCA - 30 - 2 ( P )  
SCA series - Size 30 - 2 contact ( Adapter - female contact )
- SCK - 16 - 4 ( P , L/T )  
SCK series - Size 16 - 4 contact ( Plug , Lock Type )
- SCK - 16 - 8 ( PL , L/T )  
SCK series - Size 16 - 8 contact ( Right Angle Plug )
- SCN - 16 - 7 ( RPCB )  
SCN series - Size 16 - 7 contact ( PCB Receptacle )

### Connector Series (Body Type)

- SCK - Plug(Socket) / Receptacle(Pin)
- SCN - Nut type receptacle(Pin)
- SCKH - Plug(Pin) / Receptacle(Socket)
- SCNH - Receptacle(Socket)
- SCA - Adapter

### Size

12,16,20,25,30,32,40

### No. of Contacts

12 Size : 2 or 4                      30 Size : 2,3,4,6,8,10,14  
16 Size : 2,3,4,5,6,7,8              32 Size : 2,3,4  
20 Size : 2,3,4,5,6,8,10,20        40 Size : 2,3,4,12  
25 Size : 2,3,4,5,6,8,10,12

### Extended Body Type

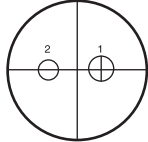
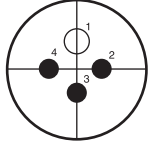
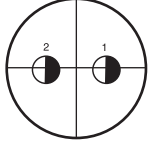
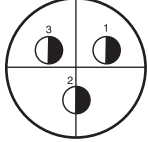
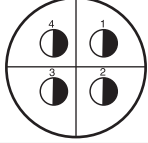
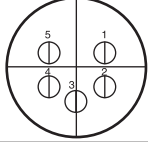
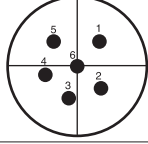
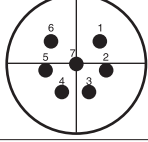
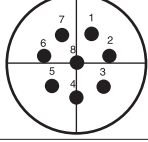
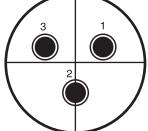
- P : Plug
- PL : Right angle Plug
- R : Receptacle
- RPCB : PCB Receptacle
- BRPCB : Bulkhead PCB Receptacle
- RC : Receptacle Cap
- A : Adapter

### Option

- L/T : Lock type (available in size 16 with 4,5,6,7,8 contacts only)
- W : Waterproof (only available in size 12 for 2,4 contacts)

Specifications subject to change without notice. Consult Sam Woo Electronics for the latest specifications.

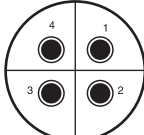
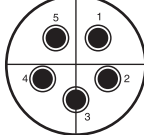
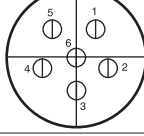
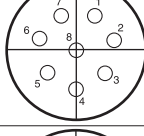
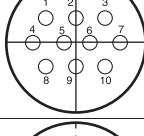
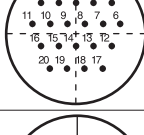
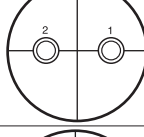
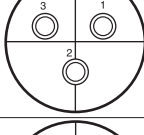
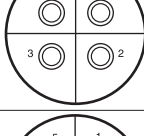
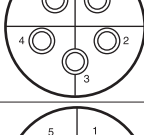
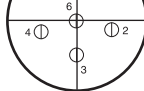
## Major Performances / Contact Arrangements

Performance Size / No. of Contacts		Withstanding Voltage/min.	Current	Insulation Resistance (Minimum)	Contact Resistance (Maximum)	Contact Ø	Solder Pot Ø	Contact Arrangement
12	2	AC 500V	4A	1,000MΩ	5mΩ	2.0	1.2	
			3A			1.5	1.2	
	4	AC 500V	4A	1,000MΩ	5mΩ	2.0	1.2	
			3A			1.0	1.0	
16	2	AC 500V	5A	1,000MΩ	5mΩ	2.5	1.5	
	3	AC 500V	5A	1,000MΩ	5mΩ	2.5	1.5	
	4	AC 500V	5A	1,000MΩ	5mΩ	2.5	1.5	
	5	AC 500V	4A	1,000MΩ	5mΩ	2.0	1.2	
	6	AC 500V	3A	1,000MΩ	5mΩ	1.2	1.0	
	7	AC 500V	3A	1,000MΩ	5mΩ	1.2	1.0	
	8	AC 500V	3A	1,000MΩ	5mΩ	1.2	1.0	
	20	2	AC 1000V	7A	1,000MΩ	5mΩ	3.0	2.2
3		AC 1000V	7A	1,000MΩ	5mΩ	3.0	2.2	

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# SCK Series – Specifications

## Major Performances / Contact Arrangements

Performance Size / No. of Contacts		Withstanding Voltage/min.	Current	Insulation Resistance (Minimum)	Contact Resistance (Maximum)	Contact Ø	Solder Pot Ø	Contact Arrangement
20	4	AC 1000V	7A	1,000MΩ	5mΩ	3.0	2.2	
	5	AC 1000V	7A	1,000MΩ	5mΩ	3.0	2.2	
	6	AC 1000V	4A	1,000MΩ	5mΩ	2.0	1.5	
	8	AC 1000V	3A	1,000MΩ	5mΩ	1.5	1.0	
	10	AC 1000V	3A	1,000MΩ	5mΩ	1.5	1.0	
	20	AC 1000V	2A	1,000MΩ	5mΩ	0.7	0.8	
25	2	AC 1000V	10A	1,000MΩ	5mΩ	3.5	2.7	
	3	AC 1000V	10A	1,000MΩ	5mΩ	3.5	2.7	
	4	AC 1000V	10A	1,000MΩ	5mΩ	3.5	2.7	
	5	AC 1000V	10A	1,000MΩ	5mΩ	3.5	2.7	
	6	AC 1000V	4A	1,000MΩ	5mΩ	2.0	1.5	

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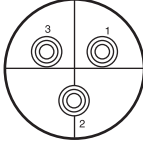
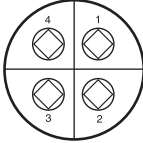
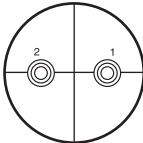
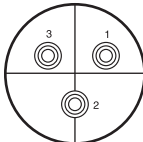
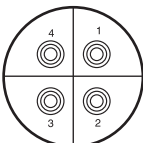
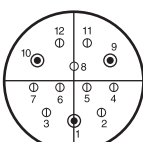
## Major Performances / Contact Arrangements

Performance Size / No. of Contacts		Withstanding Voltage/min.	Current	Insulation Resistance (Minimum)	Contact Resistance (Maximum)	Contact Ø	Solder Pot Ø	Contact Arrangement
25	8	AC 1000V	4A	1,000MΩ	5mΩ	2.0	1.5	
	10	AC 1000V	4A	1,000MΩ	5mΩ	2.0	1.5	
	12	AC 1000V	4A	1,000MΩ	5mΩ	2.0	1.5	
30	2	AC 500V	15A	1,000MΩ	5mΩ	3.5	2.7	
	3	AC 500V	15A	1,000MΩ	5mΩ	3.5	2.7	
	4	AC 500V	15A	1,000MΩ	5mΩ	3.5	2.7	
	6	AC 1000V	15A	1,000MΩ	5mΩ	3.5	2.7	
	8	AC 1000V	15A	1,000MΩ	5mΩ	3.5	2.7	
	10	AC 1000V	5A	1,000MΩ	5mΩ	2.5	2.2	
	14	AC 1000V	4A	1,000MΩ	5mΩ	1.8	1.2	
32	2	AC 1000V	40A	1,000MΩ	5mΩ	7.0	4.1	

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# SCK Series – Specifications

## Major Performances / Contact Arrangements















Performance Size / No. of Contacts		Withstanding Voltage/min.	Current	Insulation Resistance (Minimum)	Contact Resistance (Maximum)	Contact Ø	Solder Pot Ø	Contact Arrangement
32	3	AC 1000V	40A	1,000MΩ	5mΩ	7.0	4.1	
	4	AC 1000V	30A	1,000MΩ	5mΩ	6.0	4.2	
40	2	AC 1000V	40A	1,000MΩ	5mΩ	7.0	4.5	
	3	AC 1000V	40A	1,000MΩ	5mΩ	7.0	4.5	
	4	AC 1000V	40A	1,000MΩ	5mΩ	7.0	4.5	
	12	AC 1000V	10A	1,000MΩ	5mΩ	3.0	2.0	
			4A			2.0	1.5	

- ! <sup>1</sup> Withstanding voltage is the tested voltage value in this table.
- <sup>2</sup> Insulation resistance is measured at DC 100V.
- <sup>3</sup> Contact resistance is measured at DC 1A.
- Values are from tested items and may not apply to all connectors.
- <sup>4</sup> Connector contact arrangement is from mating surface.

## Material Used / Finish

		Material	Finish
Body		Zinc alloy	Nickel
Insulator	Size 12	PA & Bakelite	Green
	Size 16	Bakelite	Black
	Size 20,25,30	Bakelite	Green
	Size 32,40	Epoxy	Green
Contacts	Pin	Brass	Silver or Gold
	Socket	Brass, Phosphor Bronze	Silver or Gold

## Symbol for Contact Diameter

Mark								
Diameter	0.7	1.0	1.2	1.5	1.8	2.0	2.5	3.0
Mark								
Diameter	3.5	4.0	4.5	6.0	7.0			

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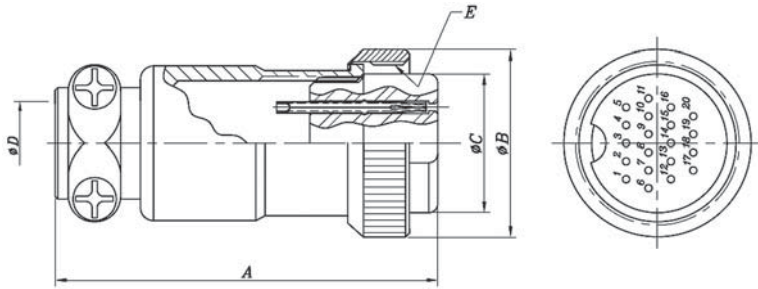
## SCK / SCN Series Mini-map



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# SCK Series – SCK Plug, Lock-Type Plug, Right-Angle Plug

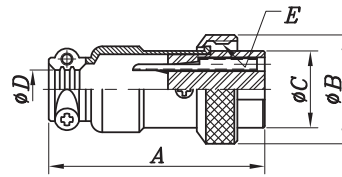
## SCK Plug



SCK-20-20(P)

Part Number	A	ØB	ØC	ØD	E					
SCK-12-2(P)	28.6	14.5	9.2	5.0	M13×0.75P					
SCK-12-4(P)										
SCK-16-2(P)	35.7	18.2	12.6	6.4	M16×1.0P					
SCK-16-3(P)										
SCK-16-4(P)										
SCK-16-5(P)										
SCK-16-8(P)										
SCK-20-2(P)	42.5	21.8	15.5	8.2	M19×1.0P					
SCK-20-3(P)										
SCK-20-4(P)										
SCK-20-5(P)										
SCK-20-6(P)										
SCK-20-8(P)										
SCK-20-10(P)										
SCK-20-20(P)	50.0	28.2	21.5	11.0	M25×1.25P					
SCK-25-2(P)										
SCK-25-3(P)										
SCK-25-4(P)										
SCK-25-5(P)										
SCK-25-6(P)										
SCK-25-8(P)										
SCK-25-10(P)										
SCK-25-12(P)										
SCK-30-2(P)						53.5	33.0	25.0	13.0	M29×1.0P
SCK-30-3(P)										
SCK-30-4(P)										
SCK-30-6(P)										
SCK-30-8(P)										
SCK-30-10(P)										
SCK-30-14(P)	59.0	37.8	28.3	15.0	M34×1.0P					
SCK-32-2(P)										
SCK-32-3(P)										
SCK-32-4(P)										
SCK-40-2(P)	67.7	45.5	34.8	18.0	M41.5×1.5P					
SCK-40-3(P)										
SCK-40-4(P)										
SCK-40-12(P)										

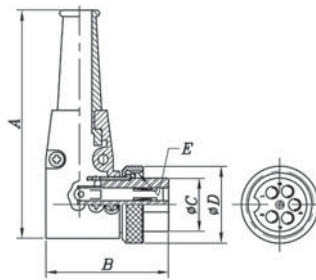
## SCK Series Plug (Lock Type)



SCK-16-6(P, L/T)

Part Number	A	ØB	ØC	ØD	E
SCK-16-4(P, L/T)	36.0	18.2	12.6	6.4	M16×1.0P
SCK-16-5(P, L/T)					
SCK-16-6(P, L/T)					
SCK-16-7(P, L/T)					
SCK-16-8(P, L/T)					

## SCK Right-Angle Plug



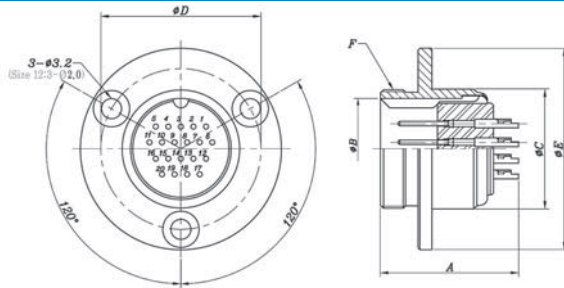
SCK-16-5(PL)

Part Number	A	B	ØC	ØD	E
SCK-16-4(PL, L/T)	54.0	29	12.6	18.2	M16×1.0P
SCK-16-5(PL, L/T)					
SCK-16-6(PL, L/T)					
SCK-16-7(PL, L/T)					
SCK-16-8(PL, L/T)					

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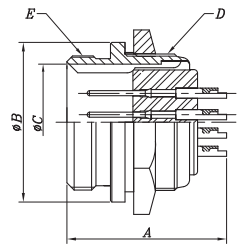
## SCK Receptacle

SCK-20-20(R)



## SCN Receptacle

SCN-20-20(R)



Part Number	A	ØB	ØC	D	E					
SCN-12-2(R)	17.3	15.0	9.6	M12×0.75P	M13×0.75P					
SCN-12-4(R)										
SCN-16-2(R)	20.6	18.8	13.0	M16×0.75P	M16×1.0P					
SCN-16-3(R)										
SCN-16-4(R)										
SCN-16-5(R)										
SCN-16-6(R)										
SCN-16-7(R)										
SCN-16-8(R)										
SCN-20-2(R)						22.0	23.0	15.9	M19×0.75P	M19×1.0P
SCN-20-3(R)										
SCN-20-4(R)										
SCN-20-5(R)										
SCN-20-6(R)										
SCN-20-8(R)										
SCN-20-10(R)										
SCN-20-20(R)										
SCN-25-2(R)	28.0	29.0	21.9	M25×1.0P	M25×1.25P					
SCN-25-3(R)										
SCN-25-4(R)										
SCN-25-5(R)										
SCN-25-6(R)										
SCN-25-8(R)										
SCN-25-10(R)										
SCN-25-12(R)										

Part Number	A	ØB	ØC	ØD	ØE	F						
SCK-12-2(R)	17.3	9.6	11.8	17.0	22.0	M13×0.75P						
SCK-12-4(R)												
SCK-16-2(R)	21.0	13.0	15.9	24.0	30.7	M16×1.0P						
SCK-16-3(R)												
SCK-16-4(R)												
SCK-16-5(R)												
SCK-16-6(R)												
SCK-16-7(R)												
SCK-16-8(R)												
SCK-20-2(R)							22.0	16.0	19.0	25.5	32.0	M19×1.0P
SCK-20-3(R)												
SCK-20-4(R)												
SCK-20-5(R)												
SCK-20-6(R)												
SCK-20-8(R)												
SCK-20-10(R)												
SCK-20-20(R)												
SCK-25-2(R)	27.5	21.9	25.0	34.0	42.0	M25×1.25P						
SCK-25-3(R)												
SCK-25-4(R)												
SCK-25-5(R)												
SCK-25-6(R)												
SCK-25-8(R)												
SCK-25-10(R)												
SCK-25-12(R)												
SCK-30-2(R)							28.2	25.7	29.0	37.0	45.5	M29×1.0P
SCK-30-3(R)												
SCK-30-4(R)												
SCK-30-6(R)												
SCK-30-8(R)												
SCK-30-10(R)												
SCK-30-14(R)												
SCK-32-2(R)	33.5	28.9	32.0	42.0	50.8	M34×1.0P						
SCK-32-3(R)												
SCK-32-4(R)												
SCK-40-2(R)	39.5	35.5	40.0	50.0	58.0	M41.5×1.5P						
SCK-40-3(R)												
SCK-40-4(R)												
SCK-40-12(R)												

Specifications subject to change without notice. Consult Sam Woo Electronics for the latest specifications.

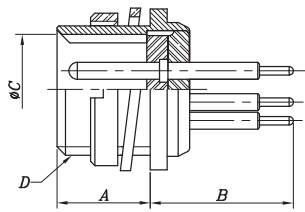


# SCK Series – SCA Adapter

## SCN PCB Receptacle

Solder type also available

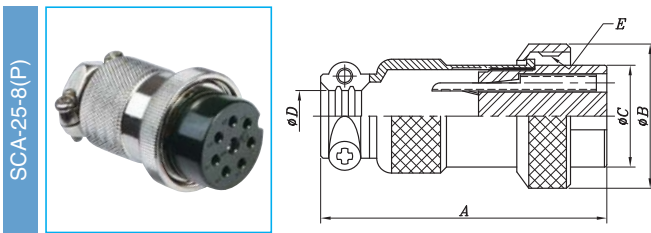
SCN-16-8(BRPCB)



Part Number	A	B	ØC	D
SCN-16-2(BRPCB)	11.0	11.7-17.7 (Customizable)	13	M16×1.0P
SCN-16-3(BRPCB)				
SCN-16-4(BRPCB)				
SCN-16-5(BRPCB)				
SCN-16-6(BRPCB)				
SCN-16-7(BRPCB)				
SCN-16-8(BRPCB)				
SCN-20-3(BRPCB)	12.5	11.7-17.7 (Customizable)	16	M19×1.0P
SCN-20-4(BRPCB)				

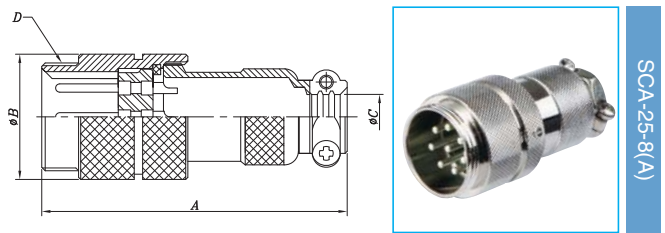
Specifications subject to change without notice. Consult Sam Woo Electronics for the latest specifications.

## SCA Adapter (Socket Contact)



Part Number	A	ØB	ØC	ØD	E					
SCA-16-2(P)	35.7	18.2	12.6	6.4	M16×1.0P					
SCA-16-3(P)										
SCA-16-4(P)										
SCA-16-5(P)										
SCA-16-8(P)										
SCA-20-2(P)	42.5	21.8	15.5	8.2	M19×1.0P					
SCA-20-3(P)										
SCA-20-4(P)										
SCA-20-5(P)										
SCA-20-6(P)										
SCA-20-8(P)										
SCA-20-10(P)										
SCA-20-20(P)										
SCA-25-2(P)	50.0	28.2	21.5	11.0	M25×1.25P					
SCA-25-3(P)										
SCA-25-4(P)										
SCA-25-5(P)										
SCA-25-6(P)										
SCA-25-8(P)										
SCA-25-10(P)										
SCA-25-12(P)										
SCA-30-2(P)						53.5	33.0	25.0	13.0	M29×1.0P
SCA-30-3(P)										
SCA-30-4(P)										
SCA-30-6(P)										
SCA-30-8(P)										
SCA-32-2(P)	59.0	38.2	28.0	15.0	M34×1.0P					
SCA-32-3(P)										
SCA-32-4(P)										
SCA-40-2(P)	67.7	45.5	34.8	18.0	M41.5×1.5P					
SCA-40-3(P)										
SCA-40-4(P)										
SCA-40-12(P)										

## SCA Adapter (Pin Contact)



Part Number	A	ØB	ØC	D				
SCA-16-2(A)	43.7	18.2	6.4	M16×1.0P				
SCA-16-3(A)								
SCA-16-4(A)								
SCA-16-5(A)								
SCA-16-8(A)								
SCA-20-2(A)	49.0	21.8	8.2	M19×1.0P				
SCA-20-3(A)								
SCA-20-4(A)								
SCA-20-5(A)								
SCA-20-6(A)								
SCA-20-8(A)								
SCA-20-10(A)								
SCA-20-20(A)								
SCA-25-2(A)	56.2	28.2	11.0	M25×1.25P				
SCA-25-3(A)								
SCA-25-4(A)								
SCA-25-5(A)								
SCA-25-6(A)								
SCA-25-8(A)								
SCA-25-10(A)								
SCA-25-12(A)								
SCA-30-2(A)					62.0	33.0	13.0	M29×1.0P
SCA-30-3(A)								
SCA-30-4(A)								
SCA-30-6(A)								
SCA-30-8(A)								
SCA-32-2(A)	67.5	38.2	15.0	M34×1.0P				
SCA-32-3(A)								
SCA-32-4(A)								
SCA-40-2(A)	74.5	45.5	18.0	M41.5×1.5P				
SCA-40-3(A)								
SCA-40-4(A)								
SCA-40-12(A)								

## SCA Adapter (Set)



SCA Adapter sets are available.  
 SCA sets include both Pin and Socket adapter.  
 To order a set, choose **(P.A)** at the end of part number.

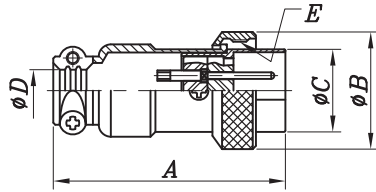
ex) To order SCA-25-10(P) and SCA-25-10(A),  
 Select **SCA-25-10(P.A)**

Specifications subject to change without notice. Consult Sam Woo Electronics for the latest specifications.

# SCK Series – SCA Adapter

## SCKH Plug

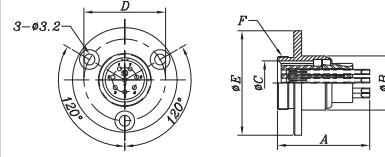
SCKH-16-8(P)



Part Number	A	ØB	ØC	ØD	E
SCKH-16-4(P)	36.0	18.2	12.7	6.4	M16×1.0P
SCKH-16-5(P)					
SCKH-16-8(P)					
SCKH-20-18(P)	42.3	21.8	15.6	8.2	M19×1.0P
SCKH-25-2(P)	50.0	28.2	21.5	11.0	M25×1.25P
SCKH-25-4(P)					
SCKH-30-2(P)	54.0	33.0	25.0	13.0	M29×1.0P

## SCKH Receptacle

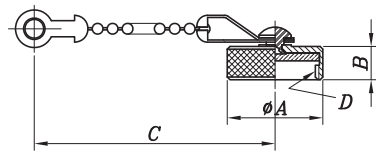
SCKH-16-8(R)



Part Number	A	ØB	ØC	ØD	ØE	F
SCKH-16-4(R)	28.2	15.9	13.0	24.0	30.7	M16×1.0P
SCKH-16-5(R)						
SCKH-16-8(R)						
SCKH-20-18(R)	20.6	19	15.9	25.5	32.0	M19×1.0P
SCKH-25-2(R)	31.0	25.0	21.9	34.0	42.0	M25×1.25P
SCKH-25-4(R)						
SCKH-30-2(R)	31.0	29.0	25.7	37.0	45.5	M29×1.0P

## SCK Receptacle Cap

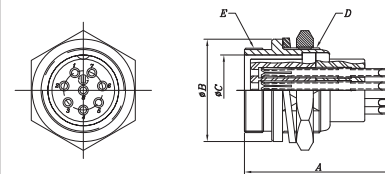
SCK-16(RC)



Part Number	ØA	B	C	D
SCK-12(RC)	14.7	4.7	130	M13×0.75P
SCK-16(RC)	18.0	6.2	130	M16×1.0P
SCK-20(RC)	21.8	7.2	170	M19×1.0P
SCK-25(RC)	28.3	7.0	170	M25×1.25P
SCK-30(RC)	32.8	7.7	170	M29×1.0P
SCK-32(RC)	37.8	8.2	170	M34×1.0P
SCK-40(RC)	45.5	9.2	170	M41.5×1.5P

## SCNH Receptacle

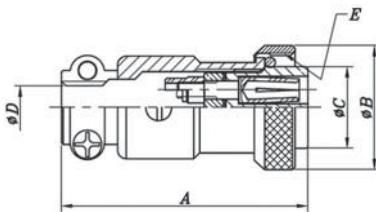
SCNH-16-8(R)



Part Number	A	ØB	ØC	D	E
SCNH-16-4(R)	20.6	18.8	13.0	M16×0.75P	M16×1.0P
SCNH-16-5(R)					
SCNH-16-8(R)					
SCNH-20-18(R)	20.5	23.0	15.9	M19×0.75P	M19×1.0P
SCNH-25-2(R)	22.0	29.0	21.9	M25×1.0P	M25×1.25P
SCNH-25-4(R)					

## SCK Waterproof Plug

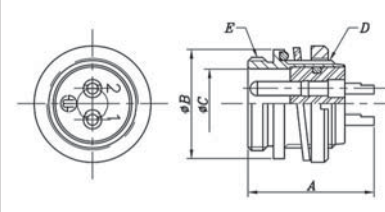
SCK-12-2(P,W)



Part Number	A	ØB	ØC	ØD	E
SCK-12-2(P,W)	28.6	14.5	9.2	5.0	M13×0.75P
SCK-12-4(P,W)					

## SCN Waterproof Receptacle

SCN-12-2(R,W)

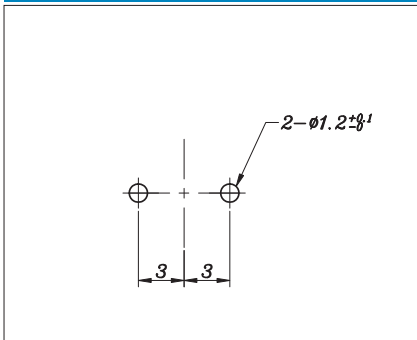


Part Number	A	ØB	ØC	D	E
SCN-12-2(R,W)	17.3	15.0	9.6	M12×0.75P	M13×0.75P
SCN-12-4(R,W)					

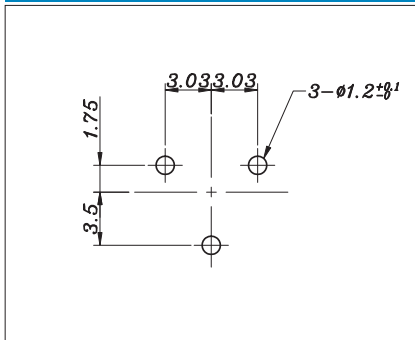
Specifications subject to change without notice. Consult Sam Woo Electronics for the latest specifications.

SCN-16 BRPCB Series PCB Hole Layout

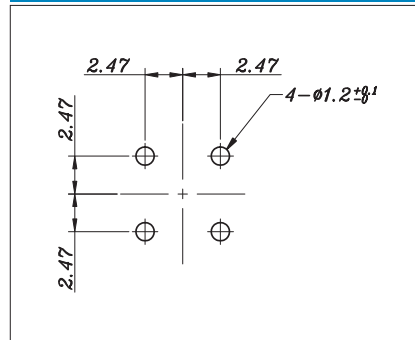
16 size - 2 core



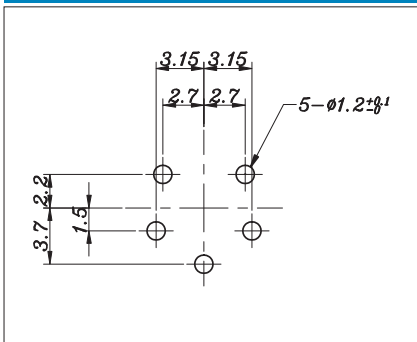
16 size - 3 core



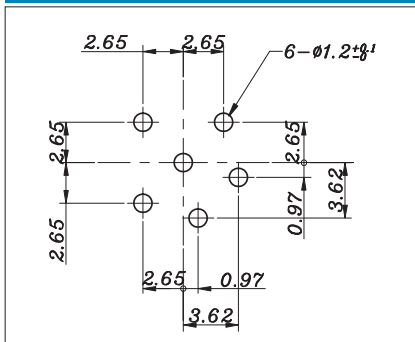
16 size - 4 core



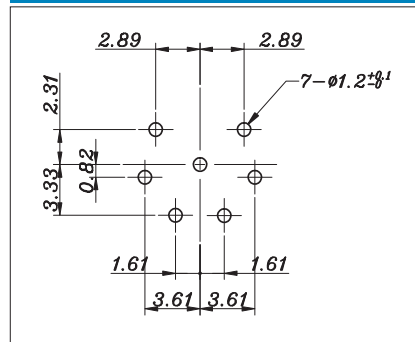
16 size - 5 core



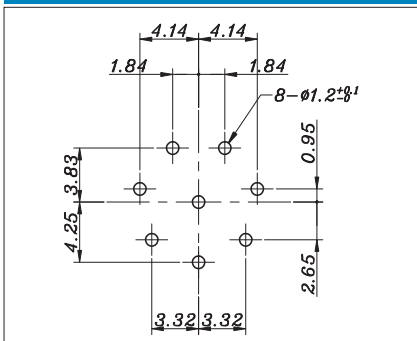
16 size - 6 core



16 size - 7 core

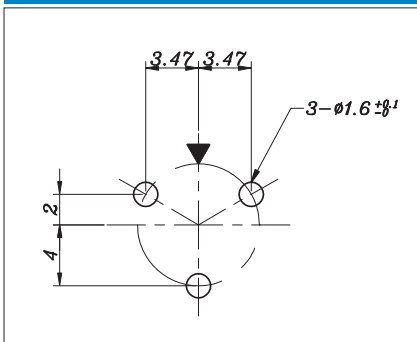


16 size - 8 core

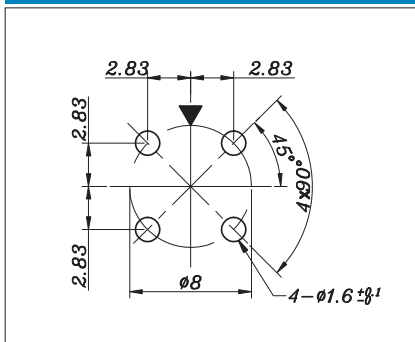


SCN-20 BRPCB Series PCB Hole Layout

20 size - 3 core



20 size - 4 core



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