

SCN / SCK Series Part Numbering



Features

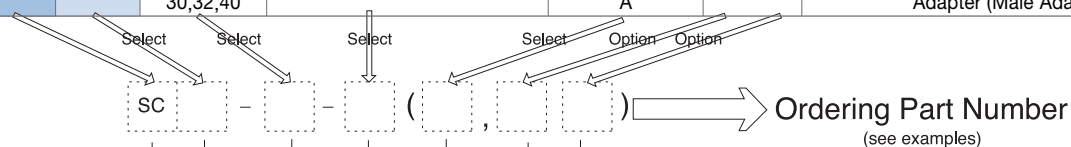
- Rugged
- Simple construction
- Stable mechanical / Electrical performances

Applications

- Electric / Electronic
- Communication

Part Numbering

Product Number		Size	Number of Contacts	Suffix	Option	Notes
Series	Prefix			(Body Type)	L/T	
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 40 size:2,3,4,12 Check each product for more detail	P	●	SCK series plug
				PL	●	SCK series Right-angle plug
				R		Receptacle (Panel type)
				RC		Receptacle Cover
	N	12,16,20,25		R		Receptacle (Nut type)
				RPCB		Receptacle (PCB type)
				BRPCB		Bulkhead Receptacle
				P		Plug (Reverse contact)
	KH	16,25,30		R		Receptacle (Reverse contact)
				R		Receptacle (Reverse contact)
	NH	16,20		P		Adapter (Female Adapter)
				A		Adapter (Male Adapter)



Examples

SCK - 12 - 4 (P)

SCK series - Size 12 Plug - 4 Female Contacts

SCK - 16 - 8 (R)

SCK series - Size 16 Panel Type Receptacle - 8 Male Contacts

SCN - 20 - 10 (R)

SCN series - Size 20 Nut Type Receptacle - 10 Male Contacts

SCA - 30 - 2 (P)

SCA series - Size 30 Adapter - 2 Female Contacts

SCK - 16 - 4 (P , L/T)

SCK series - Size 16 Plug - 4 Female Contact (Lock Type)

SCK - 16 - 8 (PL , L/T)

SCK series - Size 16 Right Angle Plug - 8 Female Contacts

SCN - 16 - 7 (RPCB)

SCN series - Size 16 PCB Receptacle - 7 Male Contactscontact

Connector Series (Body Type)

SCK - Plug(Female) / Receptacle(Male)

SCN - Nut type receptacle(Male)

SCKH - Plug(Male) / Receptacle(Female)

SCNH - Receptacle(Female)

SCA - Adapter

Size

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

No. of Contacts

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

40 Size : 2,3,4,12

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)

■ Major Performances / Contact Arrangements

Performance Size / No. of Contacts		Withstanding Voltage/min.	Current	Insulation Resistance (Minimum)	Contact Resistance (Maximum)	Contact $\varnothing$	Solder Pot $\varnothing$	Wire Gauge (Maximum)	Contact Arrangement
12	2	AC 500V	4A	1,000M Ω	5m Ω	2.0	1.2	AWG20	
			3A			1.5	1.2	AWG20	
	4	AC 500V	4A	1,000M Ω	5m Ω	2.0	1.2	AWG20	
			3A			1.0	1.0	AWG20	
16	2	AC 500V	5A	1,000M Ω	5m Ω	2.5	1.5	AWG18	
	3	AC 500V	5A	1,000M Ω	5m Ω	2.5	1.5	AWG18	
	4	AC 500V	5A	1,000M Ω	5m Ω	2.5	1.5	AWG18	
	5	AC 500V	4A	1,000M Ω	5m Ω	2.0	1.2	AWG20	
	6	AC 500V	3A	1,000M Ω	5m Ω	1.2	1.0	AWG20	
	7	AC 500V	3A	1,000M Ω	5m Ω	1.2	1.0	AWG20	
	8	AC 500V	3A	1,000M Ω	5m Ω	1.2	1.0	AWG20	
20	2	AC 1000V	7A	1,000M Ω	5m Ω	3.0	2.2	AWG14	
	3	AC 1000V	7A	1,000M Ω	5m Ω	3.0	2.2	AWG14	
	4	AC 1000V	7A	1,000M Ω	5m Ω	3.0	2.2	AWG14	
	5	AC 1000V	7A	1,000M Ω	5m Ω	3.0	2.2	AWG14	
	6	AC 1000V	4A	1,000M Ω	5m Ω	2.0	1.5	AWG18	
	8	AC 1000V	3A	1,000M Ω	5m Ω	1.5	1.0	AWG20	
	10	AC 1000V	3A	1,000M Ω	5m Ω	1.5	1.0	AWG20	
	20	AC 1000V	2A	1,000M Ω	5m Ω	0.7	0.8	AWG22	

■ Symbol for Contact Diameter

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

SCN / 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	Wire Gauge (Maximum)	Contact Arrangement
25	2	AC 1000V	10A	1,000M Ω	5m Ω	3,5	2,7	AWG12	
	3	AC 1000V	10A	1,000M Ω	5m Ω	3,5	2,7	AWG12	
	4	AC 1000V	10A	1,000M Ω	5m Ω	3,5	2,7	AWG12	
	5	AC 1000V	10A	1,000M Ω	5m Ω	3,5	2,7	AWG12	
	6	AC 1000V	4A	1,000M Ω	5m Ω	2,0	1,5	AWG18	
	8	AC 1000V	4A	1,000M Ω	5m Ω	2,0	1,5	AWG18	
	10	AC 1000V	4A	1,000M Ω	5m Ω	2,0	1,5	AWG18	
	12	AC 1000V	4A	1,000M Ω	5m Ω	2,0	1,5	AWG18	
30	2	AC 500V	15A	1,000M Ω	5m Ω	3,5	2,7	AWG12	
	3	AC 500V	15A	1,000M Ω	5m Ω	3,5	2,7	AWG12	
	4	AC 500V	15A	1,000M Ω	5m Ω	3,5	2,7	AWG12	
	6	AC 1000V	15A	1,000M Ω	5m Ω	3,5	2,7	AWG12	
	8	AC 1000V	15A	1,000M Ω	5m Ω	3,5	2,7	AWG12	
	10	AC 1000V	5A	1,000M Ω	5m Ω	2,5	2,2	AWG14	
	14	AC 1000V	4A	1,000M Ω	5m Ω	1,8	1,2	AWG20	

■ Symbol for Contact Diameter

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

■ Major Performances / Contact Arrangements

Performance Size / No. of Contacts		Withstanding Voltage/min.	Current	Insulation Resistance (Minimum)	Contact Resistance (Maximum)	Contact Ø	Solder Pot Ø	Wire Gauge (Maximum)	Contact Arrangement
32	2	AC 1000V	40A	1,000M Ω	5m Ω	7.0	4.1	AWG8	
	3	AC 1000V	40A	1,000M Ω	5m Ω	7.0	4.1	AWG8	
	4	AC 1000V	30A	1,000M Ω	5m Ω	6.0	4.2	AWG6	
40	2	AC 1000V	40A	1,000M Ω	5m Ω	7.0	4.5	AWG6	
	3	AC 1000V	40A	1,000M Ω	5m Ω	7.0	4.5	AWG6	
	4	AC 1000V	40A	1,000M Ω	5m Ω	7.0	4.5	AWG6	
	12	AC 1000V	10A	1,000M Ω	5m Ω	3.0	2.0	AWG14	
			4A			2.0	1.5	AWG18	

! ¹ Withstanding voltage is the tested voltage value in this table.

² Insulation resistance is measured at DC 100V.

³ Contact resistance is measured at DC 1A.

• Values are from tested items and may not apply to all connectors.

⁴ Connector contact arrangement is from mating surface.

■ Symbol for Contact Diameter

Mark	            													
Diameter	0,7	1,0	1,2	1,5	1,8	2,0	2,5	3,0	3,5	4,0	4,5	6,0	7,0	

■ Material Used / Finish

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

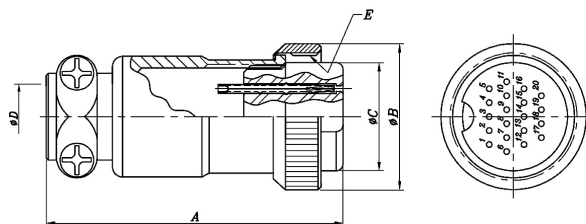
■ SCK / SCN Series Mini-map



SCN / SCK Series

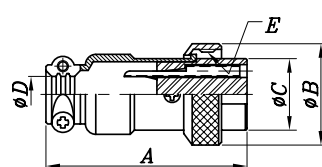
SCK Plug, Lock-Type Plug, Right-Angle Plug

■ SCK Plug



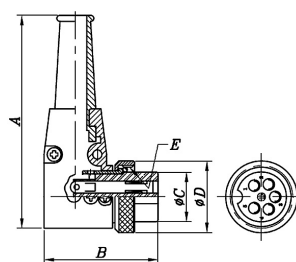
Product Number	A	ø B	ø C	ø D	E
SCK-12- 2(P)	28,6	14,5	9,2	5,0	M13×0,75P
SCK-12- 4(P)					
SCK-16- 2(P)	35,7	18,2	12,6	6,4	M16×1,0P
SCK-16- 3(P)					
SCK-16- 4(P)					
SCK-16- 5(P)					
SCK-20- 2(P)	42,5	21,8	15,5	8,2	M19×1,0P
SCK-20- 3(P)					
SCK-20- 4(P)					
SCK-20- 5(P)					
SCK-20- 6(P)					
SCK-20- 8(P)					
SCK-20-10(P)					
SCK-20-20(P)					
SCK-25- 2(P)	50,0	28,2	21,5	11,0	M25×1,25P
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)					
SCK-32- 2(P)	59,0	37,8	28,3	15,0	M34×1,0P
SCK-32- 3(P)					
SCK-32- 4(P)	67,7	45,5	34,8	18,0	M41,5×1,5P
SCK-40- 2(P)					
SCK-40- 3(P)					
SCK-40- 4(P)					
SCK-40-12(P)					

■ SCK Series Plug (Lock Type)



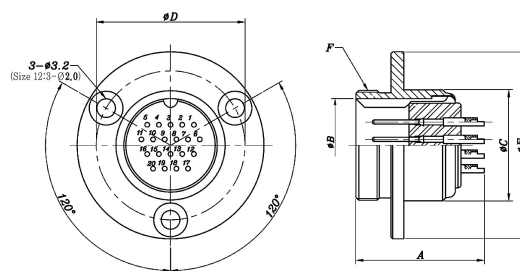
Product Number	A	ø B	ø C	ø D	E
SCK-16-4(P, L/T)	36,0	18,2	12,6	6,4	M16×1,0P
SCK-16-5(P, L/T)					
SCK-16-6(P, L/T)					
SCK-16-7(P, L/T)					
SCK-16-8(P, L/T)					

■ SCK Right-Angle Plug

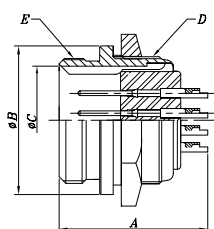


Product Number	A	B	ø C	ø D	E
SCK-16-4(P, L/T)-L	54,0	29	12,6	18,2	M16×1,0P
SCK-16-5(P, L/T)-L					
SCK-16-6(P, L/T)-L					
SCK-16-7(P, L/T)-L					
SCK-16-8(P, L/T)-L					

■ SCK Receptacle



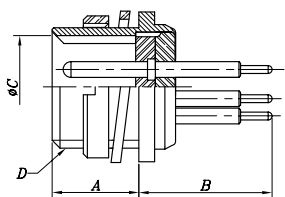
■ SCN Receptacle



Product Number	A	ø B	ø C	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)	28,0	29,0	21,9	M25×1,0P	M25×1,25P
SCN-25- 2(R)					
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)					

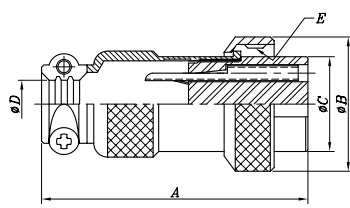
Product Number	A	Ø B	Ø C	Ø D	Ø E	F
SCK-12- 2(R)	17,3	9,6	11,8	17,0	22,0	M13×0,75P
SCK-12- 4(R)						
SCK-16- 2(R)	21,0	13,0	15,9	24,0	30,7	M16×1,0P
SCK-16- 3(R)						
SCK-16- 4(R)						
SCK-16- 5(R)						
SCK-16- 6(R)						
SCK-16- 7(R)						
SCK-16- 8(R)						
SCK-20- 2(R)	22,0	16,0	19,0	25,5	32,0	M19×1,0P
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)	27,5	21,9	25,0	34,0	42,0	M25×1,25P
SCK-25- 2(R)						
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)	28,2	25,7	29,0	37,0	45,5	M29×1,0P
SCK-30- 2(R)						
SCK-30- 3(R)						
SCK-30- 4(R)						
SCK-30- 6(R)						
SCK-30- 8(R)						
SCK-30-10(R)						
SCK-30-14(R)	33,5	28,9	32,0	42,0	50,8	M34×1,0P
SCK-32- 2(R)						
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)						

■ SCN PCB Receptacle Solder type also available



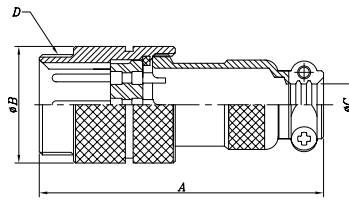
Product Number	A	B	ϕC	D
SCN-16-2(BRPCB)	11,0	11,7~17,7 (Customizable)	13	M16×1,0P
SCN-16-3(BRPCB)				
SCN-16-4(BRPCB)				
SCN-16-5(BRPCB)				
SCN-16-6(BRPCB)				
SCN-16-7(BRPCB)				
SCN-16-8(BRPCB)				
SCN-20-3(BRPCB)	12,5	11,7~17,7 (Customizable)	16	M19×1,0P
SCN-20-4(BRPCB)				

■ SCA Adapter (Female Contact)



Product Number	A	Ø B	Ø C	Ø D	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-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)	50,0	28,2	21,5	11,0	M25×1,25P
SCA-20-20(P)					
SCA-25- 2(P)					
SCA-25- 3(P)					
SCA-25- 4(P)	53,5	33,0	25,0	13,0	M29×1,0P
SCA-25- 5(P)					
SCA-25- 6(P)					
SCA-25- 8(P)					
SCA-25-10(P)	59,0	38,2	28,0	15,0	M34×1,0P
SCA-25-12(P)					
SCA-30- 2(P)					
SCA-30- 3(P)					
SCA-30- 4(P)	67,7	45,5	34,8	18,0	M41,5×1,5P
SCA-30- 6(P)					
SCA-30- 8(P)					
SCA-32- 2(P)					
SCA-32- 3(P)	74,5	45,5	34,8	18,0	M41,5×1,5P
SCA-32- 4(P)					
SCA-40- 2(P)					
SCA-40- 3(P)					
SCA-40- 4(P)					
SCA-40-12(P)					

■ SCA Adapter (Male Contact)



Product Number	A	Ø B	Ø C	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-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)	56,2	28,2	11,0	M25×1,25P
SCA-20-20(A)				
SCA-25- 2(A)				
SCA-25- 3(A)				
SCA-25- 4(A)	62,0	33,0	13,0	M29×1,0P
SCA-25- 5(A)				
SCA-25- 6(A)				
SCA-25- 8(A)				
SCA-25-10(A)	67,5	38,2	15,0	M34×1,0P
SCA-25-12(A)				
SCA-30- 2(A)				
SCA-30- 3(A)				
SCA-30- 4(A)	74,5	45,5	18,0	M41,5×1,5P
SCA-30- 6(A)				
SCA-30- 8(A)				
SCA-32- 2(A)				
SCA-32- 3(A)	74,5	45,5	18,0	M41,5×1,5P
SCA-32- 4(A)				
SCA-40- 2(A)				
SCA-40- 3(A)				
SCA-40- 4(A)				
SCA-40-12(A)				

■ SCA Adapter (Set)



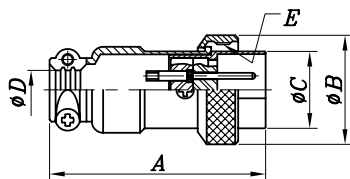
SCA Adapter sets are available.

SCA sets include both Male and Female adapter.

To order a set, choose (P,A) at the end of part number.

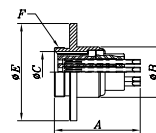
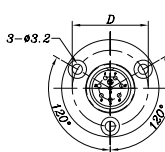
ex) To order SCA-25-10(P) and SCA-25-10(A),
Select SCA-25-10(P,A)

■ SCKH Plug



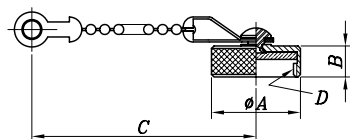
Product Number	A	φ B	φ C	φ D	E
SCKH-16- 4(P)	36,0	18,2	12,7	6,4	M16×1,0P
SCKH-16- 5(P)					
SCKH-16- 8(P)					
SCKH-20-18(P)	42,3	21,8	15,6	8,2	M19×1,0P
SCKH-25- 2(P)	50,0	28,2	21,5	11,0	M25×1,25P
SCKH-25- 4(P)					
SCKH-30- 2(P)	54,0	33,0	25,0	13,0	M29×1,0P

■ SCKH Receptacle



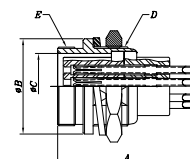
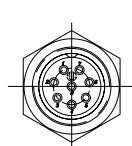
Product Number	A	φ B	φ C	φ D	φ E	F
SCKH-16- 4(R)	28,2	15,9	13,0	24,0	30,7	M16×1,0P
SCKH-16- 5(R)						
SCKH-16- 8(R)						
SCKH-20-18(R)	20,6	19	15,9	25,5	32,0	M19×1,0P
SCKH-25- 2(R)	31,0	25,0	21,9	34,0	42,0	M25×1,25P
SCKH-25- 4(R)						
SCKH-30- 2(R)	31,0	29,0	25,7	37,0	45,5	M29×1,0P

■ SCK Receptacle Cap



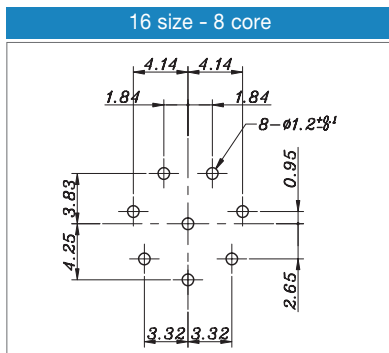
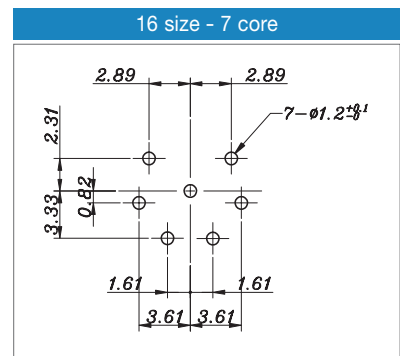
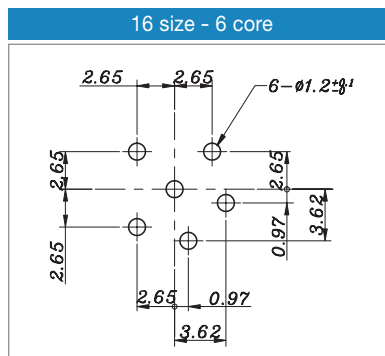
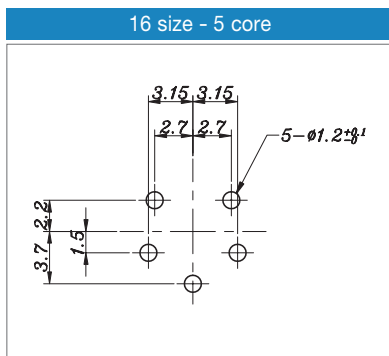
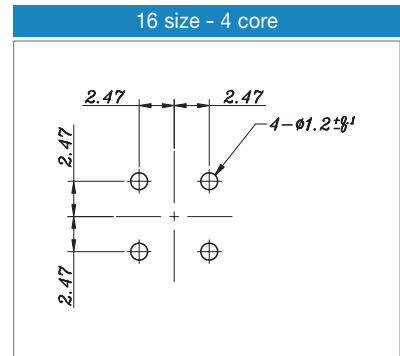
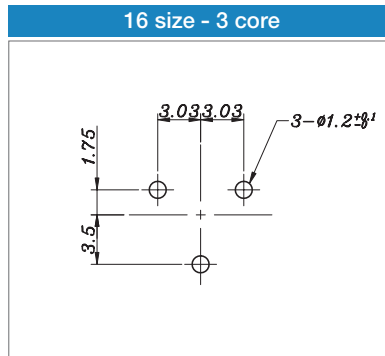
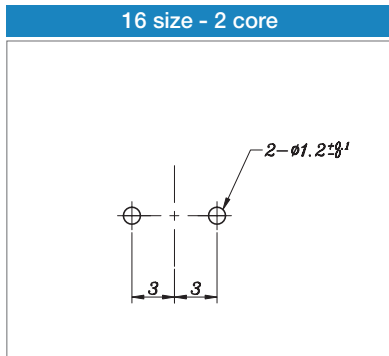
Product Number	φ A	B	C	D
SCK-12(RC)	14,7	4,7	130	M13×0,75P
SCK-16(RC)	18,0	6,2	130	M16×1,0P
SCK-20(RC)	21,8	7,2	170	M19×1,0P
SCK-25(RC)	28,3	7,0	170	M25×1,25P
SCK-30(RC)	32,8	7,7	170	M29×1,0P
SCK-32(RC)	37,8	8,2	170	M34×1,0P
SCK-40(RC)	45,5	9,2	170	M41,5×1,5P

■ SCNH Receptacle

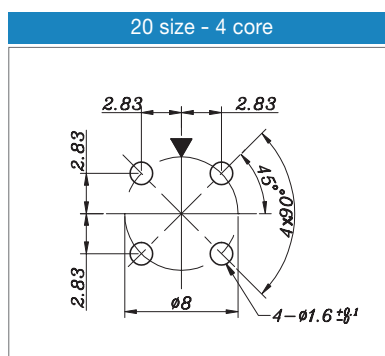
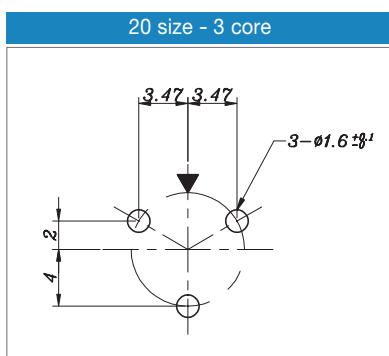


Product Number	A	φ B	φ C	D	E
SCNH-16- 4(R)	20,6	18,8	13,0	M16×0,75P	M16×1,0P
SCNH-16- 5(R)					
SCNH-16- 8(R)					
SCNH-20-18(R)	20,5	23,0	15,9	M19×0,75P	M19×1,0P
SCNH-25- 2(R)	22,0	29,0	21,9	M25×1,0P	M25×1,25P
SCNH-25- 4(R)					

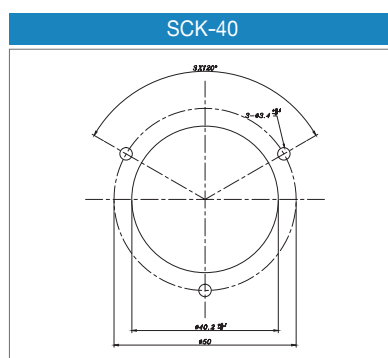
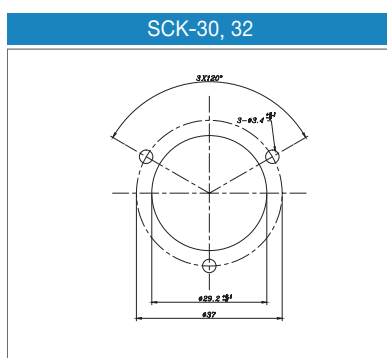
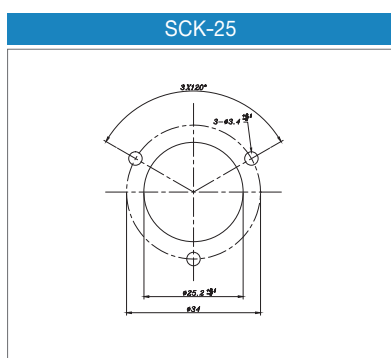
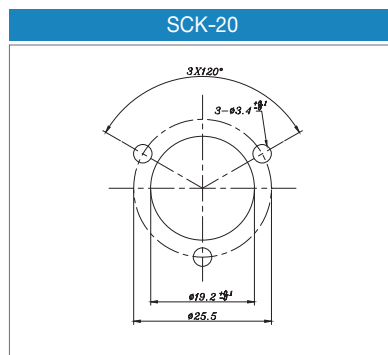
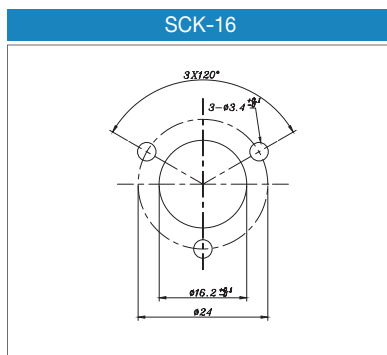
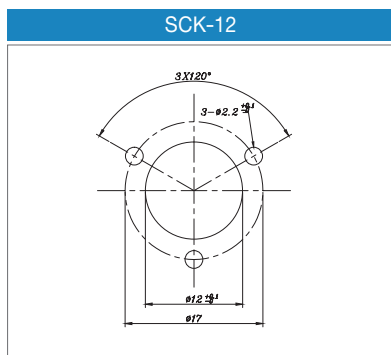
■ SCN-16 BRPCB Series PCB Hole Layout



■ SCN-20 BRPCB Series PCB Hole Layout



■ SCK Series Panel Layout



■ SCN Series Panel Lay Out

