SN Series

Part Numbering



Features

- Push-pull technology
- Miniature circular
- Light weight
- Low cost

Applications

- Professional audio and video
- CCTV system
- Portable wireless radio
- Factory Automation
- Computers and peripherals
- Medical and much more

■ Part Numbering

oduct Numbe	Size	Number of Contacts	Suffix	Optiona	al Suffix	Contact	Notes
eries Prefix	Size	Number of Contacts	Julia	S	В	Туре	Notes
			P/PS		•	Р	Plug
			PL		•	P	Right-angle plug
			R	•	•	S	Receptacle
			RPCB	•	•	S	PCB receptacle
			LRPCB	•	•	s	Right-angle PCB receptacle
			P/PS		•	S	Plug
			PL		•	S	Right-angle plug
Н		8 size : 4,5,6	R	•	•	Р	Receptacle
N	8 or 10	10 size : 2,3,4,9,10,12	RPCB	•	•	Р	PCB receptacle
		10 3126 . 2,0,4,3,10,12	LRPCB	•	•	P	Right-angle PCB receptacle
1			Р		•	P	Plug (Clamp type)
1H			Р		•	S	Plug (Clamp type)
А				•	•	S	Adapter
HA				•	•	Р	Adapter
2			Р		•	Р	Plug (Screw-on type)
			R	•	•	S	Receptacle (Screw-on type)
2A				•	•	S	Adapter (Screw-on type)
Ľ	SN	- [] - [] (SN - S	ector Series	
E.	5N	- [)-		SN - S SNH - SN1 - SN1H SNA -	nector Series Reverse cor Clamp type - Clamp typ Adapter for	(see examples) es (Prefix) ntact plug e & reverse contact plug
i.	SN .				SN - S SNH - SN1 - SN1H SNA - SNHA SN2 -	Reverse con Clamp type - Clamp type Adapter for - Adapter for Screw-on ty	(see examples) es (Prefix) ntact plug e & reverse contact plug SN series or SNH series
mples - 8 - 4 (P)		-			SN - S SNH - SN1 - SN1H SNA - SNHA SN2 -	Reverse con Clamp type - Clamp type - Clamp type Adapter for - Adapter for Screw-on ty - Adapter fo	(see examples) es (Prefix) ntact plug e & reverse contact plug SN series or SNH series pe r SN2 series
amples - 8 - 4 (P) aries - Size 8 Plug - 8 - 6 (RPC	- 4 Male Conta				SN - S SNH - SN1 - SN1 + SNA - SNHA SN2 - SN2A Size 8,10 No. o	Reverse con Clamp type - Clamp type - Clamp type - Adapter for - Adapter for - Adapter for - Adapter for - B: Bla	(see examples) es (Prefix) ntact plug e & reverse contact plug SN series or SNH series pe r SN2 series nck plug housing
Imples - 8 - 4 (P) rries - Size 8 Plug - 8 - 6 (RPC rries - Size 8 PCB - 8 - 6 (P)	- 4 Male Conta CB) Receptacle - 6	Female Contact			SN - S SNH - SN1 - SN1H SNA - SNHA SN2 - SN2A Size 8,10 No. o 8 Size Body	Reverse cor Clamp type - Clamp type - Clamp type - Adapter for - Adapter for - Adapter fo Optio B: Bla f Contacts : 4,5,6	(see examples) es (Prefix) ntact plug e & reverse contact plug SN series or SNH series pe r SN2 series nck plug housing 10 Size: 2,3,4,9,10,12
mples 8 - 4 (P) ies - Size 8 Plug 8 - 6 (RPC ies - Size 8 PCB 8 - 6 (P) ies - Size 8 - 6 cc - 10 - 12 (- 4 Male Conta CB) Receptacle - 6 - SB ontact (Block I) — [SN - S SNH - SN1 - SN1H SNA - SNHA SN2 - SN2A Size 8,10 No. 0 8 Size Body P : Plu PS : S	Reverse con Clamp type - Clamp type - Clamp type - Clamp type - Adapter for - Adapter for - Adapter for - Adapter for - B: Bla f Contacts : 4,5,6 Type Ig hort Plug Ho	(see examples) Pes (Prefix) Intact plug e & reverse contact plug SN series or SNH series pe r SN2 series Ck plug housing 10 Size : 2,3,4,9,10,12 PL : Right-angle plug
Imples - 8 - 4 (P) ries - Size 8 Plug - 8 - 6 (RPC ries - Size 8 PCB - 8 - 6 (P) ries - Size 8 - 6 cc - 10 - 12 (reries - Size 10 Re	- 4 Male Conta CB) Receptacle - 6 - SB ontact (Block I R) - S ceptacle - 12 I	Female Contact Plug) - Silver Plating Contact & Black plug) — [SN - S SNH - SN1 - SN1H SNA - SN2 - SN2A Size 8,10 No. o 8 Size Body P: Plu PS: S R: Re RPCB	Reverse con Clamp type - Clamp type - Clamp type - Clamp type - Adapter for - Adapter for - Adapter for - Adapter for - Screw-on ty - Adapter for - B: Bla f Contacts : 4,5,6 Type g hort Plug Ho ceptacle (soi : Receptacle	es (Prefix) ntact plug e & reverse contact plug SN series or SNH series pe r SN2 series 10 Size : 2,3,4,9,10,12 PL : Right-angle plug susing der termination) e (PCB termination)
amples - 8 - 4 (P) series - Size 8 Plug - 8 - 6 (RP) series - Size 8 - 6 cr - 10 - 12 (series - Size 10 Re - 10 - 2 - A series - Size 10 Ar - 8 - 4 (LRF	- 4 Male Conta CB) Receptacle - 6 - SB ordinate (Block I R) - S ceptacle - 12 I S dapter - 2 con	Female Contact Plug) - Silver Plating Contact & Black plug Female Contacts - Silver Plating contact tact - Silver Plating contact			SN - S SNH - SN1 - SN1H SNA - SN2A - SN2A - Size 8,10 - No. o 8 Size Body P: Plu PS: S R: Re RPCB LRPCE	Rector Series Reverse cor Clamp type - Clamp type - Clamp type - Adapter for - Type - Receptacle - Recept	es (Prefix) ntact plug e & reverse contact plug SN series or SNH series pe r SN2 series nck plug housing the plug housing

■ Major Performances / Contact Arrangements

Size / No. of Contacts			Siz	e 8		
Performance	4	4		5		6
Withstanding Voltage (per min) ¹	AC :	300V	AC 3	300V	AC 300V	
Current	2	A	2	A	2A	
Insulation Resistance (Minimum) ²	1,000	ΟΜ Ω	1,000	ΩΜΩ	1,00	0M Ω
Contact Resistance (Maximum) ³	10r	nΩ	10r	nΩ	10r	mΩ
Solder Pot Inside Diameter	Ø	0.7	øı	0.7	ø	0.7
Wire Gauge (Maximum)	AW	G26	AW	G26	AW	G26
Contact Arrangement	4 1 0 0 0 3 2 0 0 0			1 0 0 5 6 3		0 0 6 1 5 20 4 3
Size / No. of Contacts			Size	e 10		
Performance	2	3	4	9	10	12
Withstanding Voltage (per min) ¹	AC 500V	AC 500V	AC 500V	AC 300V	AC 300V	AC 300V
Current	3A	3A	3A	2A	2A	2A
Insulation Resistance (Minimum) ²	1,000M Ω	1,000M Ω	1,000M Ω	1,000M Ω	1,000M Ω	1,000M Ω
Contact Resistance (Maximum) ³	10m Ω	10m Ω	10m Ω	10m Ω	10m Ω	10m Ω
Solder Pot Inside Diameter	ø 1.0	ø 1.0	ø 1.0	ø 0.7	ø 0.7	Ø 0.7
Wire Gauge (Maximum)	AWG20 AWG20		AWG20	AWG26	AWG26	AWG26
Contact Arrangement	AWG20 AWG20		4 1		8 1 7 0 0 2 0 10 9 0 6 0 0 3 0 5 4 0	9 1 8 O100 2 7 O12 O110 3 0 6 0 5 0 4 0 0 0 0

[■] Material Used / Finish

		Material	Finish
Вс	dy	Zinc alloy and brass	Ni Plating
Insu	lator	PA	Black
Contacts	Male	Brass	Gold or Silver Plating
Contacts	Female	Phosphor bronze	Gold or Silver Plating

Contact Diameter

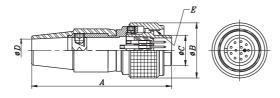
0.55mm •1.0mm

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,
4 Values are from tested items and may not apply to all connectors,
5 Specifications subject to change without notice,
Consult Sam Woo Electronics for the latest specifications,
4 Connector contact arrangement is from mating surface,



■ SN2 Plug

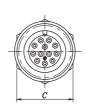


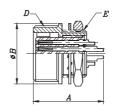


Product Number	Α	øВ	Ø C	ø D	E	Product Number	Α	ø B	Ø C	Ø D	Е
SN2-8-4 (P)		Coming soon		SN2-10-2 (P)							
SN2-8-5 (P)						SN2-10-3 (P)					
SN2-8-6 (P)	35,1	12	7	5,1	M10×0,75P	SN2-10-4 (P)	43.0	17.0	9,4	7.0	M13×0.75P
						SN2-10-9 (P)	-10,0	17.0	3,4	7.0	1010 × 0,751
						SN2-10-10 (P)					
						SN2-10-12 (P)					

■ SN2 Receptacle



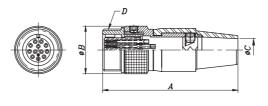




Product Number	Α	ø B	С	D	Е	Product Number	Α	øΒ	С	D	Е		
SN2-8-4 (R)		Coming soon		0				SN2-10-2 (R)					
SN2-8-5 (R)			Comin	g 500H		SN2-10-3 (R)							
SN2-8-6 (R)	14.4	10,9	10	M10×0,75P	M8×0,5P	SN2-10-4 (R)	16.5	14	13	M13×0,75P	M11×0.75P		
						SN2-10-9 (R)	10,0	1-7	10	W13 × 0,731	WITT \ 0,751		
						SN2-10-10 (R)							
						SN2-10-12 (R)							

■ SN2A Adapter



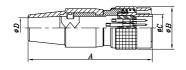


Product Number	Α	ø B	Ø C	D	Product Number	Α	ø B	Ø C	D			
SN2A-8-4					SN2A-10-2							
SN2A-8-5		Coming	soon		SN2A-10-3							
SN2A-8-6					SN2A-10-4	41 7	14.7	7.0	M13×0,75P			
								SN2A-10-9	41,7	14.7	7.0	W113 × 0,731
					SN2A-10-10							
					SN2A-10-12							

Push-pull type SN Male Plug

■ SN Plug

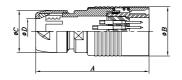




Product Number	Α	ø B	ø C	ø D
SN-8-4(P)				
SN-8-5(P)	35	11,5	7	5
SN-8-6(P)				
SN-10-2(P)				
SN-10-3(P)				
SN-10-4(P)	43	14.9	9.4	7
SN-10-9(P)	40	14,5	3,4	'
SN-10-10(P)				
SN-10-12(P)				

■ SN1 Plug

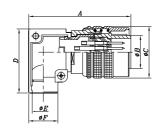




Product Number	Α	ø B	ø C	ø D
SN1-8-4(P)				
SN1-8-5(P)	28	11,0	9,0	5,2
SN1-8-6(P)				
SN1-10-2(P)		14.0	12.0	
SN1-10-3(P)				
SN1-10-4(P)	32			7.2
SN1-10-9(P)	32	14,0	12,0	1,2
SN1-10-10(P)				
SN1-10-12(P)				

■ SN Right-Angle Plug

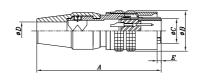




Product Number	Α	øΒ	ø C	D	øΕ	ø F
SN-8-4(PL)						
SN-8-5(PL)	25.9	7.0	11,5	14.6	5.0	6,6
SN-8-6(PL)						
SN-10-9(PL)						
SN-10-10(PL)	29,0	9.4	14,9	18,2	6,3	8,3
SN-10-12(PL)						

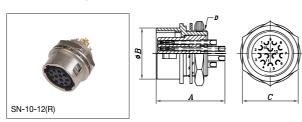
■ SN Plug (Short plug housing)





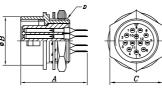
Product Number	Α	øВ	Ø C	ø D	Е
SN-8-4(PS)	35.0	11.5	70	5.1	0,6
SN-8-6(PS)	35,0	11,5	7,0	3,1	0,0

■ SN Receptacle



Product Number	Α	øΒ	С	D	Product Number	Α	øΒ	С	D	
SN-8-4 (R)						SN-10-2 (R)				
SN-8-5 (R)	14,5	8,8	10,0	M8×0,5P	SN-10-3 (R)	15				
SN-8-6 (R)					SN-10-4 (R)			40.0	144 075D	
					SN-10-9(R)		11,9	13,0	M11×0,75P	
					SN-10-10(R)	16,5				
					SN-10-12(R)					

■ SN PCB Receptacle





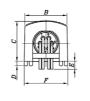


Product Number	Α	øΒ	С	D	Product Number	Α	ø B	С	D
SN-8-4 (RPCB)					SN-10-2 (RPCB)				
SN-8-5 (RPCB)	15,7	8,8	10	M8×0,5P	SN-10-3 (RPCB)				
SN-8-6 (RPCB)					SN-10-4 (RPCB)	400		40	144 0750
					SN-10-9(RPCB)	16,2	11,9	13	M11×0,75P
					SN-10-10(RPCB)				
					SN-10-12(RPCB)				

■ SN Right Angle PCB Receptacle (Any Type) ■ SN Right Angle PCB Receptacle (Magic Type)

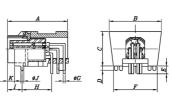






Product Number	Α	В	С	D	Е	F	ø G	Н	ı	øJ	K
SN-8-4 (LRPCB)K	192	12.8	12.0	13	24	13.2	07	94	47	10	32
SN-8-6 (LRPCB)K	19,2	12,8	12,0	2,0 1,3	2,4	13,2	0,7	3,4	4,1	1,0	- U,Z

SN-8-4(LRPCB)K1, SN-8-6(LRPCB)K1 only mates with SN-8-4(PS), SN-8-6(PS) plugs.



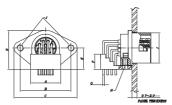


Product Number	Α	В	С	D	Е	F	ø G	Н	ı	ø J	K	
SN-8-4(LRPCB)K1	19,2	192	167	11 0	1.3	2.4	14.0	0.7	94	47	10	22
SN-8-6(LRPCB)K1		10,7	11,0	1,3	2,4	14,0	0,1	3,4	4,1	1,0		

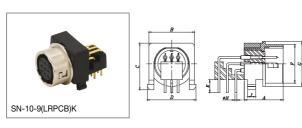
SN-8-4(LRPCB)K1, SN-8-6(LRPCB)K1 only mates with SN-8-4(PS), SN-8-6(PS) plugs.

■ SN Right Angle PCB Receptacle



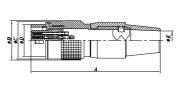


Product Number	Α	В	С	D	Е	F	øG	Н	øΙ	J
SN-10-12(LRPCB)	11,9	20	24.9	15,4	8,5	6	0,7	M2,0 ×0,4P	11,9	M2,6 ×0,45P



Product Number	Α	В	С	D	Е	F	G	øΗ	I
SN-10-9(LRPCB)K	12	14	14.3	15	3	11,9	13,9	0,7	2,5

■ SNA Adapter



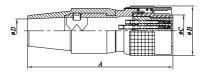


Product Number	Α	ø B	ø C	ø D	øΕ	Product Number	Α	øΒ	ø C	ø D	øΕ
SNA-8-4						SNA-10-2					
SNA-8-5	40,2	11,5	10,9	8,8 5,1	SNA-10-3		440				
SNA-8-6					SNA-10-4						
						SNA-10-9	48,0	14,9	13,9	11,9	7.0
						SNA-10-10					
						SNA-10-12					

Push-pull type SNH Female Plug

■ SNH Plug

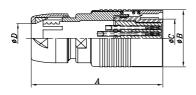




Product Number	Α	ø B	ø C	ø D	
SNH-8-4(P)					
SNH-8-5(P)	35	11,5	7	5	
SNH-8-6(P)					
SNH-10-2(P)			0.4		
SNH-10-3(P)					
SNH-10-4(P)	42	14.9		7	
SNH-10-9(P)	43	14,9	9.4	'	
SNH-10-10(P)					
SNH-10-12(P)					

■ SN1H Plug

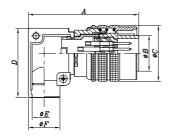




Product Number	Α	ø B	ø C	ø D
SN1H-8-4(P)				
SN1H-8-5(P)	28	11,0	9,0	5,2
SN1H-8-6(P)				
SN1H-10-2(P)				
SN1H-10-3(P)				
SN1H-10-4(P)	32	14.0	12.0	7.2
SN1H-10-9(P)	32	14,0	12,0	1,2
SN1H-10-10(P)				
SN1H-10-12(P)				

■ SNH Right Angle Plug

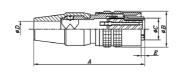




Product Number	Α	øΒ	ø C	D	øΕ	ø F
SNH-8-4(PL)						
SNH-8-5(PL)	25.9	7.0	11,5	14.6	5.0	6,6
SNH-8-6(PL)						
SNH-10-9(PL)						
SNH-10-10(PL)	29.0	9.4	14.9	18,2	6,3	8,3
SNH-10-12(PL)						

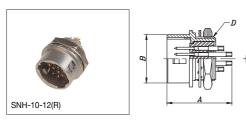
■ SNH Plug (Short plug housing)





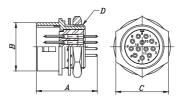
Product Number	Α	ø B	ø C	ø D	E
SNH-8-4(PS)	35.0	11.5	70	5.1	0.6
SNH-8-6(PS)	35,0	11,5	7.0	5,1	0,0

■ SNH Receptacle



Product Number	Α	øΒ	С	D	Product Number	Α	øΒ	С	D
SNH-8-4 (R)					SNH-10-2(R)				
SNH-8-5 (R)	14,2	8,8	10,0	M8×0,5P	SNH-10-3(R)				
SNH-8-6 (R)					SNH-10-4(R)	400			
					SNH-10-9(R)	16,2	11,9	13,0	M11×0,75P
					SNH-10-10(R)				
					SNH-10-12(R)				

■ SNH PCB Receptacle





Product Number	Α	øΒ	С	D	Product Number	Α	ø B	С	D		
SNH-8-4(RPCB)					SNH-10-2(RPCB)						
SNH-8-5(RPCB)	15	8,8	10	M8×0,5P	M8×0,5P	M8×0,5P	SNH-10-3(RPCB)				
SNH-8-6(RPCB)					SNH-10-4(RPCB)			13	144 0750		
					SNH-10-9(RPCB)	15	11.9		M11×0,75P		
					SNH-10-10(RPCB)						
					SNH-10-12(RPCB)						

■ SNH Right Angle PCB Receptacle (Any Type)



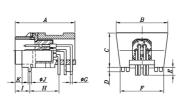




Product Number	Α	В	С	D	Е	F	ø G	Н	ı	øJ	K	
SNH-8-4(LRPCB)K	19.2	102	128	120	13	2.4	13.2	0.7	9 4	47	10	32
SNH-8-6(LRPCB)K		12,0	12,0	1,3	2,4	10,2	0,1	3,4	۱,۲	1,0	- U,Z	

SN-8-4(LRPCB)K1, SN-8-6(LRPCB)K1 only mates with SN-8-4(PS), SN-8-6(PS) plugs.

■ SNH Right Angle PCB Receptacle (Magic Type)

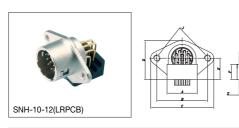




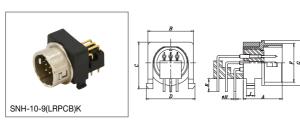
Product Number	Α	В	С	D	Е	F	ø G	Н	ı	ø J	K
SNH-8-4(LRPCB)K1	19,2	16.7	6,7 11,0	1,3	2,4	14,0	0.7	94	4,7 1	10	22
SNH-8-6(LRPCB)K1		10,1						3,4		1,0	2,2

SNH-8-4(LRPCB)K1, SNH-8-6(LRPCB)K1 only mates with SNH-8-4(PS), SNH-8-6(PS) plugs.

■ SNH Right Angle PCB Receptacle

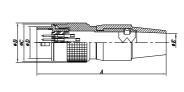


Product Number	Α	В	С	D	Е	F	ø G	Н	Ø l	J
SNH-10-12(LRPCB)	11,9	20	24,9	15.4	8,5	6	0.7	M2,0 ×0,4P	11,9	M2,6 ×0,45P



Product Number	Α	В	С	D	Е	F	G	øΗ	I
SNH-10-9(LRPCB)K	12	14	14,3	15	4	11,9	13,9	0.7	2,5

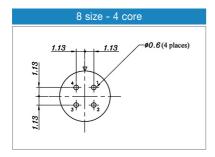
■ SNHA Adapter

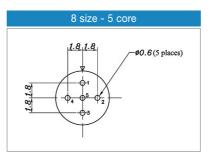


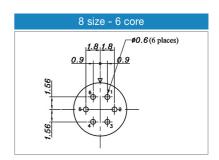


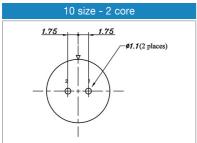
Product Number	Α	ø B	ø C	ø D	øΕ	Product Number	Α	øΒ	Ø C	ø D	øΕ							
SNHA-8-4						SNHA-10-2												
SNHA-8-5	40,2	11,5	10,9	8,8	5,1	SNHA-10-3												
SNHA-8-6													SNHA-10-4					
						SNHA-10-9	48.0	14.9	13,9	11,9	7.0							
						SNHA-10-10												
						SNHA-10-12												

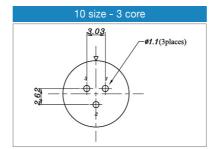
■ SN Receptacle PCB Hole Layout

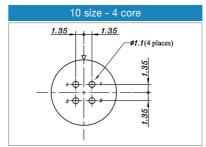


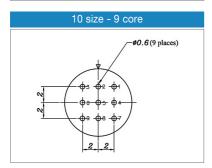


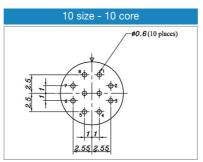


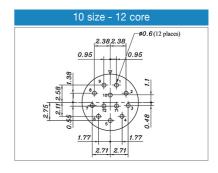




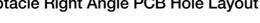


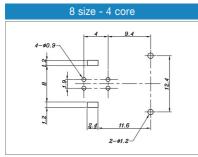


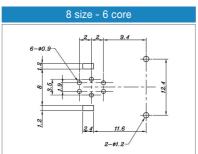


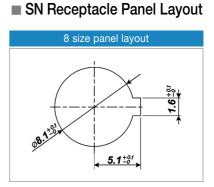


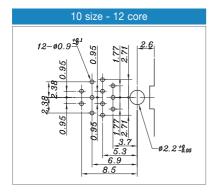
■ SN Receptacle Right Angle PCB Hole Layout

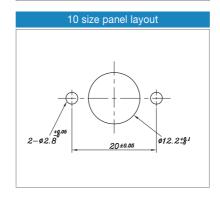


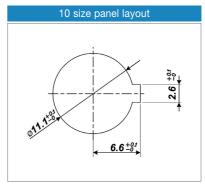












General Instruction / Information

- Diagram 1 shows a sample wiring for SN series.
- Soldering must be done quickly and carefully to prevent damage to insulator.
- Receptacles do not require additional instructions.
- Specification of Nut

Size	Nut Specification	Nut Tightening force
SN - 8	M8×0.5P	15~18(kgf ⋅ cm)
SN - 10	M11×0.75P	20~23(kgf · cm)

Wiring Sequence

- ① Select cable according to outer diameter and cross section, lower than 0.129mm²(AWG#26).
- ② Insert RUBBER BUSHING to cable.
- ③ Insert PLUG HOUSING to cable.
- 4 Strip cable per dimension given and loosen braid.
- ⑤ Secure PLUG BODY to jig for soldering.
- 6 Solder stripped cable to pin.
- 7) Fasten CRIMP using hand crimp tool (SA-HCT^①)
- ® Lock PLUG HOUSING and PLUG BODY using tightening force displayed on Table 1.
- (9) Tighten WRENCH BOLT using 0.3N force onto one of two embossed parts of crimp.
- (10) Cover RUBBER BUSHING onto PLUG HOUSING.

Diagram 1

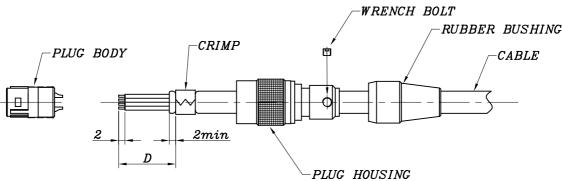


Table 1

unit : mm

Size	Spanner Jaw	D (Dimension)	Tightening Force	Notes
SN - 8	8	10	1,5N · m (15kgf · cm)	SA-HCT size Ø 5,5
SN - 10	10	16	2.0N · m (20kgf · cm)	SA-HCT size Ø 7,0

■ SA-HCT (Hand Crimp Tool)



Specially designed for Sam Woo's connector, the low-cost and efficient SA-HCT provides the best crimping results.

TOOL DIE HOLE SIZE

① See below for information on SA-HCT.