

SW Series Part Numbering



Features

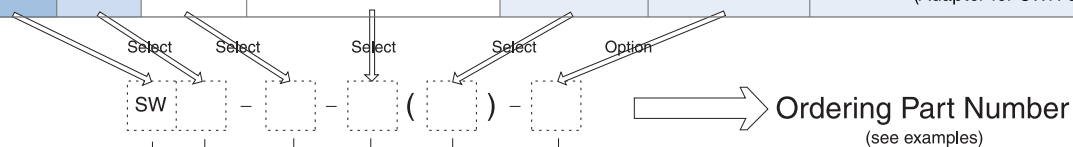
- Excellent performance at low cost
- Screw mounting assures solid connection
- Manufactured with precision

Applications

- Professional audio and video
- CCTV system
- Vision related testing equipment
- Portable wireless radio
- Measuring equipment
- Computers and peripherals
- Medical, and much more.

Part Numbering

Product Number		Size	Number of Contacts	Suffix	Optional Suffix	Notes
Series	Prefix				S	
SW		8 or 10	8 size : 4,5,6 10 size : 2,3,4,9,10,12	P	•	Main SW Series
				R / RPCB	•	
	H			P	•	SWH Series (SW with reverse contacts)
	A			R / RPCB	•	
					•	SWA Series (Adapter for SW series)
	HA				•	SWHA Series (Adapter for SWH series)



Examples

SW - 8 - 4 (P)
SW series - Size 8 Plug - 4 Male Contact (Plug shell)

SW - 10 - 12 (R) - S
SW series - Size 10 Receptacle - 12 Female Contact - Silver Plating Contact

SWA - 10 - 2
SW series - Size 10 Adapter - 2 Female Contact

SWHA - 8 - 6 - S
SWH series - Size 8 Adapter - 6 Male Contacts - Silver Plating Contact

Connector Series

SW
SWH - reverse contact
SWA - adapter for SN series
SWHA - adapter for SNH series

Size

8,10

No. of Contacts

8 Size : 4,5,6
10 Size : 2,3,4,9,10,12

Body Type

P : Plug
R : Receptacle (solder termination)
RPCB : Receptacle (PCB termination)
blank : Adapter

Optional

S : Silver Plating Contact

Major Performances / Contact Arrangements

Size / No. of Contacts		Size 8		
Performance		4	5	6
Withstanding Voltage (per min) ¹		AC 300V	AC 300V	AC 300V
Current		2A	2A	2A
Insulation Resistance (Minimum) ²		1,000M Ω	1,000M Ω	1,000M Ω
Contact Resistance (Maximum) ³		10m Ω	10m Ω	10m Ω
Solder Pot Inside Diameter		ø 0,7	ø 0,7	ø 0,7
Wire Gauge(Maximum)		AWG26	AWG26	AWG26
Contact Arrangement				

Size / No. of Contacts		Size 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							

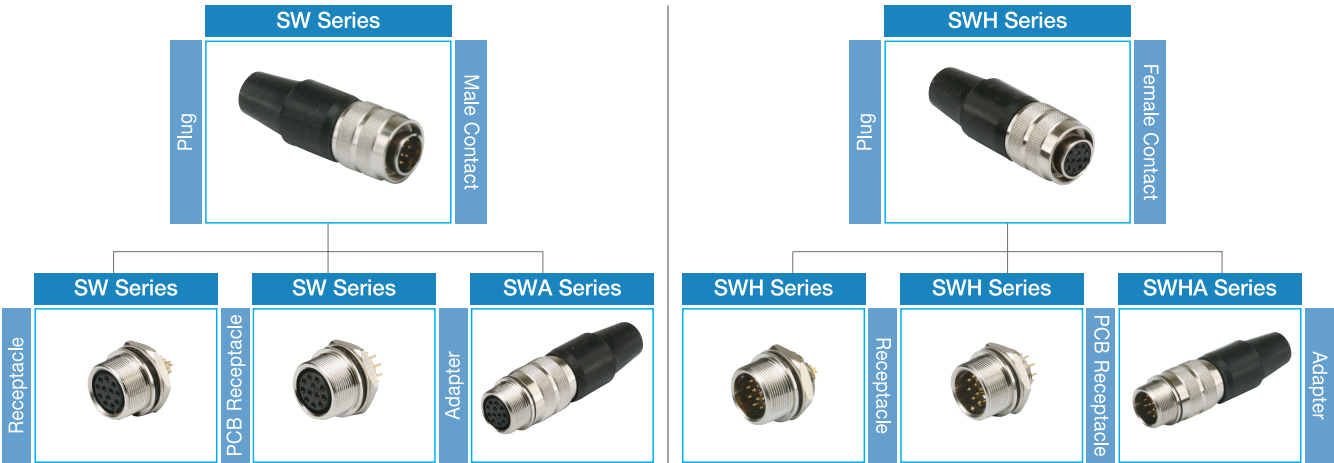
¹ Withstanding voltage is the tested voltage value in this table.
² Insulation resistance is measured at DC 100V.
³ Contact resistance is measured at DC 1A.
• Values are from tested items and may not apply to all connectors.
• Specifications subject to change without notice.
• Consult Sam Woo Electronics for the latest specifications.
⁴ Connector contact arrangement is from mating surface.

Contact Diameter
ø 0,55mm • 1,0mm

Material Used / Finish

		Material	Finish
Body		Brass	Ni Plating
Insulator		PA	Black
Contacts	Male	Brass	Gold Plating
	Female	Phosphor bronze	Gold Plating

SW Series Mini-map

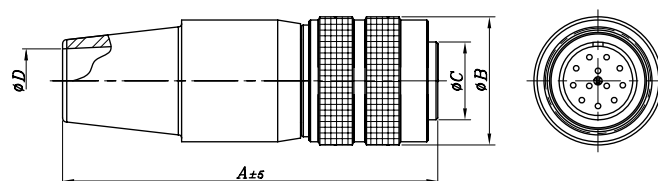


SW Series

SW Male Plug, Female Receptacle / Adapter



SW Plug



Product Number	A	ø B	ø C	ø D
SW-8-4 (P)	35	11	6,7	5,1
SW-8-5 (P)				
SW-8-6 (P)				

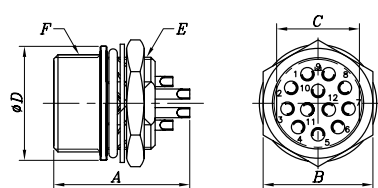
SW Series
Size
No. of Contacts

Product Number	A	ø B	ø C	ø D
SW-10-2 (P)	42	14	8,5	7
SW-10-3 (P)				
SW-10-4 (P)				
SW-10-9 (P)				
SW-10-10 (P)				
SW-10-12 (P)				

Silver contact

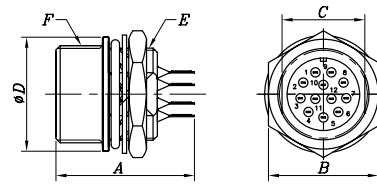
Include '-S' at end of Product Number.
EX) SW-8-4 (P)-S
SW-10-12 (P)-S

SW Solder Type Receptacle



Product Number	A	B	C	ø D	E	F
SW- 8- 4 (R)	14,5	10	7,5	10	M8×0,5P	M9×0,5P
SW- 8- 5 (R)						
SW- 8- 6 (R)						
SW-10- 2 (R)	15	13	9,8	13,5	M11×0,75P	M11,5×0,5P
SW-10- 3 (R)						
SW-10- 4 (R)						
SW-10- 9 (R)	16,5					
SW-10-10 (R)						
SW-10-12 (R)						

SW PCB Type Receptacle

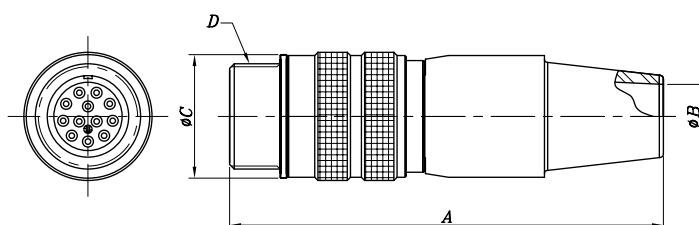


Product Number	A	B	C	ø D	E	F
SW- 8- 4 (RPCB)	15,7	10	7,5	10	M8×0,5P	M9×0,5P
SW- 8- 5 (RPCB)						
SW- 8- 6 (RPCB)						
SW-10- 9(RPCB)	15,7	13	9,8	13,5	M11×0,75P	M11,5×0,5P
SW-10-10(RPCB)						
SW-10-12(RPCB)						

Silver contact

Include '-S' at end of Product Number.
EX) SW-8-4 (RPCB)-S
SW-10-12 (R)-S

SW Adapter



Product Number	A	ø B	ø C	D
SWA-8-4	39,3	5,1	10	M9×0,5P
SWA-8-5				
SWA-8-6				

SWA Series
Size
No. of Contacts

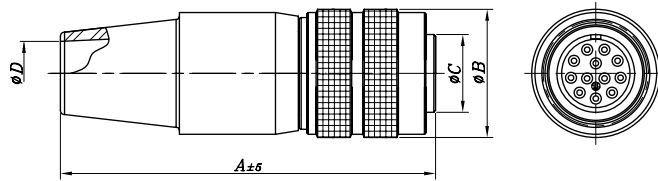
Product Number	A	ø B	ø C	D
SWA-10-2	47	7	13,5	M11,5×0,5P
SWA-10-3				
SWA-10-4				
SWA-10-9				
SWA-10-10				
SWA-10-12				



Silver contact

Include '-S' at end of Product Number.
EX) SWA-8-4-S
SWA-10-12-S

SWH Plug



SWH-10-12(P)

Silver Plating Contact
Include '-S' at end of Product Number.
EX) SWH-8-4 (P)-S
SWH-10-12 (P)-S

Product Number	A	φ B	φ C	φ D
SWH-8-4 (P)	35	11	6,7	5,1
SWH-8-5 (P)				
SWH-8-6 (P)				

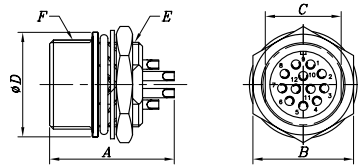
→ SWH Series
→ Size
→ No. of Contacts

Product Number	A	φ B	φ C	φ D
SWH-10- 2 (P)	42	14	8,5	7
SWH-10- 3 (P)				
SWH-10- 4 (P)				
SWH-10- 9 (P)				
SWH-10-10 (P)				
SWH-10-12 (P)				

SWH Solder Type Receptacle



SWH-10-12 (R)

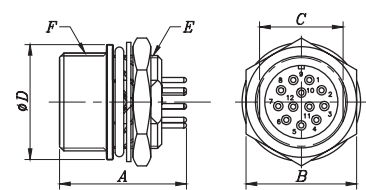


Product Number	A	B	C	φ D	E	F
SWH- 8- 4 (R)	14,2	10	7,5	10	M8 × 0,5P	M9 × 0,5P
SWH- 8- 5 (R)						
SWH- 8- 6 (R)						
SWH-10- 2 (R)	16,2	13	9,8	13,5	M11 × 0,75P	M11,5 × 0,5P
SWH-10- 3 (R)						
SWH-10- 4 (R)						
SWH-10- 9 (R)						
SWH-10-10 (R)						
SWH-10-12 (R)						

SWH PCB Type Receptacle



SWH-10-12 (RPCB)



Product Number	A	B	C	φ D	E	F
SWH- 8- 4 (RPCB)	15	10	7,5	10	M8 × 0,5P	M9 × 0,5P
SWH- 8- 5 (RPCB)						
SWH- 8- 6 (RPCB)						
SWH-10- 9(RPCB)	15	13	9,8	13,5	M11 × 0,75P	M11,5 × 0,5P
SWH-10-10(RPCB)						
SWH-10-12(RPCB)						

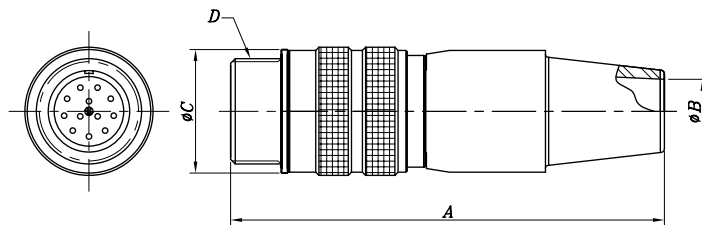
Silver Plating Contact

Include '-S' at end of Product Number.
EX) SWH-8-4 (RPCB)-S
SWH-10-12 (R)-S



SWHA-10-12

SWHA Adapter



Product Number	A	φ B	φ C	D
SWHA-8-4	39,3	5,1	10	M9 × 0,5P
SWHA-8-5				
SWHA-8-6				

→ SWHA Series
→ Size
→ No. of Contacts

Product Number	A	φ B	φ C	D
SWHA-10- 2	47	7	13,5	M11,5 × 0,5P
SWHA-10- 3				
SWHA-10- 4				
SWHA-10- 9				
SWHA-10-10				
SWHA-10-12				

SW Series Cable Assembly Instruction

General Instruction / Information

- Diagram 1 shows a sample wiring for SW 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
SW - 8	M8 × 0,5P	15~18(kgf · cm)
SW - 10	M11 × 0,75P	20~23(kgf · cm)

Wiring Sequence

- Select cable according to outer diameter and cross section, lower than 0,129mm²(AWG#26).
- Insert RUBBER BUSHING to cable.
- Insert PLUG HOUSING to cable.
- Strip cable per dimension given and loosen braid.
- Secure PLUG BODY to jig for soldering.
- Solder stripped cable to pin.
- Fasten CRIMP using hand crimp tool (SA-HCT^①)
- Lock PLUG HOUSING and PLUG BODY using tightening force displayed on Table 1.
- Tighten WRENCH BOLT using 0,3N force onto one of two embossed parts of crimp.
- Cover RUBBER BUSHING onto PLUG HOUSING.

^① See below for information on SA-HCT.

Diagram 1

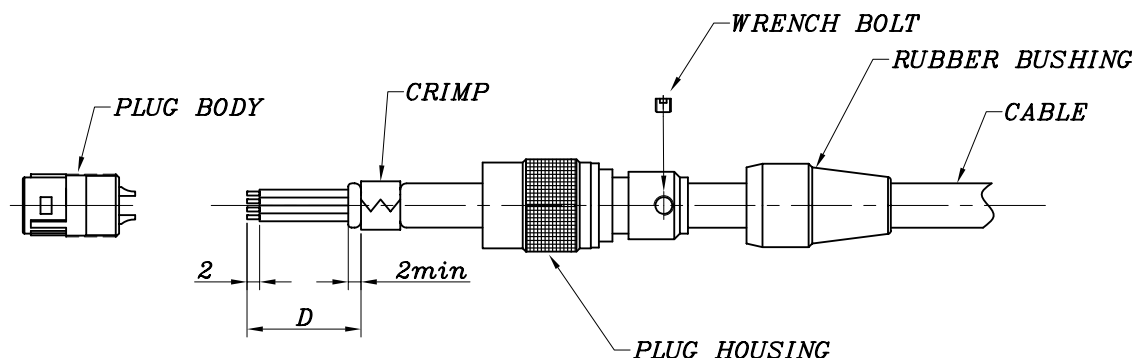


Table 1

unit : mm

Size	Spanner Jaw	D (Dimension)	Tightening Force	Notes
SW - 8	8	10	1,5N · m (15kgf · cm)	SA-HCT size ø 5,5
SW - 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.

