

SU Series Part Numbering



Features

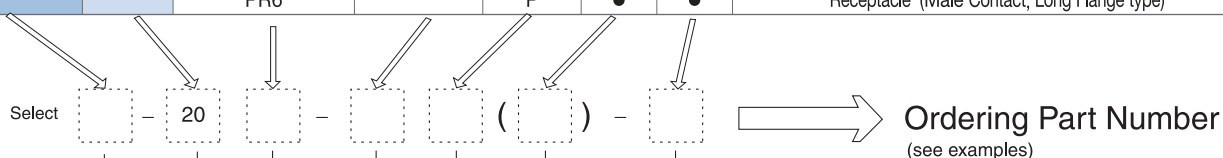
- Safe connection / Easy mounting
- Antenna Interface Standards Group(AISG) Specification
- Electromagnetic Protection
- Protection rating of IP67
- UL Recognized 
- IEC 61076-2-106 and AISG Specification

Applications

- Electronic Precision Equipment
- Control Engineering
- Automation
- Medical

Part Numbering

Series	Size	Body Type	No. of Contacts	Contact Type	Option		Notes
					PCB	Potting	
SU	20	SP	3,4,5,6 8,A5,12,14	P			Plug (Male Contact)
		P		S			Plug (Female Contact)
		SBR		S	●		Receptacle (Female Contact)
		SBR1		S	●	●	Receptacle (Female Contact)
		BR		P	●	●	Receptacle (Male Contact)
		SRB		S	●	●	Receptacle (Female Contact, Rear mount)
		SPR		S	●	●	Receptacle (Female Contact, Flange type)
		SPR2					
		SPR5					
		PR		P	●	●	Receptacle (Male Contact, Flange type)
		PR3					
		PR6		P	●	●	Receptacle (Male Contact, Long Flange type)



Examples

SU - 20SP - 3P
SU series - Size 20 Plug - 3 Male Contact

SU - 20P - 8S
SU series - Size 20 Plug - 8 Female Contact

SU - 20SBR - 12S
SU series - Size 20 Receptacle - 12 Female Contact

SU - 20BR - 8P (PCB)
SU series - Size 20 Receptacle - 8 PCB termination Contact

Connector Series

SU 20 Series(IP67 type)

Body Type

SP : Plug
P : Plug
SBR : Receptacle
SBR1 : Receptacle
BR : Receptacle
SRB : Receptacle, Rear mount
SPR : Receptacle, Flange type
SPR2 : Receptacle, Flange type
SPR5 : Receptacle, Flange type
PR : Receptacle, Flange type
PR3 : Receptacle, Long Flange type
PR6 : Receptacle, Long Flange type
BRC : Receptacle cap (accessory)
SBRC : Receptacle cap (accessory)

No. of Contacts

3,4,5,6,8,A5,12,14

Contact Type

P : Male
S : Female
None : Receptacle cap

Contact Option(for receptacle)

PCB : PCB contact termination

Potting Option

1 : Silicon
2 : Epoxy

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

■ Major Performance / Contact Arrangements

Size / No. of Contacts Performance	Standard	Size 20							
		3	4	5	6	8	A5	12	14
Contact Arrangement									
	IEC 61076-2-106	○	○	○	○	○		○	○
	IEC 60130-9	○	○		○	○			
Rated Voltage	IEC 60664-1	300V		300V		100V		150V	
	IEC 61076-2-106	100V		63V		32V		32V	
	UL 1977	60V							
Rated Current(40℃)	IEC 60512-5-2	5A						3A	
Rated Impulse Withstand Voltage	IEC 61076-2-106	840V				500V			
	IEC 60664-1	1500V				500V		1200V	
Insulation Resistance	IEC 60512, Test 3a	≥10 ⁸ Ω							
Contact Resistance	IEC 60512, Test 2a	≤5m Ω							
Wire Gauge(Maximum)		0,75 _{mm} ² (AWG 20)						0,25 _{mm} ² (AWG 24)	
Cable Diameter		ø 4 ~ ø 8							
Temperature Range		- 40℃ ~ +85℃							
IP Protection Rating		IP67 / IP68							

■ Material Used / Finish

		Material	Finish
Body		Zinc Alloy, Brass Aluminum	Ni Plating
Insulator		PA	Black
Contacts	Male	Brass	Gold Plating
	Female	Phosphor bronze	Gold Plating

■ SU Series Mini-map

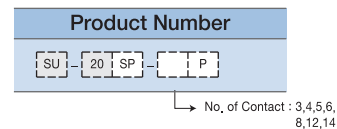
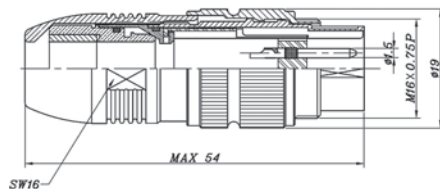


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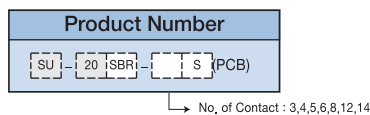
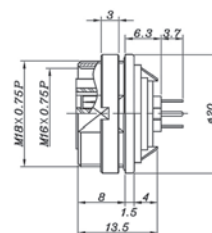
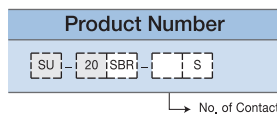
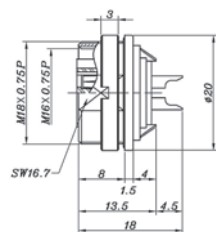


SU Series Plug, Receptacle(Solder / PCB type)

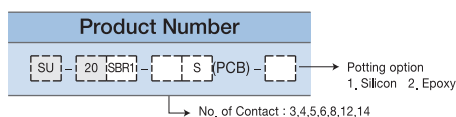
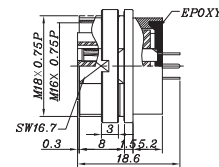
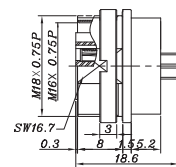
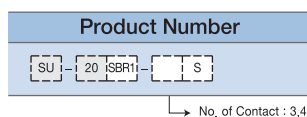
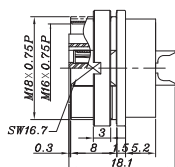
■ SU-20SP Series



■ SU-20SBR Series | Bulkhead

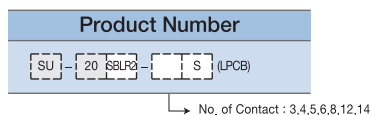
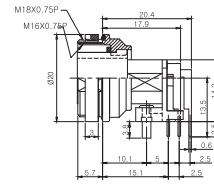
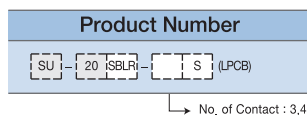
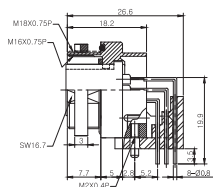


■ SU-20SBR1 Series | Bulkhead, Potting



With Epoxy

■ SU-20SBLR Series | Bulkhead, Right Angle PCB Type

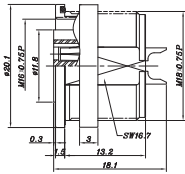


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■ SU-20SRB Series | Rear mount



SU-20SRB-8S



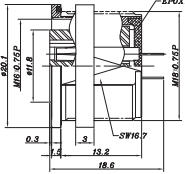
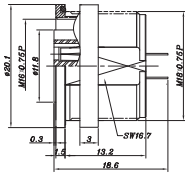
Product Number

SU - 20 SRB - S

No. of Contact : 3,4,5,6,8,12,14



SU-20SRB-8S(PCB)



With Epoxy

Product Number

SU - 20 SRB - S (PCB) -

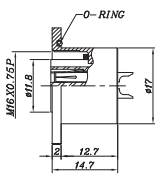
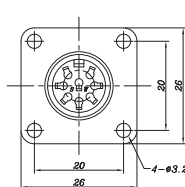
Potting option
1, Silicon 2, Epoxy

No. of Contact : 3,4,5,6,8,12,14

■ SU-20SPR Series | Flange, Potting



SU-20SPR-8S



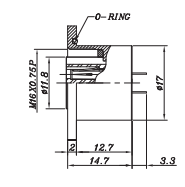
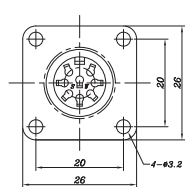
Product Number

SU - 20 SPR - S

No. of Contact : 3,4,5,6,8,12,14



SU-20SPR-8S(PCB)



With Epoxy

Product Number

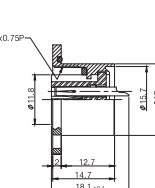
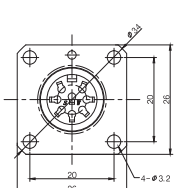
SU - 20 SPR - S (PCB) -

Potting option
1, Silicon 2, Epoxy

No. of Contact : 3,4,5,6,8,12,14



SU-20SPR2-8S



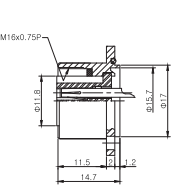
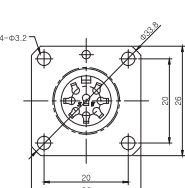
Product Number

SU - 20 SPR2 - S

No. of Contact : 3,4,5,6,8,12,14



SU-20SPR5-8S



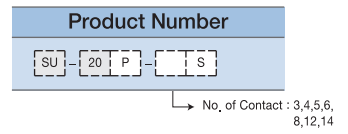
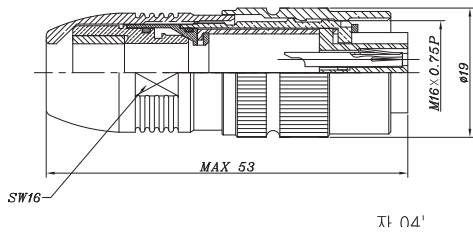
Product Number

SU - 20 SPR5 - S

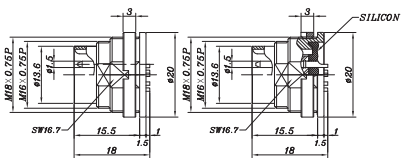
No. of Contact : 3,4,5,6,8,12,14

Plug, Receptacle(Solder / PCB type)

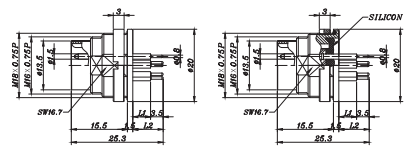
- **SU-20P Series**



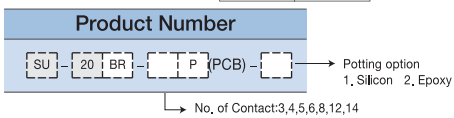
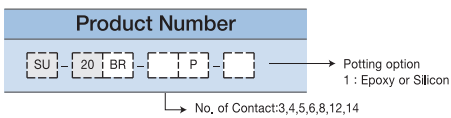
■ SU-20BR Series | Bulkhead, Potting



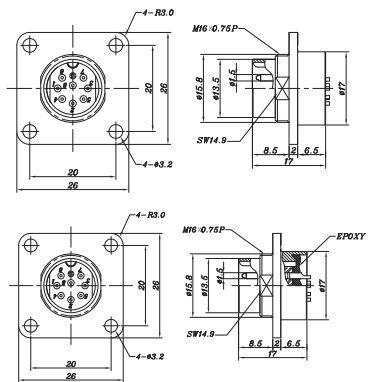
With Silicon



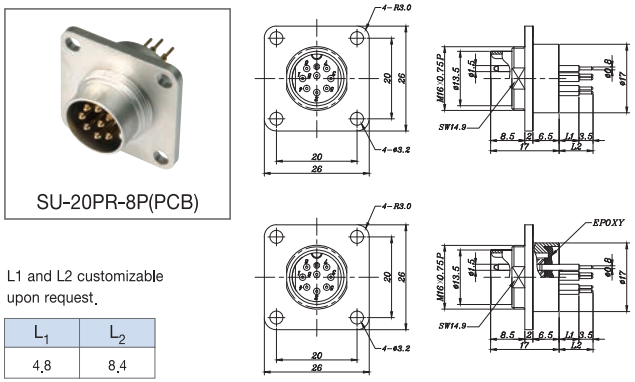
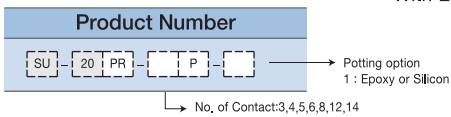
With Silicon



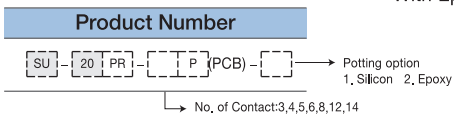
■ SU-20PR Series | Flange, Potting



With Epoxy



L1 and L2 customizable upon request.

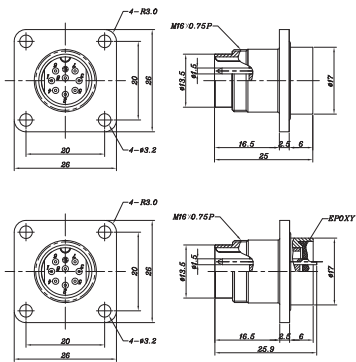


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■ SU-20PR3 Series | Flange, Potting



SU-20PR3-8P



With Epoxy

Product Number

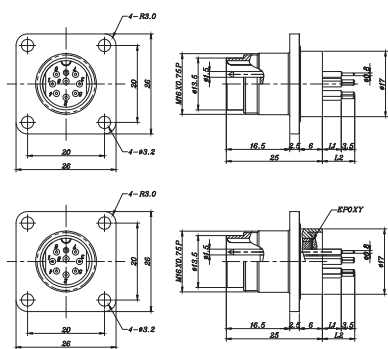
SU-20PR3-P

→ Potting option
1, Silicon 2, Epoxy

→ No. of Contact:3,4,5,6,8,12,14



SU-20PR3-8P(PCB)



L1 and L2 customizable upon request.

L ₁	L ₂
4,8	8,4

With Epoxy

Product Number

SU-20PR3-P(PCB)

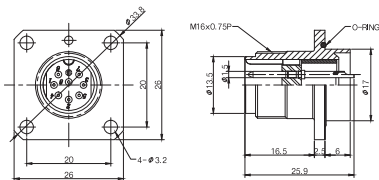
→ Potting option
1, Silicon 2, Epoxy

→ No. of Contact:3,4,5,6,8,12,14

■ SU-20PR6 Series



SU-20PR6-8P



Product Number

SU-20PR6-P

→ No. of Contact:3,4,5,6,8,12,14

SU Series Cable Assembly for Plug



Features

- AISG 1.1/2.0 Protocol
- Protection rating of IP 67/IP68
- Available in UL 20549
- Female to Female, Male to Male, Female to Male
- Available in 1m to 100 m
- RoHS Compliant
- PVC Free
- IEC 61076-2-106 and AISG Specification

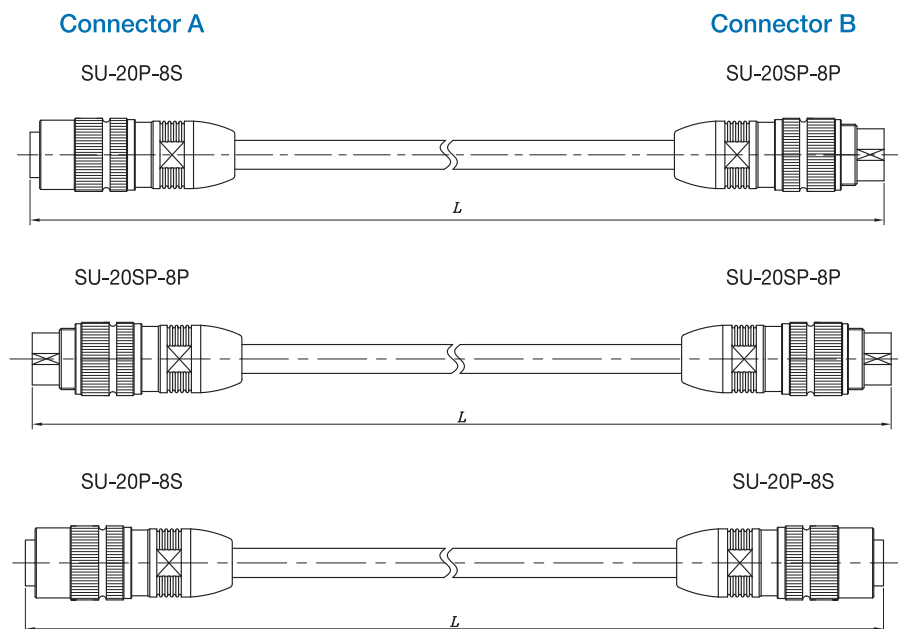
Applications

- Telecommunication
- RET Control Cable
- Adapter Cable
- General Industrial

■ Plug Cable Assembly

Connector A		Connector B		Cable Length, L(m)	Product Number
SU-20SP-8P	Male contact	SU-20P-8S	Female contact	1m ~ 100m	SW - 4509 - ***
SU-20SP-8P	Male contact	SU-20SP-8P	Male contact	1m ~ 100m	SW - 4510 - ***
SU-20P-8S	Female contact	SU-20P-8S	Female contact	1m ~ 100m	SW - 4994 - ***

* The last three digits of product number indicates cable length, Cable length can be customized,



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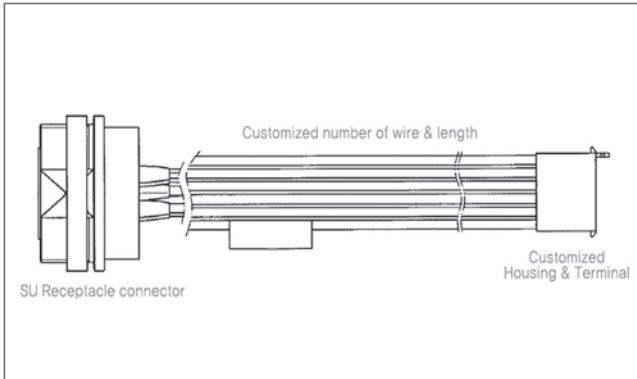
Features

- IP 67/IP68 with Epoxy
- UL1569, UL1015, UL 1431
- Plastic/Metal Caps Available

Applications

- CCU (Central Control Unit)
- RCU (Remote Control Unit)
- Junction Box
- Lightning Protection Unit
- Actuator

Part Numbering



Drawing Number
Optional Suffix (Omissible)
1,2,3
To indicate modification of original
Cable Length : 3 Digits
Unit Plug : m
Recep : cm
Ex) Using 3m Cable for Plug : 003
Using 30cm Cable for Recep : 030

Cable Assembly for Receptacle



Female Contact Receptacle Cable Assembly

Type	Construction
A	Female Contact Receptacle + Wire + Housing & Terminal
B	Female Contact Flange Receptacle + Wire + Housing & Terminal
C	Female Contact Flange Receptacle + Wire(Short) + Housing & Terminal

※ Design and Customization Service Available



Male Contact Receptacle Cable Assembly

Type	Construction
D	Male Contact Receptacle + Wire + Housing & Terminal
E	Male Contact Receptacle + Wire (Short) + Housing & Terminal

※ Design and Customization Service Available

■ Protecting Caps for SU series



SU Female Contact type Receptacle

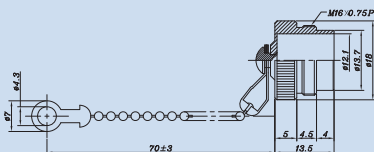


SU Male Contact type Receptacle

SU-20SBRC, SU-20SBRC1



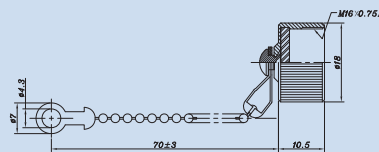
- SU-20SBRC : 70mm
- SU-20SBRC1 : Long chain type (120mm)



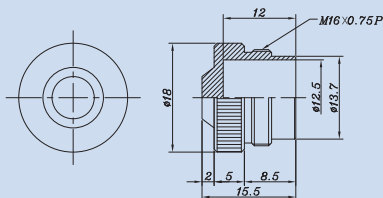
SU-20BRC, SU-20BRC1



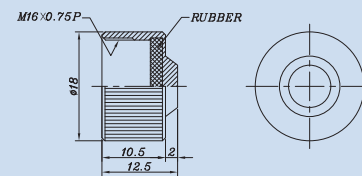
- SU-20BRC : 70mm
- SU-20BRC1 : Long chain type (120mm)



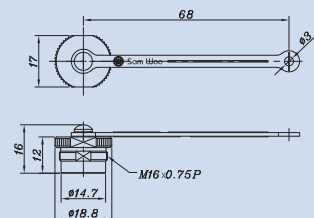
SU-20SBRC2



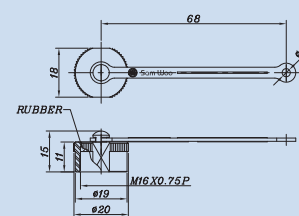
SU-20BRC2



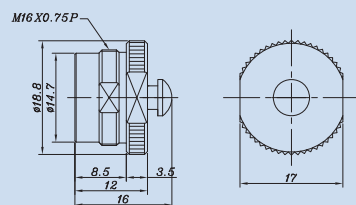
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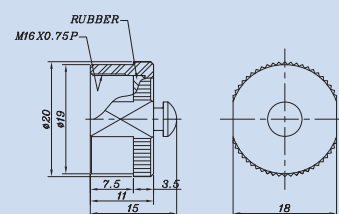
SU-20BRC4



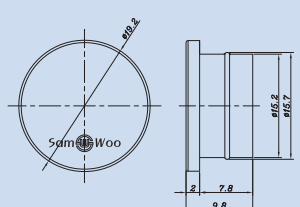
SU-20SBRC5



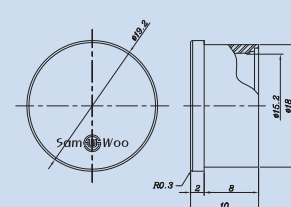
SU-20BRC5



SU-20SBR-DUST CAP

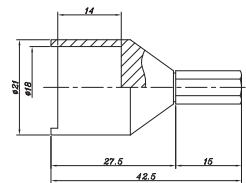
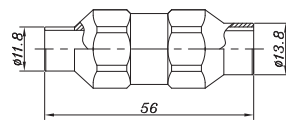
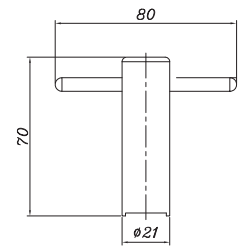
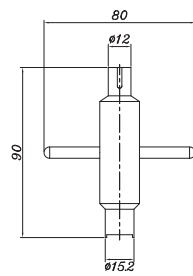


SU-20BR-DUST CAP

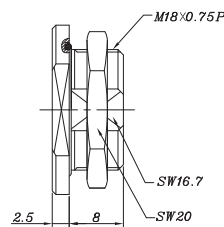
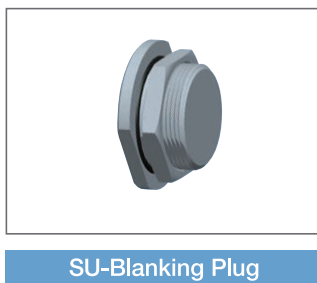


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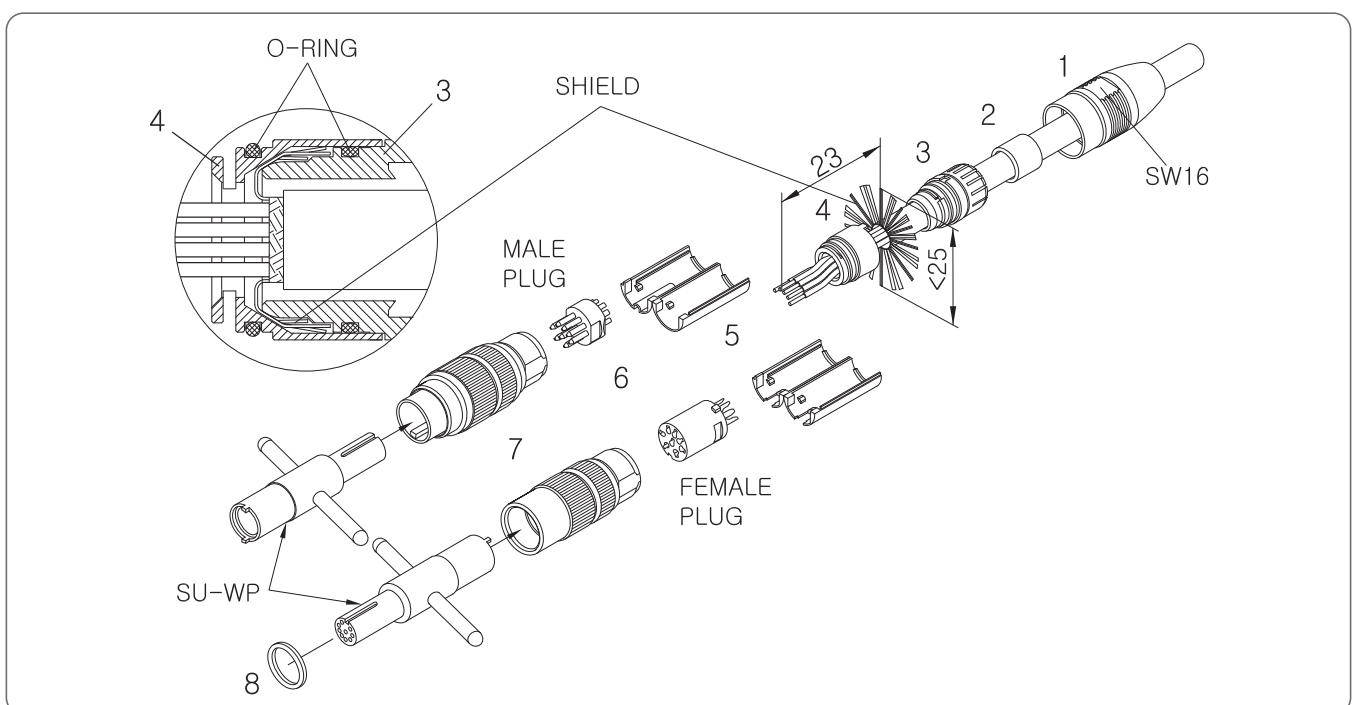
■ Tool for SU series



■ Below should go under Accessories

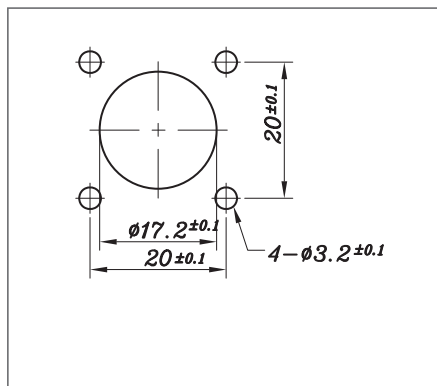
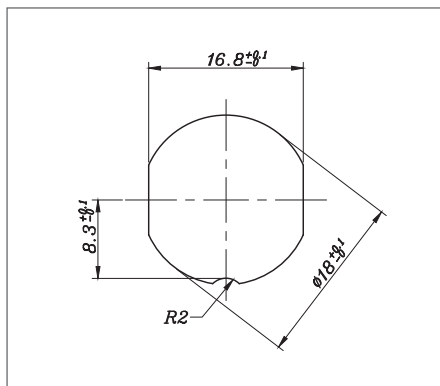


■ SU Cable Assembly Instruction



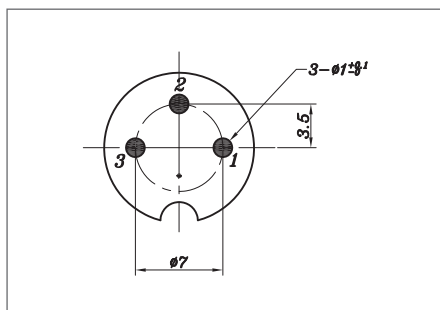
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■ Panel Layout

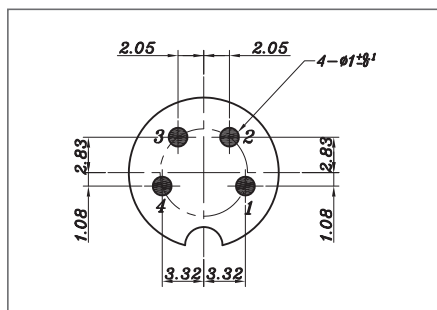


■ PCB Layout

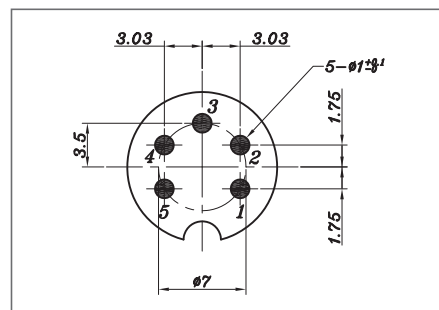
20 Size - 3 Core



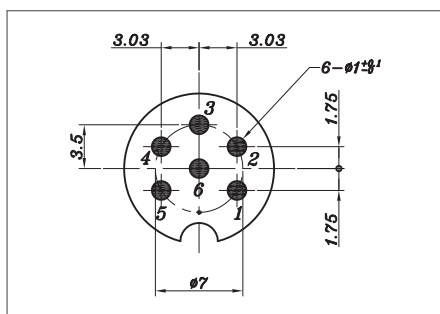
20 Size - 4 Core



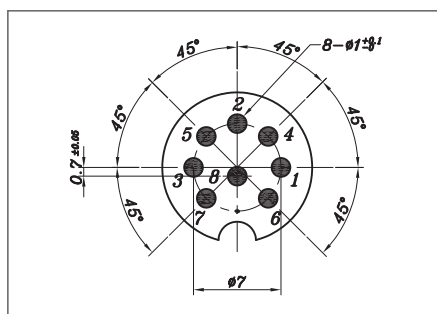
20 Size - 5 Core



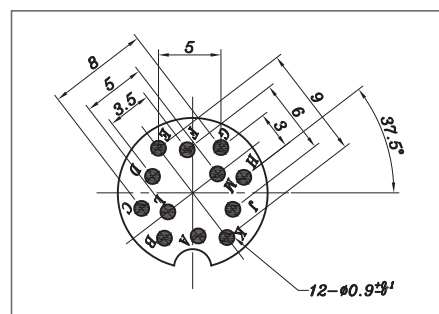
20 Size - 6 Core



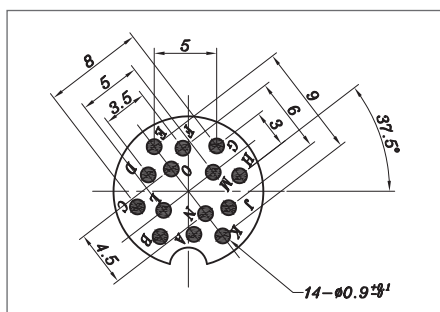
20 Size - 8 Core



20 Size - 12 Core



20 Size - 14 Core



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





Features

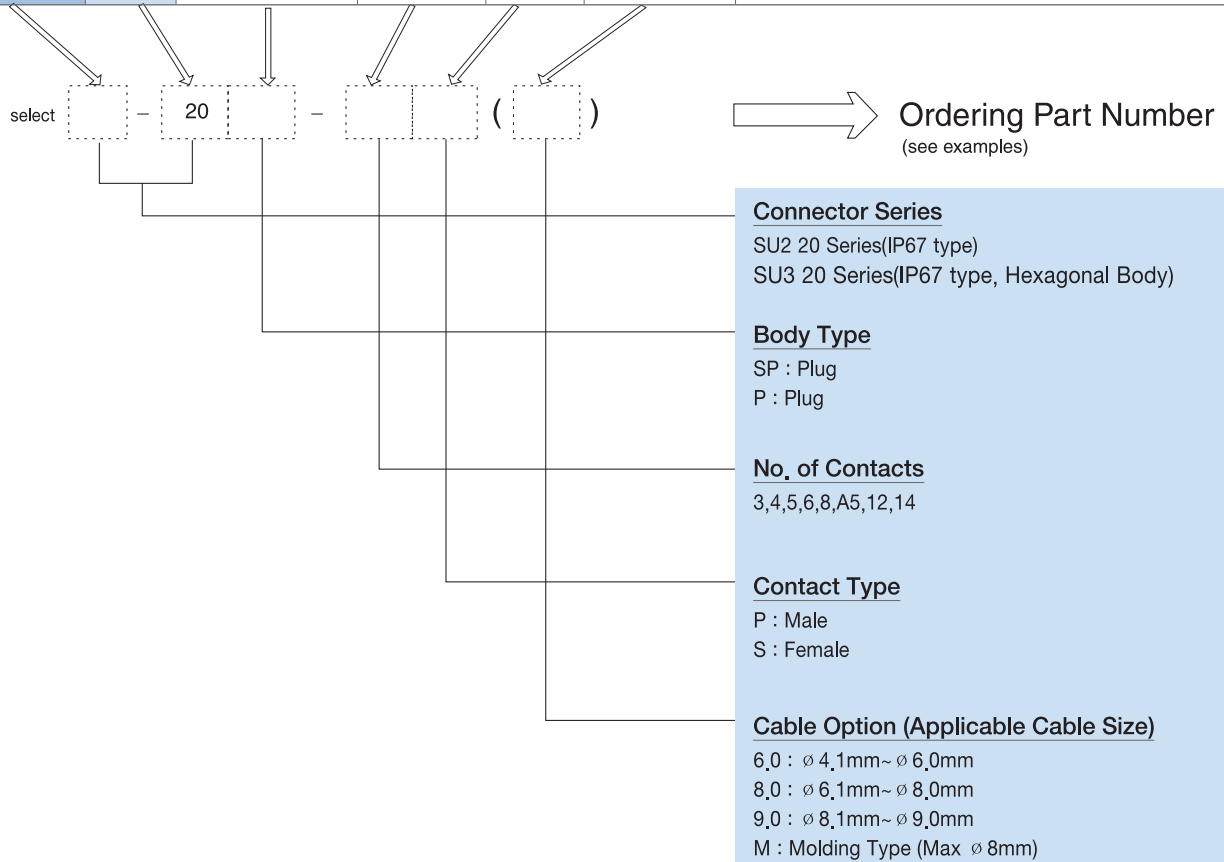
- AISG 1,1/2,0 Protocol Standard
- Protection rating of IP67
- IEC 61076-2-106 and AISG Specification
- RoHS Compliant  
- UL Recognized
- Cost Effective
- Safe Connection / Easy Mounting

Applications

- Telecommunication
- Smart Bias Tee
- Lightning Protection Unit
- RCU (Remote Control Unit)
- General Industrial
- CCU (Central Control Unit)
- Junction Box
- RET Control Cable
- Power Signal Splitter

Part Numbering

Series	Size	Body Type	No. of Contacts	Contact Type	Cable Option	Notes
SU2	20	SP	3,4,5,6	P	6,0 / 8,0 / 9,0	Plug (Male Contact)
SU3		P	8,12,14	S	/ M	Plug (Female Contact)



Examples

SU2 - 20SP - 5P - 6,0
 SU2 Series - Size 20 Plug - 5 Male Contact - Cable Option 6,0

SU2 - 20P - 8S - 8,0
 SU2 Series - Size 20 Plug - 8 Female Contact - Cable Option 8,0

SU3 - 20SP - 8P - 9,0
 SU3 Series - Size 20 Plug - 8 Male Contact - Cable Option 9,0

■ Major Performance / Contact Arrangements

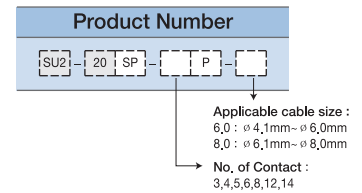
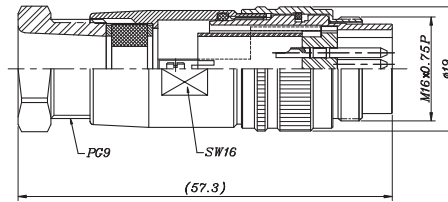
Size / No. of Contacts	Standard	Size 20							
Performance		3	4	5	6	8	A5	12	14
Contact Arrangement									
	IEC 61076-2-106	○	○	○	○	○		○	○
	IEC 60130-9	○	○		○	○			
Rated Voltage	IEC 60664-1	300V		300V		100V		150V	
	IEC 61076-2-106	100V		63V		32V		32V	
	UL 1977	60V							
Rated Current(40℃)	IEC 60512-5-2	5A						3A	
Rated Impulse Withstand Voltage	IEC 61076-2-106	840V				500V			
	IEC 60664-1	1500V				500V		1200V	
Insulation Resistance	IEC 60512, Test 3a	≥10 ⁸ Ω							
Contact Resistance	IEC 60512, Test 2a	≤5m Ω							
Wire Gauge(Maximum)		0,75 _{mm} ² (AWG 20)						0,25 _{mm} ² (AWG 24)	
Cable Diameter		ø 4 ~ ø 9							
Temperature Range		- 40℃ ~ +85℃							
IP Protection Rating		IP67 / IP68							

■ Material Used / Finish

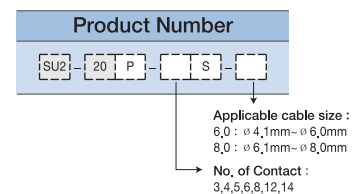
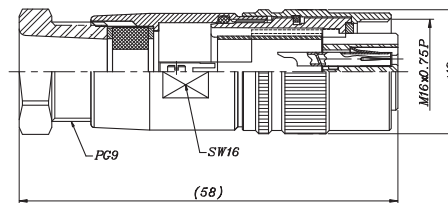
		Material	Finish
Body		Zinc Alloy, Brass	Ni Plating
Insulator		PA	Black
Contacts	Male	Brass	Gold Plating
	Female	Phosphor Bronze	Gold Plating

SU2 / SU3 Series Plug(Male/ Female Contact)

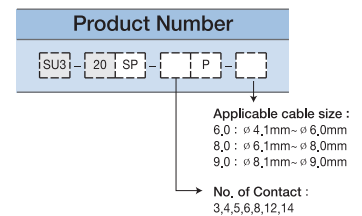
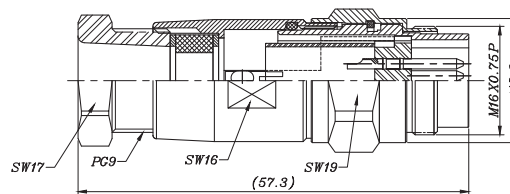
■ SU2-20SP Series



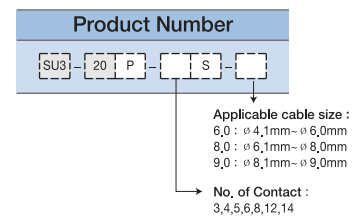
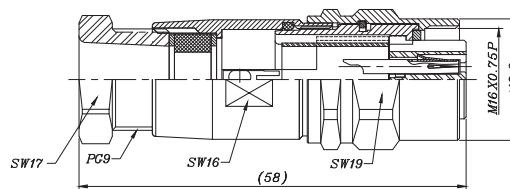
■ SU2-20P Series



■ SU3-20SP Series



■ SU3-20P Series



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



Features

- AISG 1.1/2.0 Protocol
 - DIN 45326 Standard
 - Available in UL20549
 - Female to Female, Male to Male, Female to Male
 - Available in 1m to 100m
 - RoHS Compliant
- IP 67/IP 68 Protection
 - PVC Free

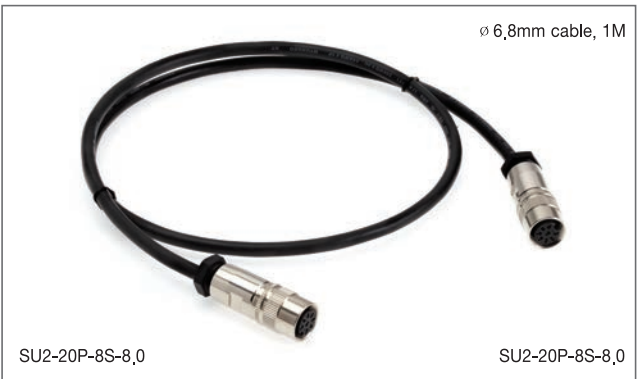
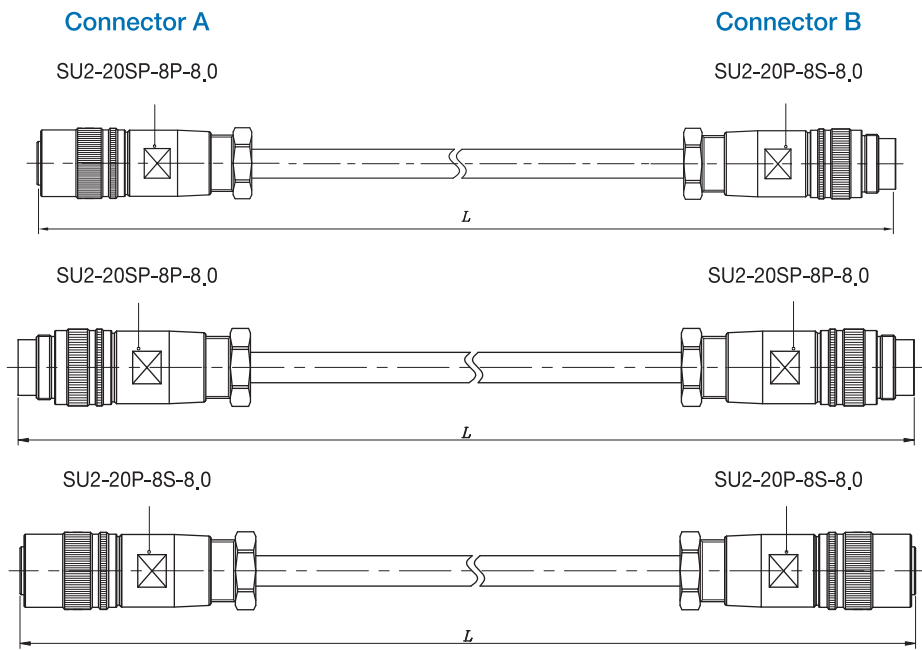
Applications

- Telecommunications
- RET Control Cable
- Adapter Cable
- General Industrial

■ Part Numbering

Connector A		Connector B		Cable Length, L(m)	Product Number
SU2-20SP-8P-8,0	Male contact	SU2-20P-8S-8,0	Female contact	1m ~ 100m	SW - 5266 - ***
SU2-20SP-8P-8,0	Male contact	SU2-20SP-8P-8,0	Male contact	1m ~ 100m	SW - 5505 - ***
SU2-20P-8S-8,0	Female contact	SU2-20P-8S-8,0	Female contact	1m ~ 100m	SW - 5506 - ***

* The last three digits of product number indicates cable length, Cable length can be customized,



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■ SU2, SU3 Cable Assembly Instruction

SU2, SU3 Series

