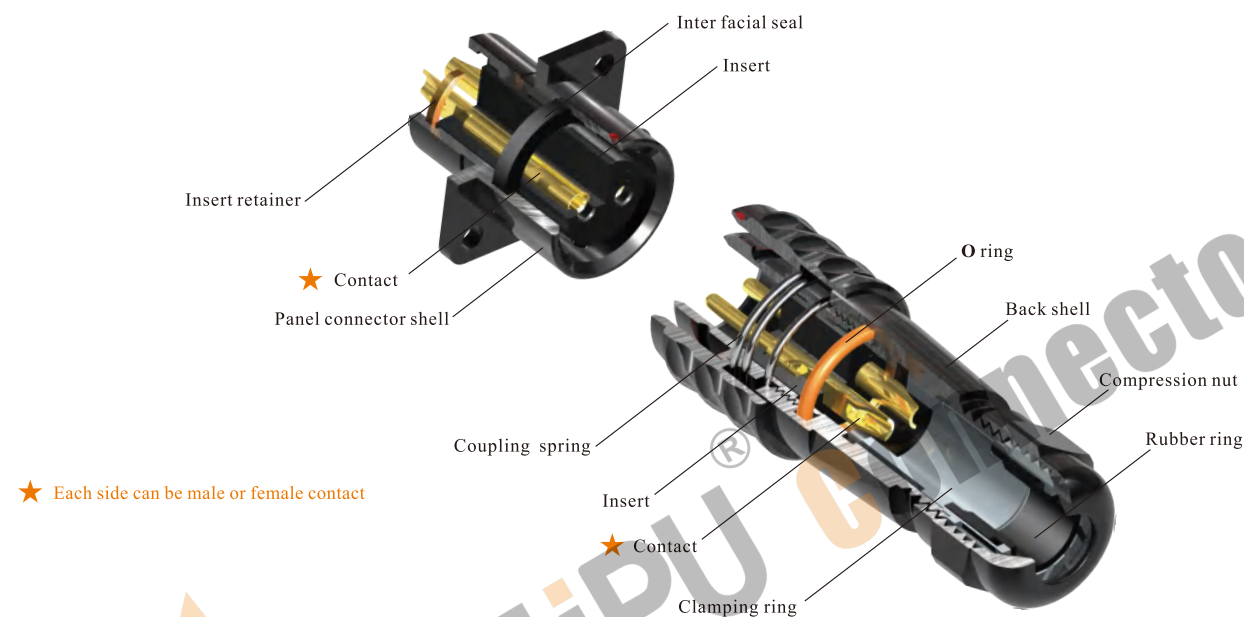


IP67



● Internal Structure



Material and spec

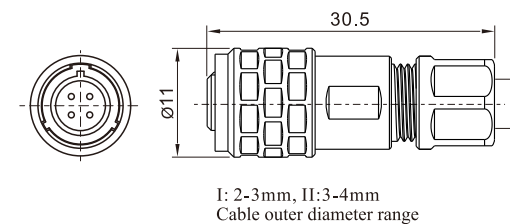
Coupling	Push-pull		
Shell material	Anodized aluminium		
Insert material	PPS, max temperature 260 °C Data: PBT, PVC		
Contact material	Brass with gold plating		
Termination	Solder: SA6, SA8, SA10, SA12, SA16, SA20, SA24, SA28 Crimp: SA16, SA20, SA24, SA28 Screw: SA20, SA24, SA28		
Cable outer diameter range	SA6: I: 2-3mm, II: 3-4mm SA8: I: 3-4mm, II: 4-5mm SA10: I: 3-4mm, II: 4-6.5mm	SA12: I: 4-6.5mm, II: 5-8mm SA16: I: 5-8mm, II: 8-12mm SA20: I: 5-9mm, II: 8-12mm	SA24: 10-14mm SA28: I: 9-13mm, II: 13-16mm
IP rating	IP67 (mated)		
Mating cycle	500 USB: 1000		
Working temperature range	-40°C ~ +85°C; Data : -20°C ~ +70°C		
Insulation resistance	2000MΩ		
Transmission Speed	Cat 5: 100Mbps Cat 6: 100-1000Mbps		

SA6 Series

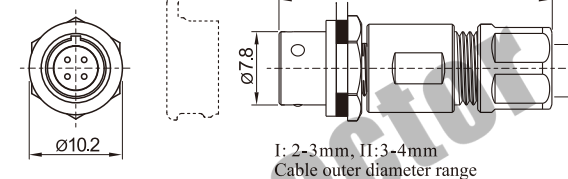
SA
6Cable connector
Mate with SA611, SA612,
SA615

SA610 / P SA610 / S

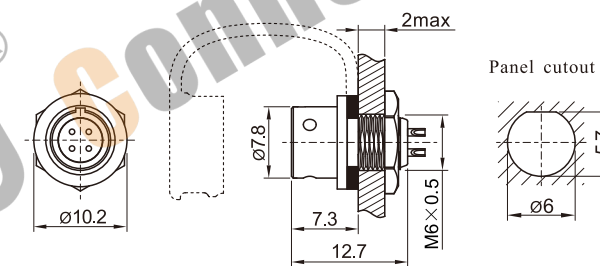
Male contact

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)
Cable outer diameter range
I: 2-3mm, II: 3-4mm
Number of contact
Female contactIn-line cable connector
Mate with SA610

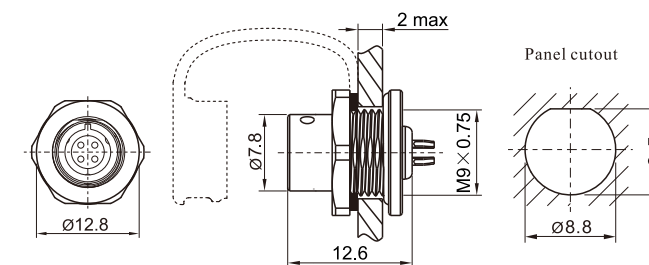
SA611 / P SA611 / S

Rear-nut mount
Mate with SA610

SA612 / P SA612 / S

Front-nut mount
Mate with SA610

SA615 / P SA615 / S



Solder contact spec

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	3	3	3	3
Contact diameter(mm)	Ø0.6×2	Ø0.6×3	Ø0.6×4	Ø0.6×5
Rated voltage (AC.V)	30	30	30	30
Test voltage(AC.V) 1 min	500	500	500	500
Contact resistance(mΩ)	10	10	10	10
Wire size(mm²/AWG)	≤0.5/20	≤0.5/20	≤0.5/20	≤0.5/20

SA8 Series

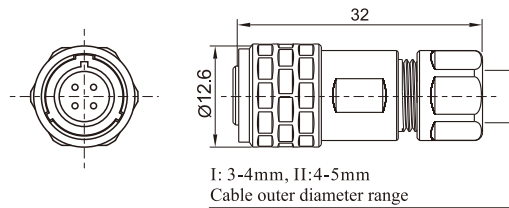
SA
8

Cable connector
Mate with SA811, SA812,
SA815

SA810 / P — SA810 / S

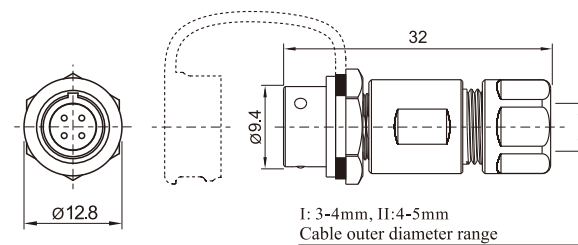
Male contact

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)
Cable outer diameter range
I: 3-4mm, II: 4-5mm
Number of contact
Female contact



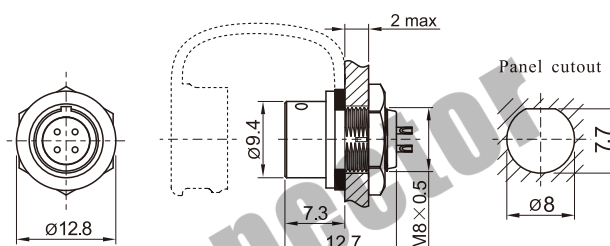
In-line cable connector
Mate with SA810

SA811 / P — SA811 / S



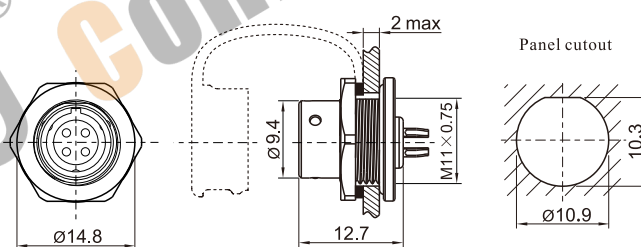
Rear-nut mount
Mate with SA810

SA812 / P — SA812 / S



Front-nut mount
Mate with SA810

SA815 / P — SA815 / S



Solder contact spec

Number of contact	2	3	4	6	8
Male contact face view					
Rated current (A)	5	5	3	3	3
Contact diameter(mm)	Ø1X2	Ø1X3	Ø0.6X4	Ø0.6X6	Ø0.6X8
Rated voltage (AC.V)	125	125	30	30	30
Test voltage(AC.V) 1 min	1000	1000	500	500	500
Contact resistance(mΩ)	5	5	10	10	10
Wire size(mm²/AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20	≤0.5/20

SA10 Series

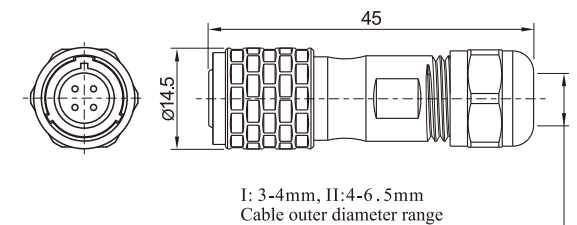
SA
10

Cable connector
Mate with SA1011, SA1012,
SA1015

SA1010 / P — SA1010 / S

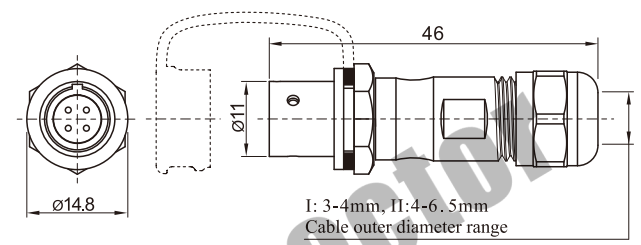
Male contact

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)
Cable outer diameter range
I: 3-4mm, II: 4-6.5mm
Number of contact
Female contact



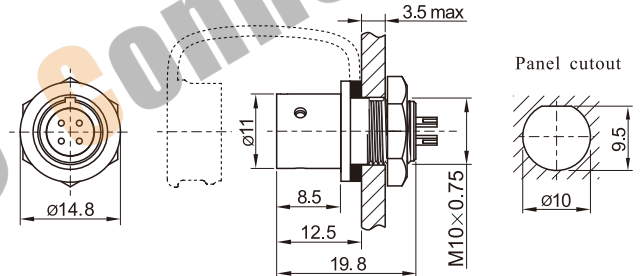
In-line cable connector
Mate with SA1010

SA1011 / P — SA1011 / S



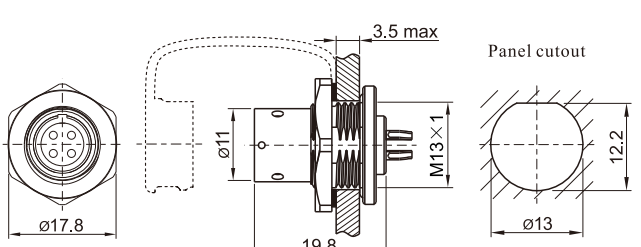
Rear-nut mount
Mate with SA1010

SA1012 / P — SA1012 / S



Front-nut mount
Mate with SA1010

SA1015 / P — SA1015 / S



Solder contact spec

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	Ø1X2	Ø1X3	Ø0.7X4	Ø0.7X5
Rated voltage (AC.V)	180	180	125	125
Test voltage(AC.V) 1 min	1000	1000	1000	1000
Contact resistance(mΩ)	5	5	10	10
Wire size(mm²/AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

SA12 Series

SA
12

Cable connector
Mate with SA1211, SA1212
SA1213, SA1215

SA1210/P — SA1210/S —
Male contact
Female contact
Number of contact
Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)
Cable outer diameter
I : 4-6.5mm, II : 5-8mm

SA1211/P — SA1211/S —
In-line cable connector
Mate with SA1210

SA1212/P — SA1212/S —
Rear-nut mount
Mate with SA1210
Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)
Number of contact

SA1213/P — SA1213/S —
Square flange
Mate with SA1210

SA1215/P — SA1215/S —
Front-nut mount
Mate with SA1210

Dimensions: 46, 17.5, 13.8, 18, 11.2, 20, 11.5, 12, 13, 18, 13, 20, 15, 16, 20.8, 20, 16.

Solder contact spec

Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13	13	5	5	5	5	3
Contact diameter	Ø1.6X2	Ø1.6X3	Ø1X4	Ø1X5	Ø1X6	Ø1X7	Ø0.7X9
Rated voltage (AC.V)	250	250	200	180	125	125	125
Test voltage(AC.V) 1 min	1500	1500	1500	1000	1000	1000	1000
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	10
Wire size (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

SA16 Series

SA
16

Cable connector
Mate with SA1611, SA1612,
SA1613, SA1615

SA1610/P — SA1610/S —
Male contact
Female contact
Number of contact
Cable outer diameter
I : 5-8mm, II : 8-12mm
1: solder, 3: crimp
Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

SA1611/P — SA1611/S —
In-line cable connector
Mate with SA1610

SA1612/P — SA1612/S —
Rear-nut mount
Mate with SA1610
Number of contact
Colour

SA1613/P — SA1613/S —
Square flange
Mate with SA1610

SA1615/P — SA1615/S —
Front-nut mount
Mate with SA1610

Dimensions: 56, 22.5, 18.3, 22.8, 18.3, 13.1, 22.1, 15.5, 16, 20, 13, 20, 20.5, 22, 22.

Solder contact spec

Number of contact	2	3	4	2B	3B	4B	5	7	9	10
Male contact face view										
Rated current (A)	10	10	5	15	15	15	5	5	5	5
Contact diameter(mm)	Ø1.5X2	Ø1.5X3	Ø1X4	Ø2X2	Ø2X3	Ø2X4	Ø1X5	Ø1X7	Ø1X9	Ø1X10
Rated voltage (AC.V)	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	2.5	2.5	5	2.5	2.5	2.5	5	5	5	5
Wire size (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

★ Crimp contact spec see P22

SA20 Series

SA
20



Cable connector
Mate with SA2011, SA 2012,
SA2013, SA2015

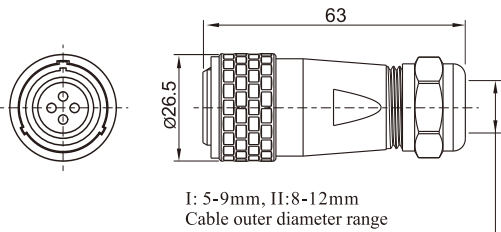
SA2010/P — SA2010/S

Male contact
Female contact
Number of contact

1: solder, 2: screw, 3: crimp, 8: angled screw

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

Cable outer diameter range
I: 5-9mm, II: 8-12mm

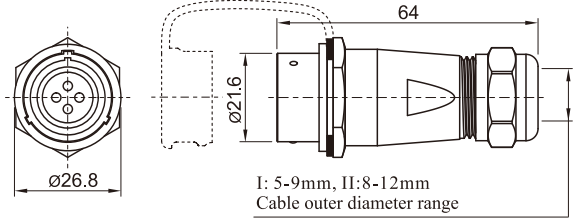


63
Ø26.5
I: 5-9mm, II: 8-12mm
Cable outer diameter range



In-line cable connector
Mate with SF2010

SA2011/P — SA2011/S

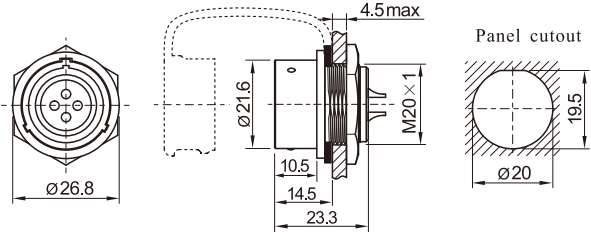


64
Ø21.6
Ø26.8
I: 5-9mm, II: 8-12mm
Cable outer diameter range



Rear-nut mount
Mate with SA2010

SA2012/P — SA2012/S

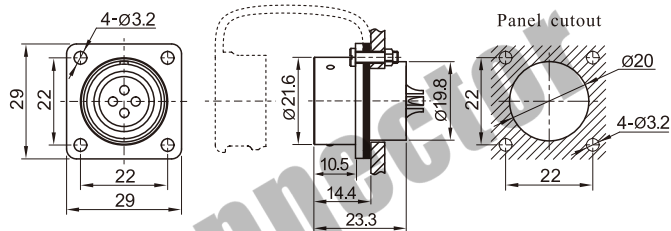


4.5max
Ø21.6
10.5
14.5
23.3
M20×1
Panel cutout
Ø20
19.5



Square flange
Mate with SA2010

SA2013/P — SA2013/S

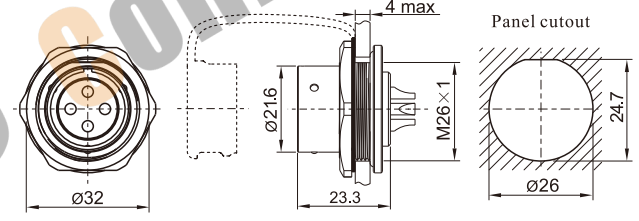


4-Ø3.2
29
22
22
29
Ø21.6
10.5
14.4
23.3
Panel cutout
Ø20
22
4-Ø3.2



Front-nut mount
Mate with SA2010

SA2015/P — SA2015/S



4 max
Ø21.6
23.3
M26×1
Panel cutout
Ø26
24.7

Solder contact spec

★Crimp contact spec see P22

★Screw contact spec see P23

Number of contact	2	3	4	5	6	6B	7	8	9	12	15
Male contact face view											
Rated current (A)	25	25	25	10	25 5	30 5	10	10	5	5	5
Contact diameter(mm)	Ø2.5X2	Ø2.5X3	Ø2.5X4	Ø1.5X5	Ø2.5X4 Ø1X2	Ø3X2 Ø1X4	Ø1.5X7	Ø1.5X8	Ø1X9	Ø1X12	Ø1X15
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	1	1	1	2.5	1 5	1 5	2.5	2.5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder	solder	solder	solder	solder	solder	solder	solder
Wire size for solder (mm ² / AWG)	≤4/12	≤4/12	≤4/12	≤1.5/16	≤4/12 ≤0.75/18	≤4/12 ≤0.75/18	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm ² /AWG)	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/

SA24 Series

SA
24



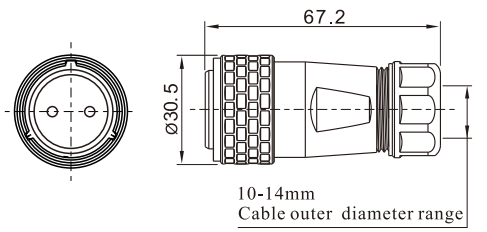
Cable connector
Mate with SA2411, SA2412, SA2413

SA2410/P — SA2410/S

Male contact
Female contact
Number of contact

1: solder, 2: screw, 3: crimp, 8: angled screw

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

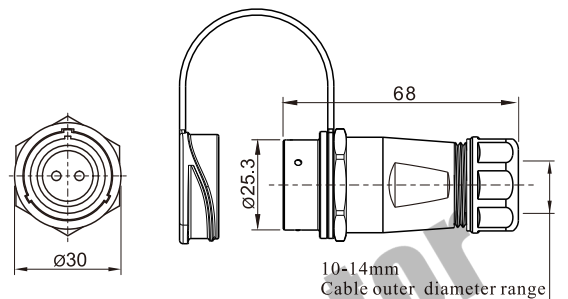


67.2
Ø30.5
10-14mm
Cable outer diameter range



In-line cable connector
Mate with SA2410

SA2411/P — SA2411/S

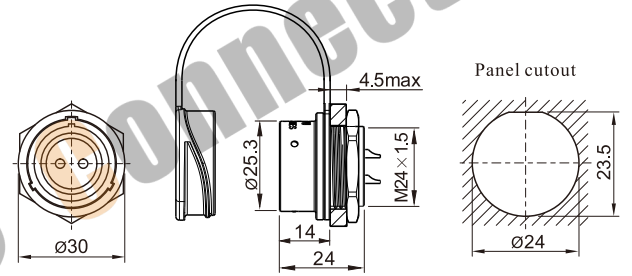


68
Ø25.3
Ø30
10-14mm
Cable outer diameter range



Rear-nut mount
Mate with SA2410

SA2412/P — SA2412/S

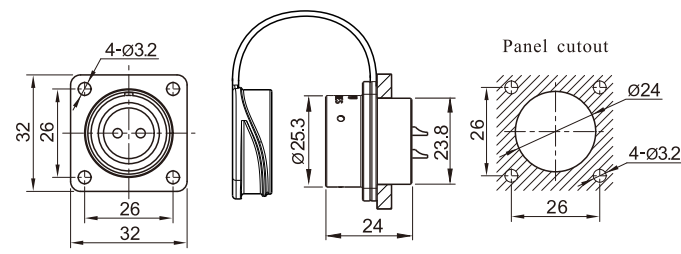


4.5max
Ø25.3
14
24
M24×1.5
Panel cutout
Ø24
23.5



Square flange
Mate with SA2410

SA2413/P — SA2413/S



4-Ø3.2
32
26
26
32
Ø25.3
24
23.8
26
Ø24
4-Ø3.2

Solder contact spec

★Crimp contact spec see P22

★Screw contact spec see P23

Number of contact	2	3	4	9	10	12	12B	19
Male contact face view								
Rated current (A)	25	25	25	5 25	10	10	5 30	5
Contact diameter(mm)	Ø2.5X2	Ø2.5X3	Ø2.5X4	Ø1X5 Ø2.5X4	Ø1.5X10	Ø1.5X12	Ø1X9 Ø3X3	Ø1X19
Rated voltage (AC.V)	500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200
Contact resistance (mΩ)	1	1	1	5 1	2.5	2.5	5 1	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm ² /AWG)	≤4/12	≤4/12	≤4/12	≤0.75/18 ≤4/11	≤1.5/16	≤1.5/16	≤0.75/18 ≤4/11	≤0.75/18
Wire size for screw termination	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	/	/	/

SA28 Series



SA2810/P **SA2810/S**

Male contact
Female contact
Number of contact

Cable connector
Mate with SA2811, SA2812, SA2813, SA2815

1: solder, 2: screw, 3: crimp, 8: angled screw

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

Cable outer diameter range
I: 9-13mm, II: 13-16mm



SA2811/P **SA2811/S**

In-line cable connector
Mate with SA2810



SA2812/P **SA2812/S**

Rear-nut mount
Mate with SA2810



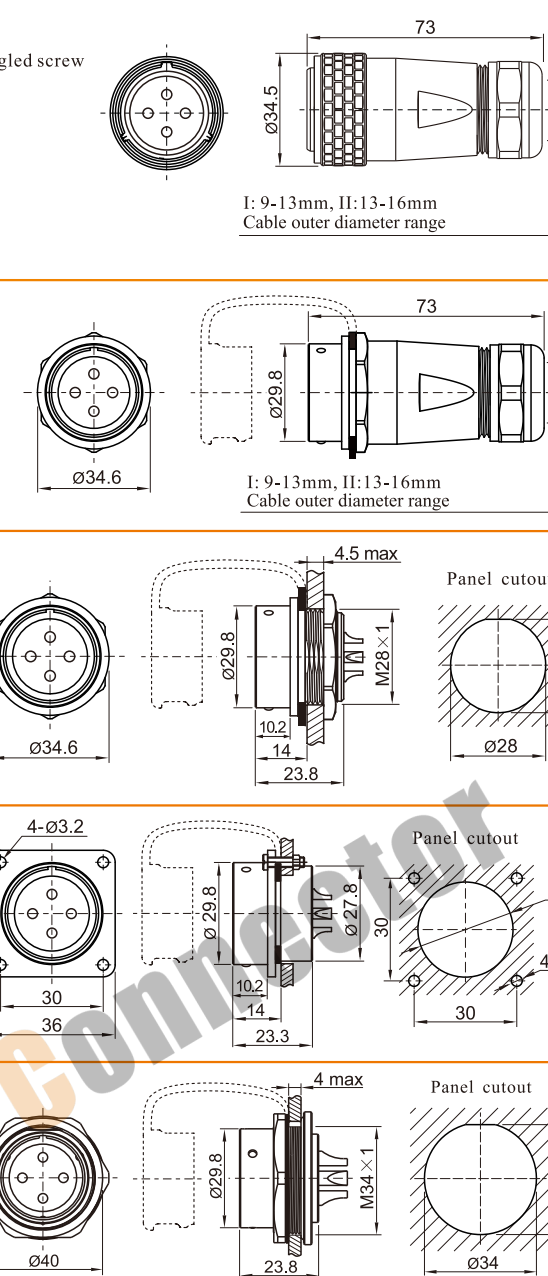
SA2813/P **SA2813/S**

Square flange
Mate with SA2810



SA2815/P **SA2815/S**

Front-nut mount
Mate with SA2810



73
Ø34.5
I: 9-13mm, II: 13-16mm
Cable outer diameter range

Ø34.6
I: 9-13mm, II: 13-16mm
Cable outer diameter range

4.5 max
Ø29.8
10.2
14
23.8
M28×1
Panel cutout
Ø28
27.5

4-Ø3.2
36
30
36
Ø29.8
10.2
14
23.3
Ø27.8
30
Panel cutout
Ø28
4-Ø3.2

4 max
Ø29.8
10.2
14
23.8
M34×1
Panel cutout
Ø34
32.6

SA
28

SA24 Series

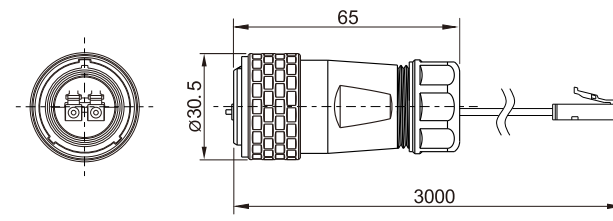


SA2410/PLC-

Cable length:
1.0 m
3.0 m
5.0 m

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

Plug with LC adapter
Mate with SA2411, SA2412, SA2413



65
Ø30.5
3000

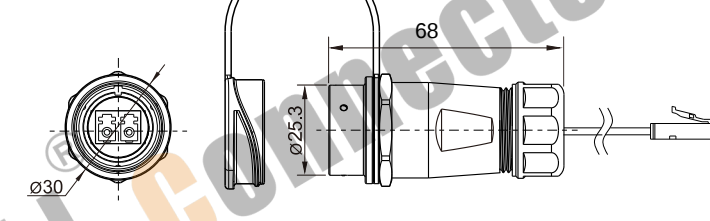


SA2411/SLC-

Cable length:
1.0 m
3.0 m
5.0 m

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

Receptacle with LC adapter
Mate with SA2410

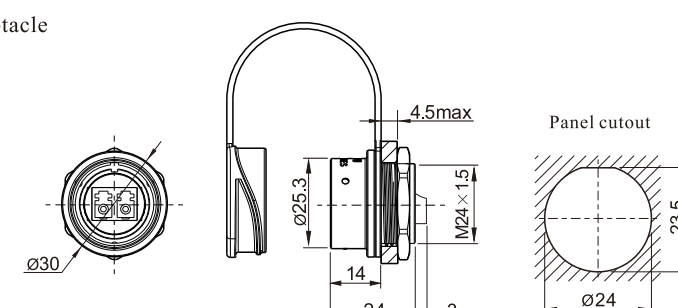


68
Ø25.3
Ø30



SA2412/SLC

Rear-nut mount receptacle
with LC adapter
Mate with SA2410



4.5max
Ø25.3
14
24
3
M24×1.5
Panel cutout
Ø24
23.5

NEW

SA24

Solder contact spec

★Crimp contact spec see P22

★Screw contact spec see P23

Number of contact	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60, 5	25, 5	25	10	10	10	10	5	5	5	5
Contact diameter(mm)	Ø3.5X2	Ø3.5X3	Ø2.5X4	Ø2.5X7	Ø2.5X8	Ø5X2 Ø1X6	Ø2.5X4 Ø1X5	Ø2.5X10	Ø1.5X10	Ø1.5X12	Ø1.5X16	Ø1.5X17	Ø1X20	Ø1X24	Ø1X26	Ø1X35
Rated voltage (AC.V)	500	500	500	500	500	500 400	500	500	500	500	500	500	400	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200	1200
Contact resistance(mΩ)	0.5	0.5	1	1	1	0.5, 5	1, 5	1	2.5	2.5	2.5	2.5	5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder / screw	solder	solder	solder	solder	solder	solder	solder	solder
Wire size (mm² / AWG)	≤10 / 7	≤10 / 7	≤4 / 12	≤4 / 12	≤4 / 12	≤16 / 5 ≤0.75 / 18	≤4 / 12 ≤0.75 / 18	≤4 / 12	≤1.5 / 16	≤1.5 / 16	≤1.5 / 16	≤1.5 / 16	≤0.75 / 18	≤0.75 / 18	≤0.75 / 18	≤0.75 / 18
Wire size for screw termination	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	/	/	Min: 0.5/20 Max: 1.5/15	/	/	/	/	/	/	/	/

SA24 Series



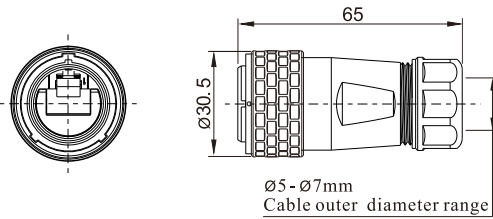
SA24



RJ45 Plug
Mate with SA2411, SA2412, SA2413

SA2410/PRJ45

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

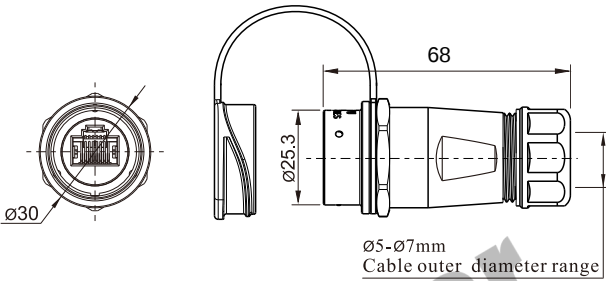


RJ45 Receptacle
Mate with SA2410

SA2411/SRJ45

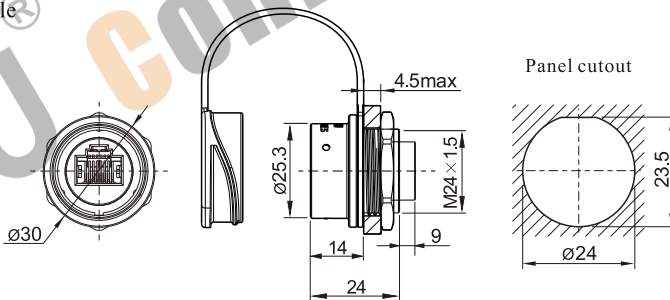
Standard: Cat 5
-C6: Cat6

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)



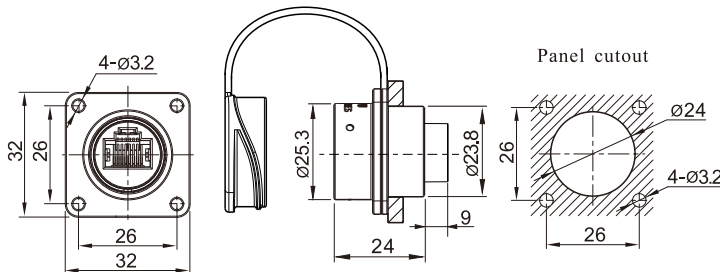
RJ45 Rear-nut mount receptacle
Mate with SA2410

SA2412/SRJ45



RJ45 Square flange receptacle
Mate with SA2410

SA2413/SRJ45



SA24 Series



SA24

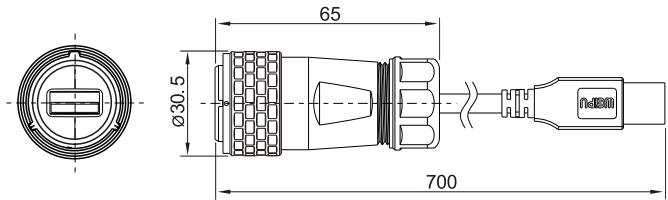


USB3.0 Plug
Mate with SA2411, SA2412, SA2413

SA2410/PUSB3.0

Cable length:
1.0 m
3.0 m

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

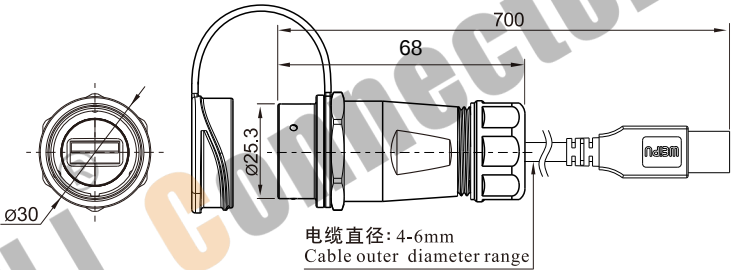


USB3.0 Receptacle
Mate with SA2410

SA2411/SUSB3.0

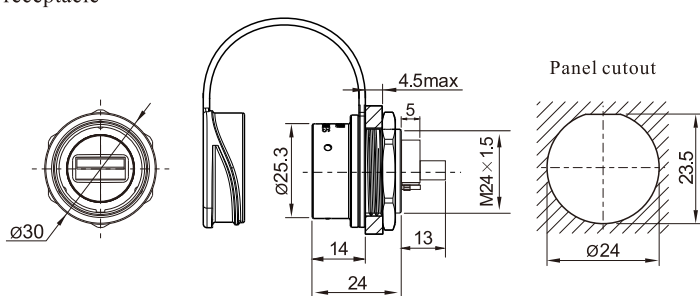
Cable length:
1.0 m
3.0 m

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)



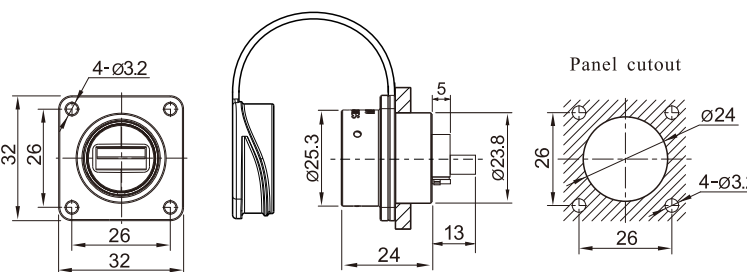
USB3.0 Rear-nut mount receptacle
Mate with SA2410

SA2412/SUSB3.0



USB3.0 Square flange receptacle
Mate with SA2410

SA2413/SUSB3.0



★ Cable length can be customized

★ Cable length can be customized

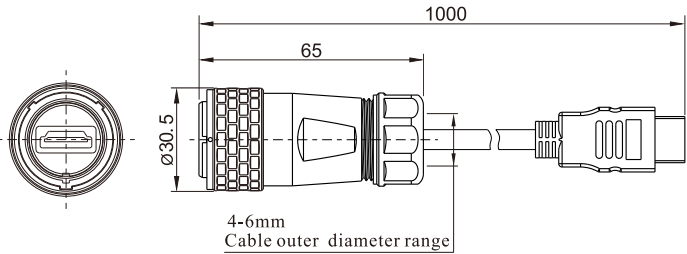
SA24 Series

NEW

SA24



HDMI2.0 Plug
Mate with SA2411, SA2412, SA2413



SA2410/PHDMI2.0

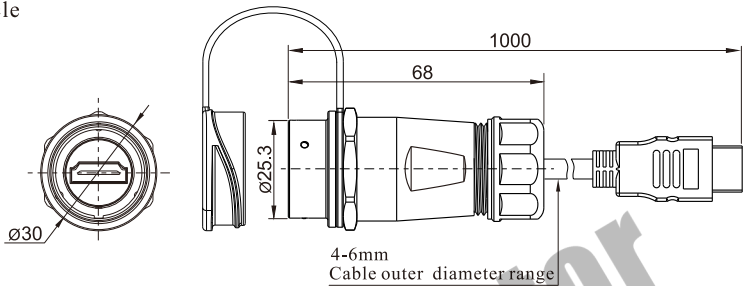
Cable length:
1.0 m
3.0 m

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

★ Cable length can be customized



HDMI2.0 Receptacle
Mate with SA2410



SA2411/SHDMI2.0

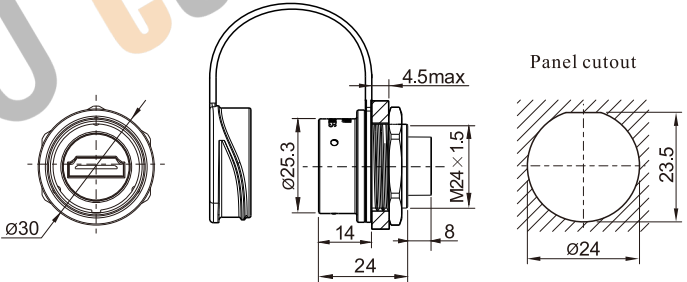
Cable length:
1.0 m
3.0 m

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

★ Cable length can be customized



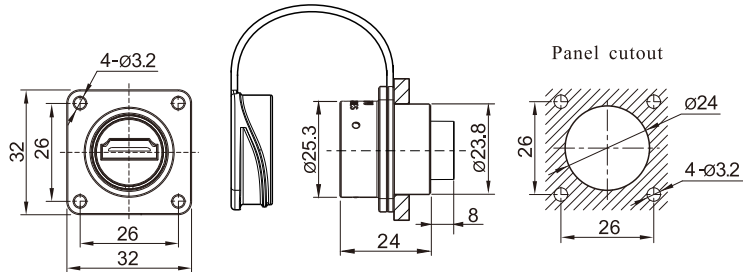
HDMI2.0 Rear-nut mount receptacle
Mate with SA2410



SA2412/SHDMI2.0



HDMI2.0 Square flange receptacle
Mate with SA2410



SA2413/SHDMI2.0

