

2019 Edition



Professional Connector Manufacturer

Push-Pull Connectors

www.creken.co.kr

CREKEN
(주)크레켄

FINECABLES®

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About Finecables



Finecables, established in 2003, is committed to being the world's leading manufacturer in industrial connectivity. At Finecables, we combine a strong customer focus along with a wealth of practical industry experience in order to provide our clients all around the world with reliable and innovative connectivity products as well as excellent customer service. Additionally, we continue to extend our self-owned brand @ Finecables in various applications by developing customized products, which cover not only PUSH PULL connectors & industrial connectors, but also electronic interconnection and data networking. Our production capacity is already more than 50 million PCS yearly.

Corporate Culture

Finecables' corporate culture consists of passion, dedication and commitment. We are greatly enthusiastic about what we do and helping our customers realize their dreams and ambitions. We are committed to industrial connectivity and place great emphasis on building long-term partnerships and mutually beneficial relationships with both customers and suppliers. Very simply, we are your ideal business partner!

Push-Pull Connector
Designed for
Quick and Stable Installation



R & D



With years of experience and technological acquisition and accumulation in industrial connectivity, the R&D team at Finecables utilizes powerful tooling ability and productivity to continue to raise the bar for industry standards. Our unique competitive advantage allows us to research and develop innovative total solutions and fully realize our customer's specific requirements and requests. So far, Finecables has developed over 20,000 kinds of connectors totally.

Quality

Quality is to Finecables what health is to human beings; the core competence of products shall base on its superior performance and reliable quality. Our commitments on "high quality" come from our team's comprehensive understanding in quality. We have designed strict audit and quality control process to assure ourselves and our suppliers are offering the best practice. ISO9001, ISO14001, OHSAS18001, IATF16949, ISO13485 and CE, UL represent our quality value.

Finecables fulfills its core value of "Promptness, Excellence, Awareness, and Gratitude", by insisting our long-term partnership and win-win cooperation with both customers and suppliers.



Push-Pull Connector Introduction

The push-pull connectors integrate the push lock mechanism together with audible and tactile feedback, Finecables's Push-pull series connectors is the ideal mating solution for fast and easy operation in medical and industrial applications. These products are particularly suitable for high reliability and high quality applications where a simple yet fast method to connect/disconnect is required, and also suitable for high endurance and ease of operation in very limited spaces.

Technical Features At A Glance

- Fast and easy to use
- Field installable and free assembled versions
- Wire gauges range from 30 AWG to 12AWG.
- Audible and tactile feedback
- Mechanically keyed: Ensures correct polarization and alignment.
- Mating/ unmating endurance: Metal > 5000, Plastic > 2000
- Contact layouts from 2 to 32 contacts, coaxial triaxial
- Straight or right angle PCB contacts.
- Space saving
- Excellent performance under harsh environmental conditions in both high temperature and high humidity.
- Robust housings
- 360° electromagnetic shielding
- Fire and smoke compliance
- Indoor IP50, Outdoor IP68
- Solder and crimping contacts available
- RoHS conformity



APPLICATION

Push-Pull Connector Designed for Quick and Stable Installation

Finecables truly understands the cost, time and quality associated with the installation and integration design. Our customized solutions and one-stop services will help you reach your objective by reducing the installation time of cables and wires by 20% to 80%, BOM and design/field assembly labor costs for numerous application fields: Sensors & Industrial Automation Control, Telecommunications & Network, HVAC & Refrigeration, LED Lighting, Railway Transportation System, Marine & Ship Engineering, Medical Devices, Renewable Energy, Measuring & Testing and Package conveyor and so on.



Medical Industry



Broadcast System



Aerospace and Drone



Measuring & Testing



Railway Transportation System



Industrial Automation



Military and Security

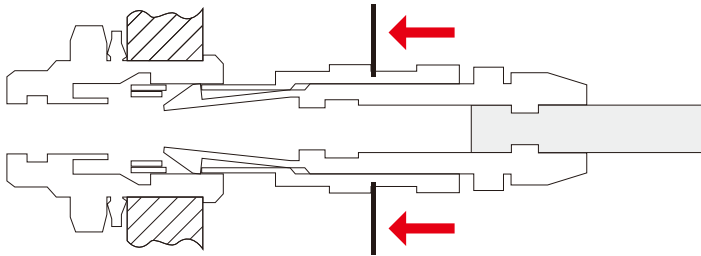
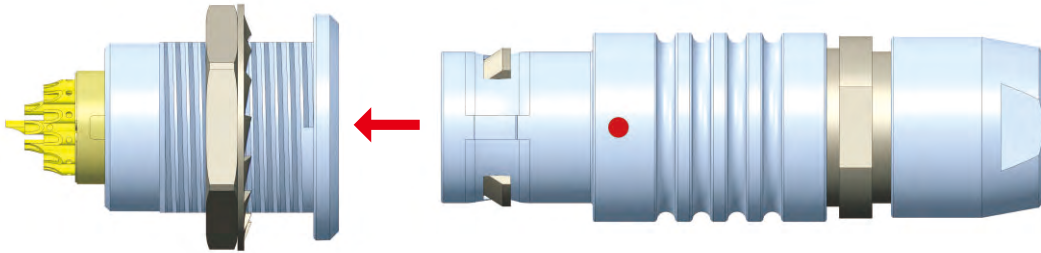


Telecommunication System

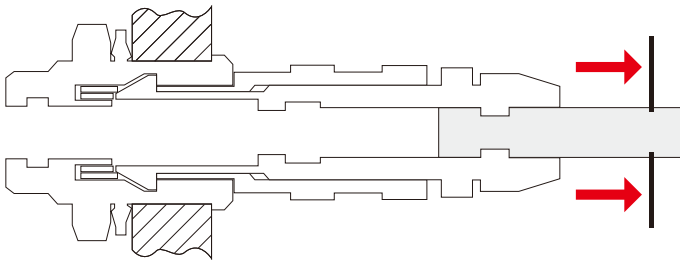


Automotive

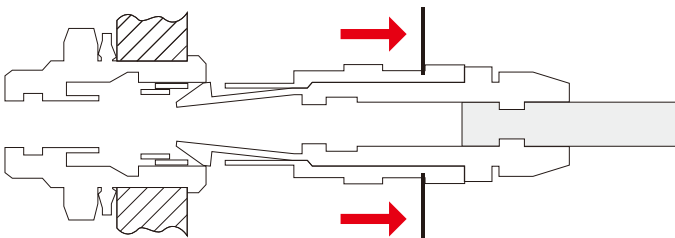
Push-Pull Self-latching Connection System



The self-latching system allows the connector to be mated by simply pushing the plug axially into the socket.



Once firmly latched, connection cannot be broken by pulling on the cable or any other component other than the outer release sleeve.



when required, the connector is disengaged by a single axial pull on the outer release sleeve. It firstly disengages the latches and then withdraws the plug from the socket.

06

Step 1: Select Connector Series

The metal housing standard keyed Series (B)

The characteristic feature of these connector series is a keying system which allows higher contact density and prevents all errors in alignment. The various keying alternatives prevent unwanted cross mating of otherwise similar connectors. These connector series include the 00 to 3B range

The metal housing waterproof keyed Series (K)

These series are waterproof when mated and assembled to an appropriate cable. They include the 0K to 3K series, available in the same types as the 00 to 3B series.

The metal housing standard Series (S)

The characteristic feature of these connector series is the PTFE insulator in the coaxial triaxial version. They include principally the 0S to 1S series.

The plastic housing Series (P)

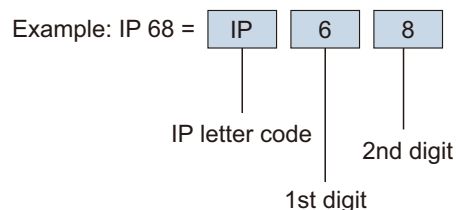
The material of these series is plastic, including standard version and waterproof version when mated. They include the 1P to 2P series.



Series	00/B	K	S	P
Environment	indoor	outdoor or harsh env.	indoor	indoor or outdoor
Ingress protection when mated	IP50	IP66 to IP68	IP50	IP50 to IP66
Temperature range	- 55 to 250°C	- 55 to 200°C	- 50 to 250°C	- 50 to 150°C
Latching	Push-Pull self-latching	Push-Pull self-latching	Push-Pull self-latching	Push-Pull self-latching
Shell sizes	5	4	3	2
Insulator type	Multipole	Multipole	Multipole / Coaxial triaxial	Multipole
Contact type	Solder, crimp or print	Solder, crimp or print	Solder	Solder, crimp or print
Page	12~23	24~28	37~41	45~50

Definition of Ingress Protection (IP code)

IEC 60529 outlines an international classification system for the sealing effectiveness of enclosures of electrical equipment against the intrusion into the equipment of foreign bodies (i.e. tools, dust, fingers) and moisture. This classification system utilizes the letters «IP» (Ingress Protection) followed by two digits.



Degrees of protection - First digit

The first digit of the IP code indicates the degree to which persons are protected against contact with moving parts and the degree that equipment is protected against solid foreign bodies intruding into an enclosure.

Code	First digit description
0	No special protection
1	Protection from a large part of the body such as hand or from solid objects greater than 50 mm in diameter
2	Protection against objects not greater than 80 mm in length and 12 mm in diameter
3	Protection from entry by tools, wires, etc., with a diameter or thickness greater than 2.5 mm
4	Protection from entry by solid objects with a diameter or thickness greater than 1.0 mm
5	Protection from the amount of dust that would interfere with the operation of the equipment
6	Dust-tight
7	–
8	–

Degrees of protection - Second digit

The second digit indicates the degree of protection of the equipment inside the enclosure against the harmful entry of various forms of moisture (e.g. dripping, spraying, submersion, etc.)

Code	Second digit description
0	No special protection
1	Protection from vertically dripping water
2	Protection from dripping water when tilted up to 15°
3	Protection from sprayed water
4	Protection from splashed water
5	Protection from water projected from a nozzle
6	Protection against heavy seas, or powerful jets of water
7	Protection against temporary immersion
8	Protection against complete continuous submersion in water

Step 2: Select Connector Size

Select the right connector size and insert configuration

To be able to select the right connector size (0 to 3), it is important to define the contact diameter (ϕ A).

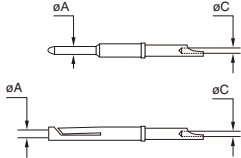
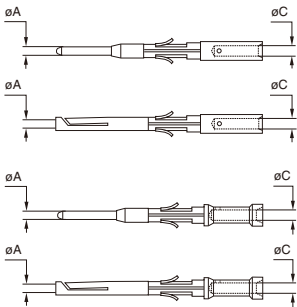
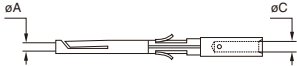
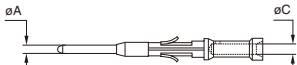
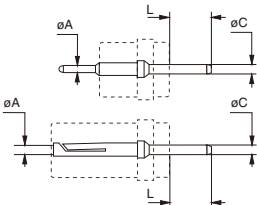
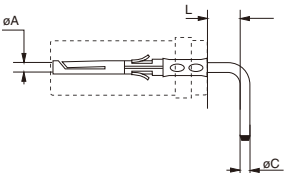
Find out the available contact diameter (ϕ A) of the connector depending on the number of contacts required and depending on the rating required.

The following table shows the contact diameter (ϕ A)

Number of contacts	Insert configuration	Series									
											
		00	0B-0K	1B-1K	2B-2K	3B-3K	0S	1S	2S	1P	2P
Triaxial Coaxial											
1	650						0.9	0.9			
Multipole											
2	302	0.5	0.9	1.3	2.0	3.0	0.9	1.3	1.6	1.3	2.0
3	303	0.5	0.9	1.3	1.6	2.0	0.7	0.9	1.3		1.6
4	304	0.5	0.7	0.9	1.3	2.0	0.7	0.9	1.3	0.9	1.3
5	305	0.35	0.7	0.9	1.3	1.6		0.9 / 0.7	1.3	0.9	1.3
6	306		0.5	0.7	1.3	1.6		0.7	1.3	0.7	1.3
7	307		0.5	0.7	1.3	1.6			1.3/0.9	0.7	1.3
8	308			0.7	0.9	1.3			0.9	0.7	0.9
9	309		0.5			1.3/2.0				0.5	
10	310			0.5	0.9	1.3			0.9	0.5	0.9
12	312		0.35		0.7	0.9					0.7
14	314			0.5	0.7	0.9				0.5	
16	316			0.5	0.7	0.9					0.7
18	318				0.7	0.9					
19	319				0.7						0.7
20	320					0.7					
22	322					0.7					
24	324					0.7					
26	326				0.5	0.7					0.5
30	330					0.7					
32	332				0.5						

Verify the fitting to your wire

Verify if the selected contact diameter (ϕA) of the connector fits to your cable wire diameter (AWG number or max. available section).

Contact type	Contact			Conductor						Fr 1) (N)
				Solid		Stranded				
	øA (mm)	øC (mm)	Form per fig.	AWG max.	Section max. (mm ²)	AWG		Section (mm ²)		
						min.	max.	min.	max.	
Solder 	0.50	0.4	-	28	0.09	—	30	—	0.05	—
	0.50	0.5	-	28	0.09	—	28	—	0.09	—
	0.70	0.6	-	24	0.25	—	26	—	0.14	—
	0.7	0.8	-	22	0.34	—	22	—	0.34	—
	0.9	0.8	-	22	0.34	—	22	—	0.34	—
	1.3	1.0	-	20	0.50	—	20	—	0.50	—
	1.6	1.4	-	16	1.00	—	18	—	1.00	—
	2.0	1.8	-	14	1.50	—	16	—	1.50	—
	3.0	2.7	-	10	4.00	—	12	—	4.00	—
Crimp  fig. 1  fig. 2 	0.5	0.45	1	—	—	32	28	0.035	0.09	12
	0.7	0.80	1	—	—	26	22	0.140	0.34	22
	0.7	0.45	2	—	—	32	28	0.035	0.09	22
	0.9	1.10	1	—	—	24	20	0.250	0.50	30
	0.9	0.80	2	—	—	26	22	0.140	0.34	30
	0.9	0.45	2	—	—	32	28	0.035	0.09	30
	1.3	1.40	1	—	—	20	18	0.500	1.00	40
	1.3	1.10	2	—	—	24	20	0.250	0.50	40
	1.3	0.80	2	—	—	26	22	0.140	0.34	40
	1.6	1.90	1	—	—	18	14	1.000	1.50	50
	1.6	1.40	2	—	—	22	18	0.340	1.00	50
	2.0	2.40	1	—	—	16	12	1.500	2.50	65
	2.0	1.90	2	—	—	18	14	1.000	1.50	65
	3.0	2.90	1	—	—	14	10	2.500	4.00	75
	Print 	L dimensions and C are detailed in the section on PCB drilling pattern.								
Print (elbow) 	L dimensions and C are detailed in the section on PCB drilling pattern.									

Verify the fitting to your cable

Verify if the selected connector size fits to your cable diameter.

B Series

Series	Cable diameter range (mm)			
	Collet		Collet for fitting a bend relief	
	min.	max.	min.	max.
00	1.1	3.4	1.1	3.4
0B	1.5	5.5	1.5	5.0
1B	2.2	7.5	2.2	7.0
2B	1.5	9.7	1.5	9.0
3B	4.1	11.7	4.1	11.0

K Series

Series	Cable diameter range (mm)			
	Collet		Collet for fitting a bend relief	
	min.	max.	min.	max.
0K	1.0	5.0	1.0	5.0
1K	1.3	8.5	1.3	8.5
2K	1.3	10.5	1.3	10.5
3K	2.6	15.0	2.6	15.0

S Series

Series	Cable diameter range (mm)			
	Collet		Collet for fitting a bend relief	
	min.	max.	min.	max.
0S	1.3	6.7	1.3	6.1
1S	1.3	8.5	1.3	8.0
2S	1.3	10.5	1.3	10.0

P Series

Series	Cable diameter range (mm)			
	Collet		Collet for fitting a bend relief	
	min.	max.	min.	max.
1P	1.7	6.5	1.7	6.5
2P	3.2	9.2	3.2	9.0

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B Series

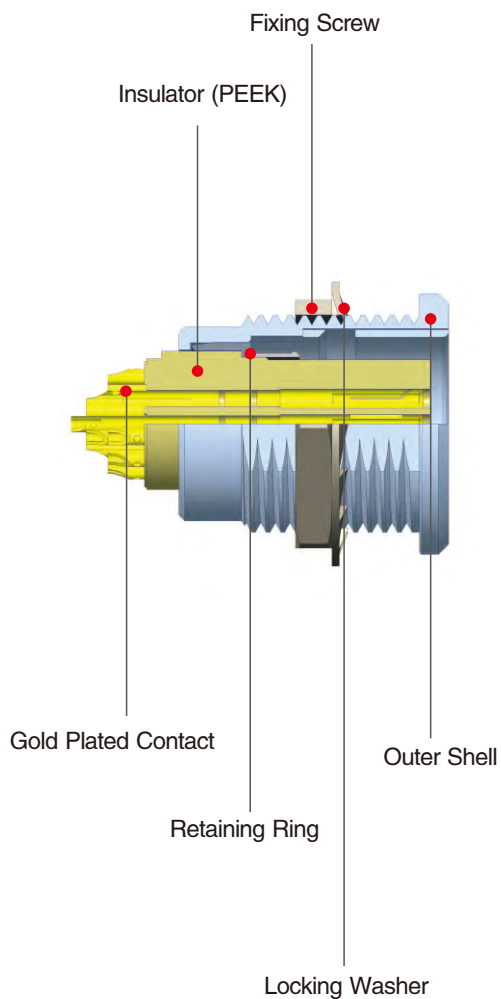
(indoor, keyed)



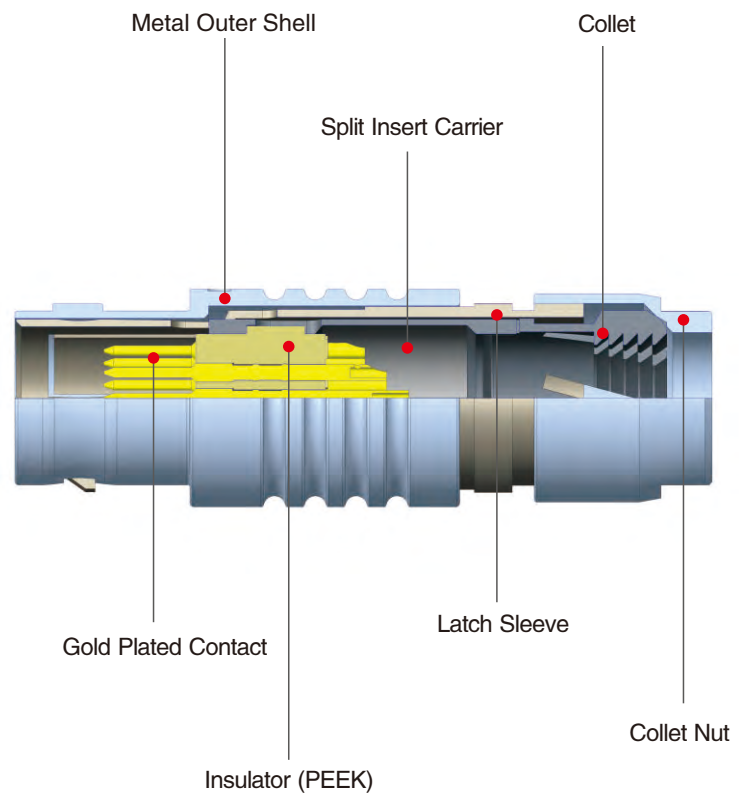
Part Section Showing Internal Components

B SERIES

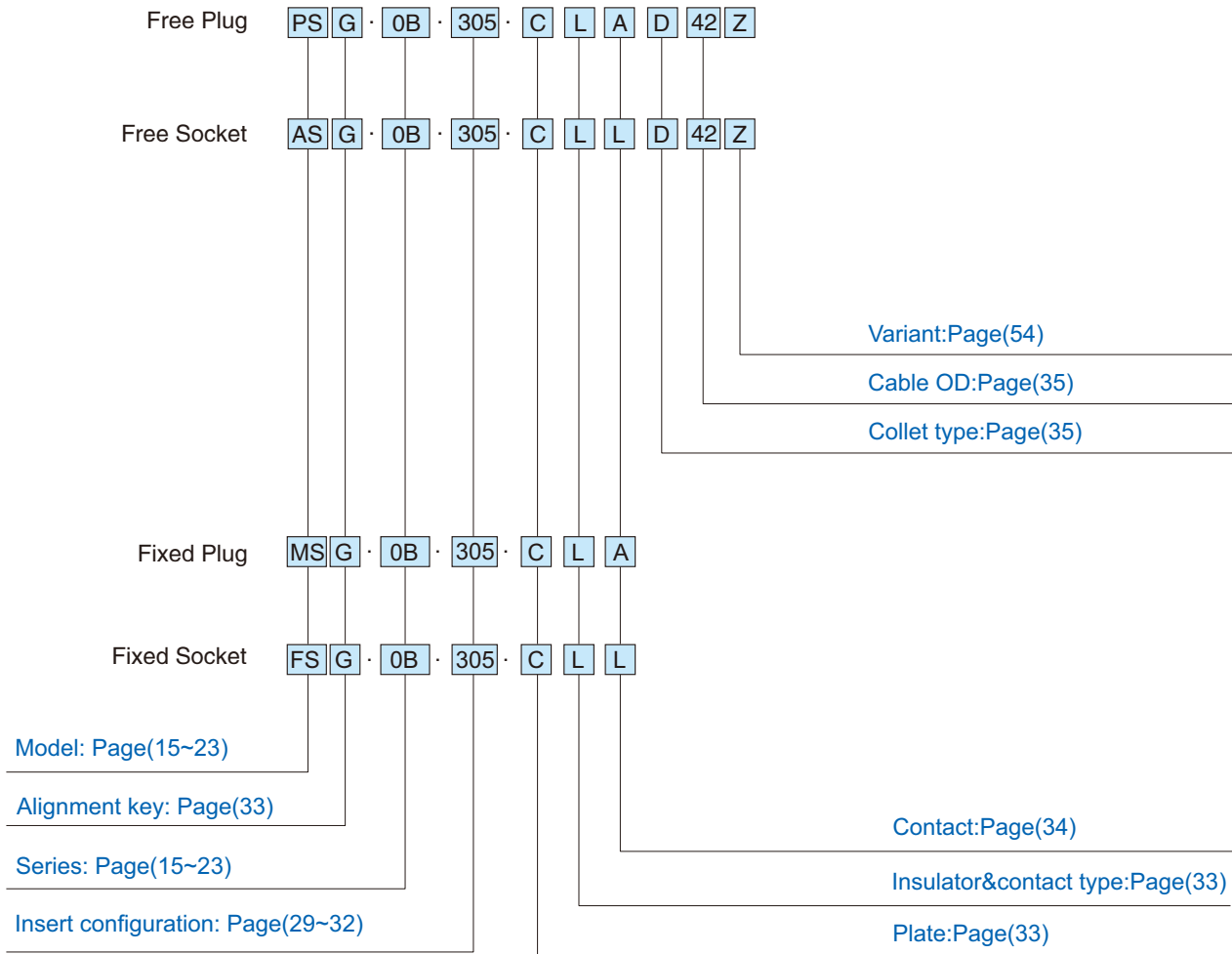
Fixed Socket



Straight Plug



Part Number Definition



Part Number Example

Straight plug with cable collet:

PSG.0B.305.CLAD42=straight plug with key(G) and cable collet,0B Series, multipole type with 5 contacts, outershell in chrome-plated brass, PEEK insulator male solder contacts, D type collet for 4.0mm diameter cable.

Straight plug with cable collet:

ASG.0B.305.CLLD42Z=free socket with key(G)and cable collet,0B series, multipole type with 5 contacts, outershell in chrome-plated brass, PEEK insulator, female solder contacts, D type collet for 4.0mm diameter cable and nut for fitting a bend relief.

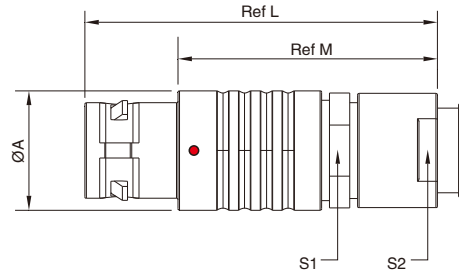
Fixed socket:

FSG.0B.305.CYM=fixed socket, nut fixing, with key(G),0B series, multipole type with 5 contacts, outershell Ichrome-plated brass, PEEK insulator, female crimp contacts.

B Series, PSG Straight Plug, Nut for Bend Relief, Key(G)

- Connector series: PSG
- Contact: Male
- Coding: G(More coding, refer to P33)
- Locking type: Self-locking
- Orientation type: Straight
- Part No.: PSG.XB.XXX.XXXXXXZ
- Mated with: FSG/FAG/SFG/SRG/SEG/
FBG/PRG/ASG series

"X" refers to part number definition



General Information

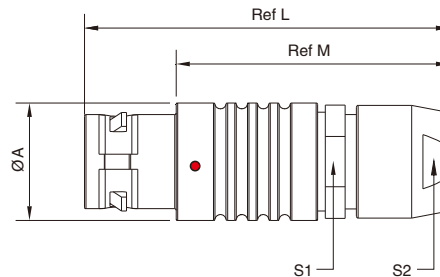
Ambient temperature:	-55℃ ~ +250℃
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)				
	A	L	M	S1	S2
00	6.4	36.5	28.5	5.5	5
0B	9.5	35	25	8	7
1B	12	42	31	10	9
2B	15	49	37	13	12
3B	18	56.5	41.5	15	15

B Series, PSG Straight Plug, Key(G)

- Connector series: PSG
- Contact: Male
- Coding: G(More coding, refer to P33)
- Locking type: Self-locking
- Orientation type: Straight
- Part No.: PSG.XB.XXX.XXXXXX
- Mated with: FSG/FAG/SFG/SRG/SEG/
FBG/PRG/ASG series

"X" refers to part number definition



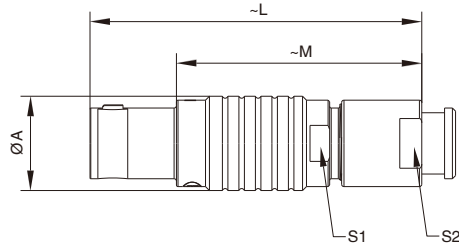
General Information

Ambient temperature:	-55℃ ~ +250℃
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)				
	A	L	M	S1	S2
00	6.4	28.5	20.5	5.5	5
0B	9.5	36	26	8	7
1B	12	43	32	10	9
2B	15	50	38	13	12
3B	18	58	43	15	14

B Series, PLG Straight Plug, Nut for Bend Relief, Key(G), Non-latching

- Connector series: PLG
 - Contact: Male
 - Coding: G(More coding, refer to P33)
 - Locking type: Non-latching
 - Orientation type: Straight
 - Part No.: PLG.XB.XXX.XXXXXXZ
 - Mated with: FSG/FAG/SFG/SRG/SEG/
FBG/PRG/ASG series
- "X" refers to part number definition



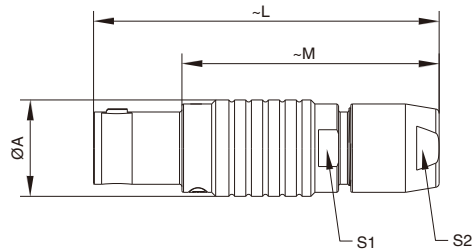
General Information

Ambient temperature:	-55°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)				
	A	L	M	S1	S2
0B	9.5	35	25	8	7
1B	12.0	42	31	10	9
2B	15.0	49	37	13	12
3B	18.0	56.5	41.5	15	14

B Series, PLG Straight Plug, Key(G), Non-latching

- Connector series: PLG
 - Contact: Male
 - Coding: G(More coding, refer to P33)
 - Locking type: Non-latching
 - Orientation type: Straight
 - Part No.: PLG.XB.XXX.XXXXXXX
 - Mated with: FSG/FAG/SFG/SRG/SEG/
FBG/PRG/ASG series
- "X" refers to part number definition



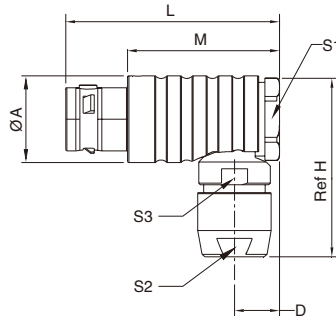
General Information

Ambient temperature:	-55°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)				
	A	L	M	S1	S2
0B	9.5	36	26	8	7
1B	12.0	43	32	10	9
2B	15.0	50	38	13	12
3B	18.0	58	43	15	14

B Series, PAG Angled Plug, Key(G)

- Connector series: PAG
 - Contact: Male
 - Coding: G(More coding, refer to P33)
 - Locking type: Self-locking
 - Orientation type: Angled
 - Part No.: PAG.XB.XXX.XXXXXX
 - Mated with: FSG/FAG/SFG/SRG/SEG/
FBG/PRG/ASG series
- "X" refers to part number definition



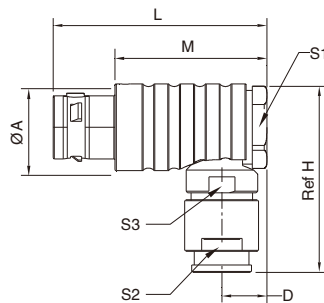
General Information

Ambient temperature:	-55℃ ~ +250℃
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)							
	A	D	H	L	M	S1	S2	S3
00	7.7	5.2	18.0	24.5	16.5	7	5	5.5
0B	11.0	6.5	26.0	31.6	21.6	10	7	8.0
1B	13.5	8.0	30.5	36.0	25.0	11	9	10.0
2B	16.5	9.0	34.0	41.5	29.5	14	12	13.0
3B	19.0	10.0	37.0	50.0	35.0	17	14	15.0

B Series, PAG Angled Plug, Nut for Bend Relief, Key(G)

- Connector series: PAG
 - Contact: Male
 - Coding: G(More coding, refer to P33)
 - Locking type: Self-locking
 - Orientation type: Angled
 - Part No.: PAG.XB.XXX.XXXXXXZ
 - mated with: FSG/FAG/SFG/SRG/SEG/
FBG/PRG/ASG series
- "X" refers to part number definition



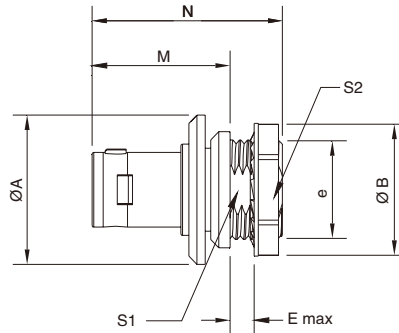
General Information

Ambient temperature:	-55℃ ~ +250℃
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)							
	A	D	H	L	M	S1	S2	S3
00	7.7	5.2	19.5	24.5	16.5	7	5	5.5
0B	11.0	6.5	28.0	31.6	21.6	10	7	8.0
1B	13.5	8.0	33.5	36.0	25.0	11	9	10.0
2B	16.5	9.0	38.5	41.5	29.5	14	12	13.0
3B	19.0	10.0	42.0	50.0	35.0	17	14	15.0

B Series, MSG Fixed Straight Plug, Key(G)

- Connector series: MSG
 - Contact: Male
 - Coding: G(More coding, refer to P33)
 - Locking type: Self-locking
 - Orientation type: Straight
 - Part No.: MSG.XB.XXX.XXX
 - Mated with: FSG/FAG/SFG/SRG/SEG
FBG/PRG/ASG series
- "X" refers to part number definition



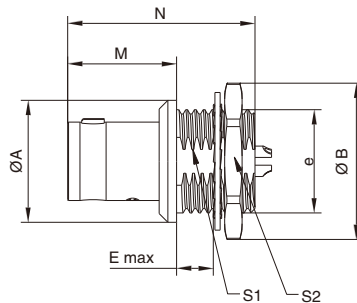
General Information

Ambient temperature:	-55°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)							
	A	B	e	E	M	N	S1	S2
0B	14.0	12.4	M9*0.6	1.8	14.5	19.5	8.2	11
1B	18.0	15.8	M12*1.0	2.9	17	24.8	10.5	14
2B	19.5	19.2	M15*1.0	4.1	18	27.3	13.5	17
3B	25.0	25.0	M18*1.0	4.2	23	31.5	16.5	22

B Series, PPG Fixed Straight Plug, Key(G), Non-latching

- Connector series: PPG
 - Contact: Male
 - Coding: G(More coding, refer to P33)
 - Locking type: Non-latching
 - Orientation type: Straight
 - Part No.: PPG.XB.XXX.XXXXX
 - Mated with: FSG/FAG/SFG/SRG/SEG
FBG/PRG/ASG series
- "X" refers to part number definition



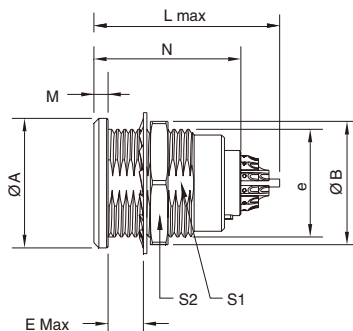
General Information

Ambient temperature:	-55°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)							
	A	B	e	E	M	N _{Max}	S1	S2
00	8	10.2	M7*0.5	2.9	9.0	18.1	6.3	9
0B	10	12.4	M9*0.6	4.2	11.2	20.8	8.2	11
1B	14	15.8	M12*1.0	5.4	12.5	25.2	10.5	14
2B	18	19.2	M15*1.0	6.0	13.8	28.7	13.5	17
3B	22	25.0	M18*1.0	5.8	17.0	32.1	16.5	22

B Series, FSG Fixed Straight Socket, Key(G)

- Connector series: FSG
 - Contact: Female
 - Coding: G(More coding, refer to P33)
 - Locking type: Self-locking
 - Orientation type: Straight
 - Part No.: FSG.XB.XXX.XXX
 - Mated with: PSG/PAG/MSG/PLG/PPG series
- "X" refers to part number definition



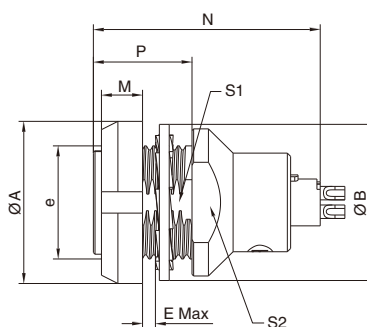
General Information

Ambient temperature:	-55℃ ~ +250℃
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)								
	A	B	e	E	L	M	N _{Max}	S1	S2
00	8	10.2	M7*0.5	6.0	15.5	1.0	13.7	6.3	9
0B	10	12.4	M9*0.6	7.0	20.7	1.2	19.1	8.2	11
1B	14	15.8	M12*1.0	7.5	23.0	1.5	21.1	10.5	14
2B	18	19.2	M15*1.0	8.5	26.7	1.8	24.6	13.5	17
3B	22	25.0	M18*1.0	11.5	30.7	2.0	28.1	16.5	22

B Series, SRG Fixed Straight Socket, Key(G), Front fasten

- Connector series: SRG
 - Contact: Female
 - Coding: G(More coding, refer to P33)
 - Locking type: Self-locking
 - Orientation type: Straight
 - Part No.: SRG.XB.XXX.XXX
 - Mated with: PSG/PAG/MSG/PLG/PPG series
- "X" refers to part number definition



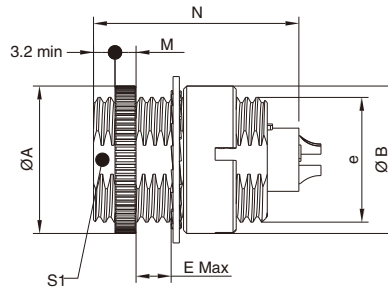
General Information

Ambient temperature:	-55℃ ~ +250℃
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)								
	A	B	e	E	M	N _{Max}	P	S1	S2
00	10	9.5	M7*0.5	2.3	2.5	15.5	6.0	6.3	7.5
0B	12	12.5	M9*0.6	2.4	2.5	20.7	6.3	8.2	9.0
1B	16	16.0	M12*1.0	6.5	3.5	23.0	11.0	10.5	13.0
2B	20	20.0	M15*1.0	3.0	3.5	26.7	9.0	13.5	15.0
3B	24	25.0	M18*1.0	5.0	4.5	30.7	12.0	16.5	20.0

B Series, SFG Fixed Straight Socket, Key(G), Two nuts

- Connector series: SFG
 - Contact: Female
 - Coding: G(More coding, refer to P33)
 - Locking type: Self-locking
 - Orientation type: Straight
 - Part No.: SFG.XB.XXX.XXX
 - Mated with: PSG/PAG/MSG/PLG/PPG series
- "X" refers to part number definition



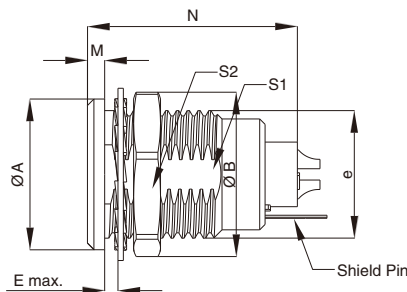
General Information

Ambient temperature:	-55°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)							
	A	B	e	E	M	N _{Max}	S1	S2
00	9.5	9	M7*0.5	4.2	2	13.7	-	-
1B	14.0	14	M12*1.0	8.0	2	21.1	10.5	-

B Series, SEG Fixed Straight Socket, Key(G), Earthing tag

- Connector series: SEG
 - Contact: Female
 - Coding: G(More coding, refer to P33)
 - Locking type: Self-locking
 - Orientation type: Straight
 - Part No.: SEG.XB.XXX.XXX
 - Mated with: PSG/PAG/MSG/PLG/PPG series
- "X" refers to part number definition



General Information

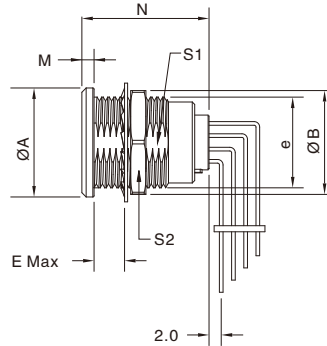
Ambient temperature:	-55°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)							
	A	B	e	E	M	N _{Max}	S1	S2
0B	10	12.4	M9*0.6	7.0	1.2	19.1	8.2	11
1B	14	15.8	M12*1.0	7.5	1.5	21.1	10.5	14
2B	18	19.2	M15*1.0	8.5	1.8	24.6	13.5	17
3B	22	25.0	M18*1.0	11.5	2.0	28.1	16.5	22

B Series, FAG Fixed Angled Socket, Key(G)

- Connector series: FAG
- Contact: Female
- Coding: G(More coding, refer to P33)
- Locking type: Self-locking
- Orientation type: Angled
- Part No.: FAG.XB.XXX.XXX
- Mated with: PSG/PAG/MSG/PLG/PPG series

"X" refers to part number definition



General Information

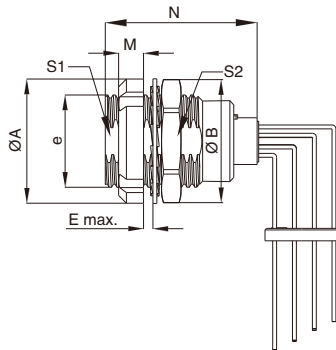
Ambient temperature:	-55°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)							
	A	B	e	E	M	N	S1	S2
0B	10	12.4	M9*0.6	7.0	1.2	19.1	8.2	11
1B	14	15.8	M12*1.0	7.5	1.5	21.1	10.5	14
2B	18	19.2	M15*1.0	8.5	1.8	24.6	13.5	17
3B	22	25.0	M18*1.0	11.5	2.0	28.1	16.5	22

B Series, FBG Fixed Angled Socket, Key(G), Front fasten

- Connector series: FBG
- Contact: Female
- Coding: G(More coding, refer to P33)
- Locking type: Self-locking
- Orientation type: Angled
- Part No.: FBG.XB.XXX.XXX
- Mated with: PSG/PAG/MSG/PLG/PPG series

"X" refers to part number definition



General Information

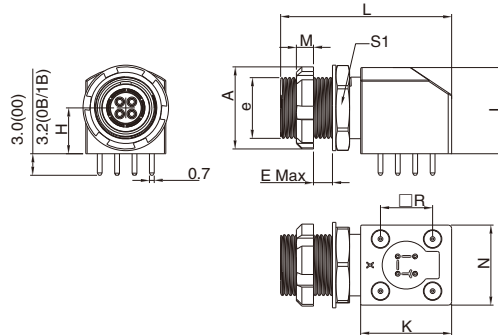
Ambient temperature:	-55°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)							
	A	B	e	E	M	N Max	S1	S2
0B	12	12.4	M9*0.6	2.4	2.5	18.3	8.2	11
1B	16	15.8	M12*1.0	3.5	3.5	20.3	10.5	14
2B	20	19.2	M15*1.0	3.5	3.5	22.3	13.5	17
3B	24	25.0	M18*1.0	4.5	4.5	25.8	16.5	22

B Series, FCG Fixed Angled (90°)Socket, Key(G), for printed circuit

- Connector series: FCG
- Contact: Female
- Coding: G(More coding, refer to P33)
- Locking type: Self-locking
- Orientation type: Angled
- Part No.: FCG.XB.XXX.HLN
- Mated with: PSG/PAG/MSG series

"X" refers to part number definition



General Information

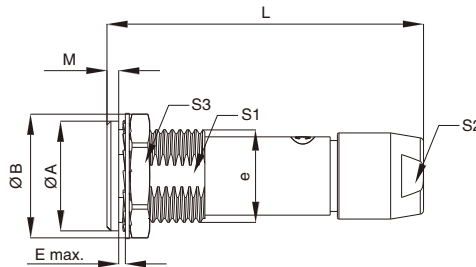
Ambient temperature:	-55℃ ~ +250℃
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel/Cr plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)									
	A	e	M	E	S1	I	H	R	N	K
0B	12	M9*0.6	2.5	6.0	11.0	12.7	6.7	7.62	11.7	13.3
1B	14	M11*0.5	3.5	7.5	13.0	14.0	7.5	7.62	12.6	13.3

B Series, PRG Fixed Straight Socket, Key(G), Cable Collet

- Connector series: PRG
- Contact: Female
- Coding: G(More coding, refer to P33)
- Locking type: Self-locking
- Orientation type: Straight
- Part No.: PRG.XB.XXX.XXX
- Mated with: PSG/PAG/MSG/PLG/PPG series

"X" refers to part number definition



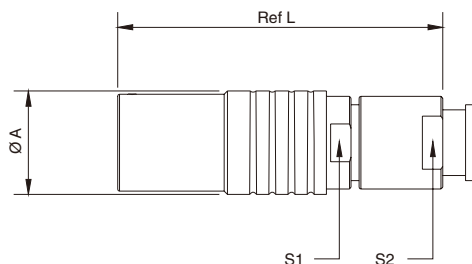
General Information

Ambient temperature:	-55℃ ~ +250℃
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)								
	A	B	e	E	M	L	S1	S2	S3
00	8	10.2	M7*0.5	6.5	1.0	26.0	6.3	5	9
0B	10	12.4	M9*0.6	7.0	1.2	35.5	8.2	7	11
1B	14	15.8	M12*1.0	7.5	1.5	40.5	10.5	9	14
2B	18	19.2	M15*1.0	8.5	1.8	47.0	13.5	12	17
3B	22	25.0	M18*1.0	11.5	2.0	56.0	16.5	14	22

B Series, ASG Free Straight Socket, Nut for Bend Relief, Key(G)

- Connector series: ASG
 - Contact: Female
 - Coding: G(More coding, refer to P33)
 - Locking type: Self-locking
 - Orientation type: Straight
 - Part No.: ASG.XB.XXX.XXXXXXZ
 - Mated with: PSG/PAG/MSG series
- "X" refers to part number definition



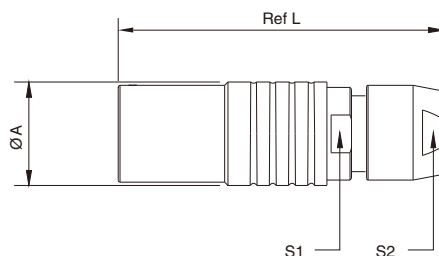
General Information

Ambient temperature:	-55°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)			
	A	L	S1	S2
00	6.8	34.0	5.5	6.0
0B	9.5	34.5	8.0	7.0
1B	12.5	39.5	10.0	9.0
2B	16.5	46.0	13.0	12.0
3B	19.0	54.5	15.0	15.0

B Series, ASG Free Straight Socket, Key(G)

- Connector series: ASG
 - Contact: Female
 - Coding: G(More coding, refer to P33)
 - Locking type: Self-locking
 - Orientation type: Straight
 - Part No.: ASG.XB.XXX.XXXXXX
 - Mated with: PSG/PAG/MSG series
- "X" refers to part number definition



General Information

Ambient temperature:	-55°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Insulation resistance:	≥ 100MΩ
IP rating:	IP 50
Shielding efficiency:	at 10MHz>75dB / at 1GHz>40dB
Salt spray corrosion test:	>144h

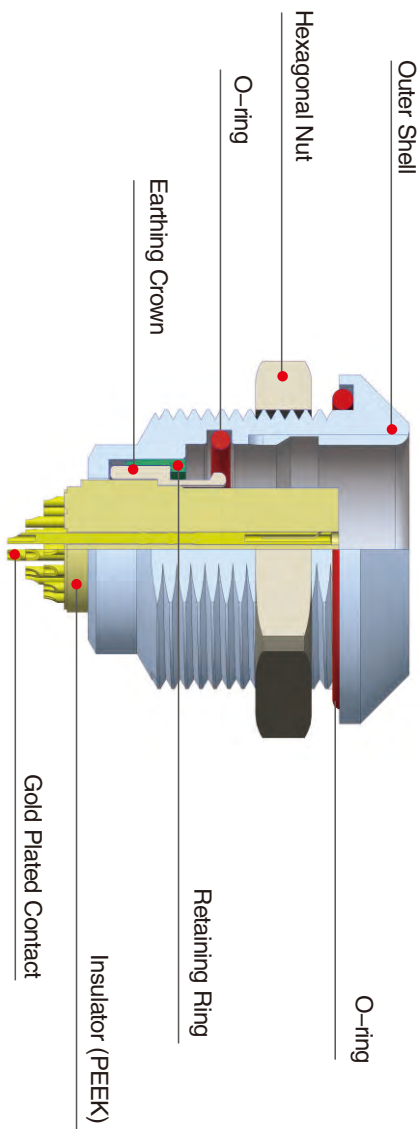
Size	Dimensions(mm)			
	A	L	S1	S2
00	6.8	26.0	5.5	5.0
0B	9.5	35.5	8.0	7.0
1B	12.5	40.5	10.0	9.0
2B	16.5	47.0	13.0	12.0
3B	19.0	56.0	15.0	14.0



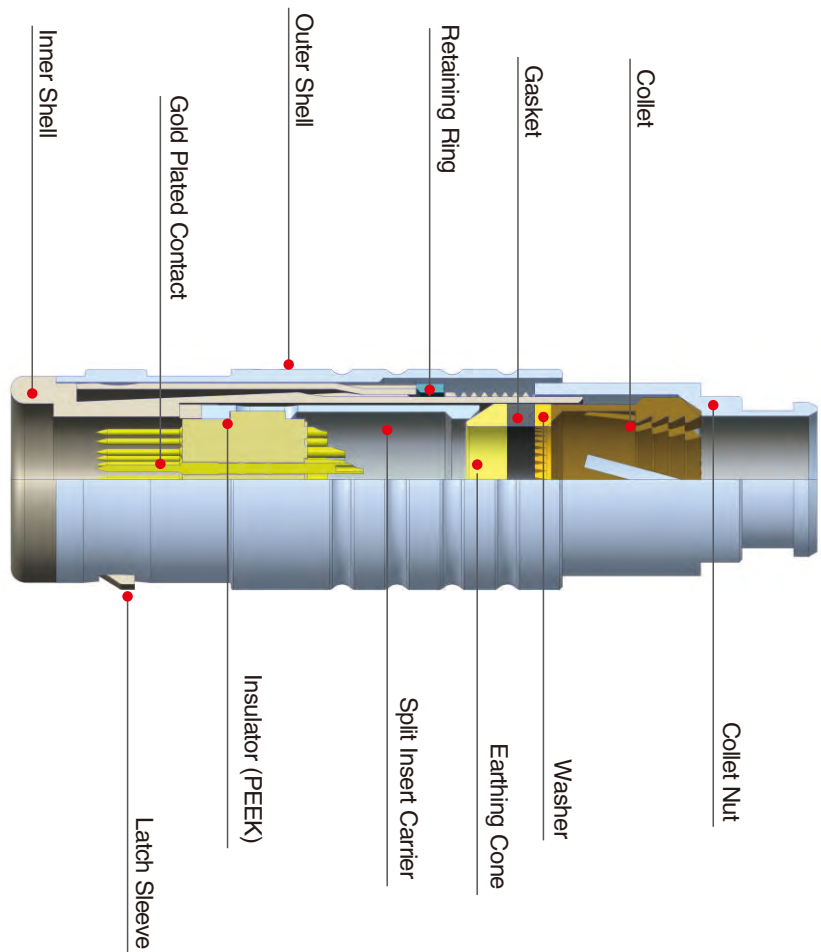
Part Section Showing Internal Components

K SERIES

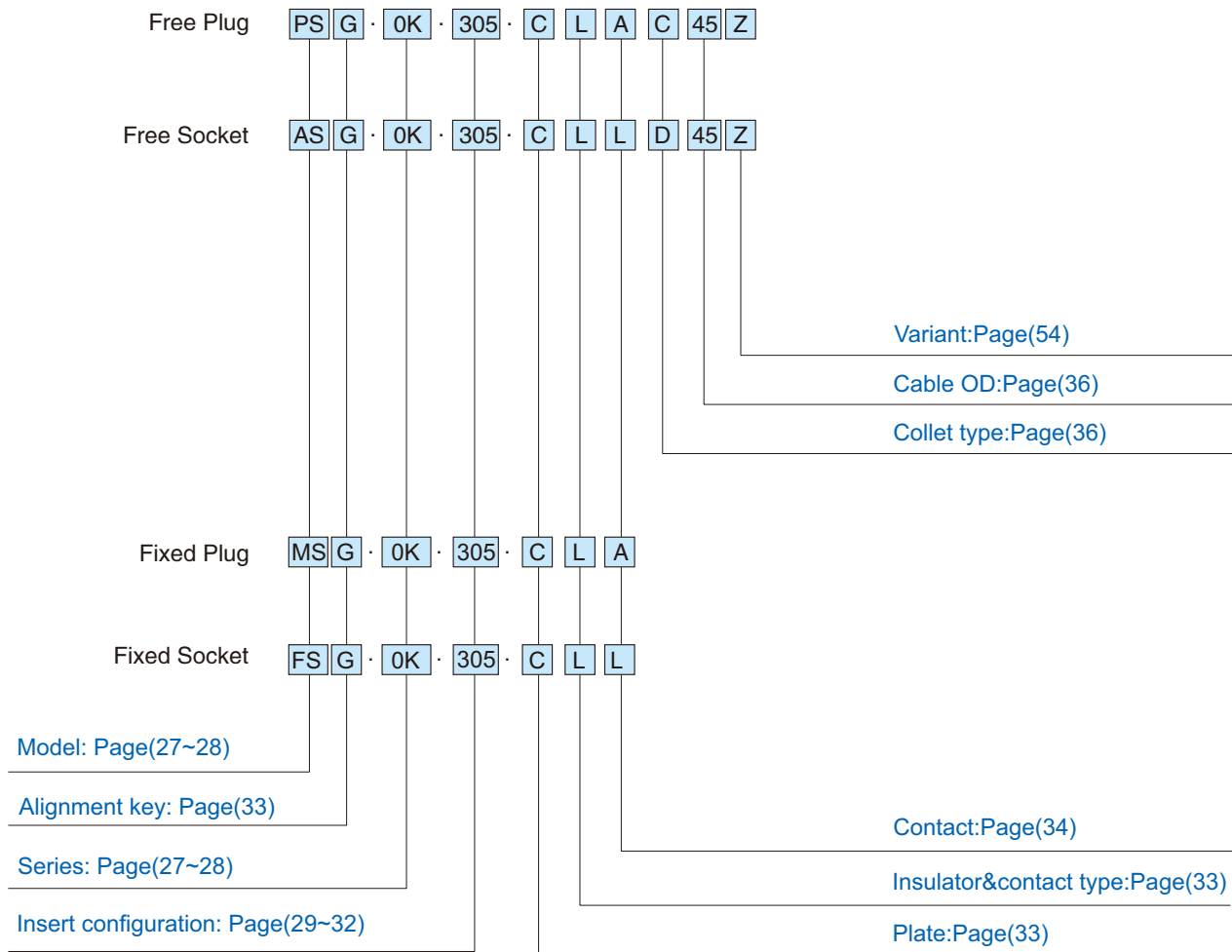
Fixed Socket



Straight Plug



Part Number Definition



Part Number Example

Straight plug with cable collet:

PSG.0K.305.CLAD45=straight plug with key(G) and cable collet,0K Series, multipole type with 5 contacts, outershell in chrome-plated brass, PEEK insulator male solder contacts, D type collet for 4.5mm diameter cable.

Straight plug with cable collet:

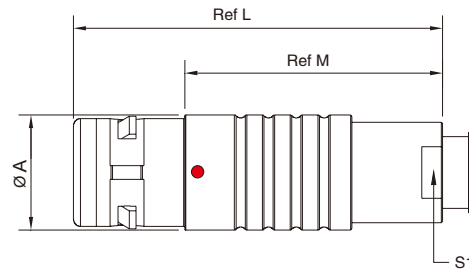
ASG.0K.305.CLLD45Z=free socket with key(G)and cable collet,0K series, multipole type with 5 contacts, outershell in chrome-plated brass, PEEK insulator, female solder contacts, D type collet for 4.5mm diameter cable and nut for fitting a bend relief.

Fixed socket:

FSG.0K.305.CYM=fixed socket, nut fixing, with key(G),0K series, multipole type with 5 contacts, outershell Ichrome-plated brass, PEEK insulator, female crimp contacts.

K Series, PSG Straight Plug, Nut for Bend Relief, Key(G)

- Connector series: PSG
 - Contact: Male
 - Coding: G(More coding, refer to P33)
 - Locking type: Self-locking
 - Orientation type: Straight
 - Part No.: PSG.XK.XXX.XXXXXXZ
 - Mated with: FSG/FAG series
- "X" refers to part number definition



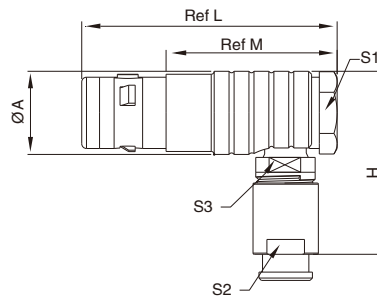
General Information

Ambient temperature:	-55°C ~ +200°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Seal/o-ring	FKM
Insulation resistance:	≥ 100MΩ
IP rating:	IP 68
Shielding efficiency:	at 10MHz>95dB / at 1GHz>80dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)			
	A	L	M	S1
0K	11	34	23	7
1K	13	42	28	9
2K	16	52	36	12
3K	19	60	40	15

K Series, PAG Angled Plug, Nut for Bend Relief, Key(G)

- Connector series: PAG
 - Contact: Male
 - Coding: G(More coding, refer to P33)
 - Locking type: Self-locking
 - Orientation type: Angled
 - Part No.: PAG.XK.XXX.XXXXXXZ
 - Mated with: FSG/FAG series
- "X" refers to part number definition



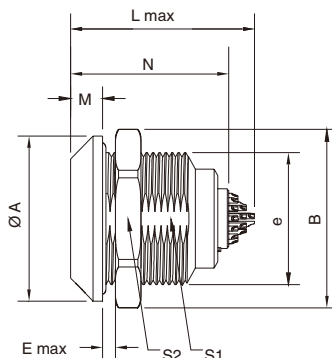
General Information

Ambient temperature:	-55°C ~ +200°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Seal/o-ring	FKM
Insulation resistance:	≥ 100MΩ
IP rating:	IP 68
Shielding efficiency:	at 10MHz>95dB / at 1GHz>80dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)						
	A	L	M	H	S1	S2	S3
0K	11.5	36	23	28.5	10	8	8
1K	14.0	43	28	35.5	12	9	10
2K	17.5	51	36	40	15	12	13
3K	21.0	60	40	47	18	15	15

K Series, FSG Fixed Straight Socket, Key(G)

- Connector series: FSG
- Contact: Female
- Coding: G(More coding, refer to P33)
- Locking type: Self-locking
- Orientation type: Straight
- Part No.: FSG.XK.XXX.XXX
- Mated with: PSG/PAG series
"X" refers to part number definition



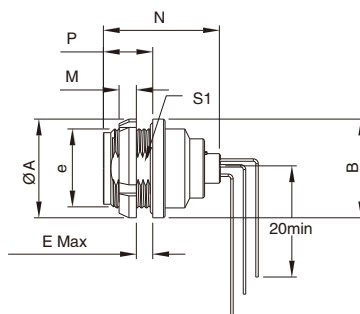
General Information

Ambient temperature:	-55°C ~ +200°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Seal/o-ring	FKM
Insulation resistance:	≥ 100MΩ
IP rating:	IP 68
Shielding efficiency:	at 10MHz>95dB / at 1GHz>80dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)								
	A	B	e	E	L	M	N	S1	S2
0K	18	19.2	M14*1.0	6.0	21.7	4.0	20.1	12.5	17
1K	20	21.5	M16*1.0	9.0	27.0	4.5	25.1	14.5	19
2K	25	27.0	M20*1.0	9.0	30.7	5.0	28.6	18.5	24
3K	31	34.0	M24*1.0	11.0	36.2	6.0	33.6	22.5	30

K Series, FAG Fixed Angled Socket, Key(G), Front fasten

- Connector series: FAG
- Contact: Female
- Coding: G(More coding, refer to P33)
- Locking type: Self-locking
- Orientation type: Angled
- Part No.: FAG.XK.XXX.XXX
- Mated with: PSG/PAG series
"X" refers to part number definition



General Information

Ambient temperature:	-55°C ~ +200°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Connector contacts:	Bronze with gold plated
Coupling nut/screw:	Brass with nickel plated
Housing:	Brass with Cr plated
Seal/o-ring	FKM
Insulation resistance:	≥ 100MΩ
IP rating:	IP 68
Shielding efficiency:	at 10MHz>95dB / at 1GHz>80dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)							
	A	B	e	E	M	N	P	S1
0K	18	18	M14*1.0	3.4	3.5	19.3	7	12.5
1K	20	20	M16*1.0	6.2	3.5	24.3	10	14.5
2K	25	25	M20*1.0	5.0	3.5	26.6	10	18.5
3K	30	31	M24*1.0	7.5	4.5	31.3	12	22.5

Electrical & Mechanical Data (B&K series)

PS · G · 0B · 305 · C · L · A · D · 42

Insert configuration

Size	Part.No	Pin Count	Pin layout		Contact Dim (mm)	Rated current (A)	Contact type			Test voltage(KV rms)			
			Male	Female			Solder	Print	Crimp	Solder contact		Crimp contact	
										Contact and Contact	Contact and Shell	Contact and Contact	Contact and Shell
00	302	02			0.5	5.0	●	●	●	1.00	0.95	1.15	1.20
	303	03			0.5	3.0	●	●	●	0.80	0.95	1.35	1.10
	304	04			0.5	2.0	●	●	●	0.80	0.65	1.05	1.05
	305	05			0.35	1.7	●	—	—	0.70	1.00	—	—
	306	06			0.35	1.5	●	—	—	0.60	0.75	—	—
0B & 0K	302	02			0.9	10.0	●	●	●	1.00	1.05	1.45	1.20
	303	03			0.9	8.0	●	●	●	1.20	0.90	1.70	1.60
	304	04			0.7	7.0	●	●	●	0.85	0.70	1.35	1.10
	305	05			0.7	6.5	●	●	●	1.00	0.70	1.25	1.20
	306	06			0.5	2.5	●	●	○	0.85	0.65	1.40	1.20
	307	07			0.5	2.5	●	●	○	0.80	0.70	1.40	1.20
	309	09			0.5	2.0	●	●	○	0.60	0.50	1.00	0.85

Electrical & Mechanical Data (B&K series)

PS · G · 0B · 305 · C L A D 42

Insert configuration

Size	Part.No	Pin Count	Pin layout		Contact Dim (mm)	Rated current (A)	Contact type			Test voltage(KV rms)			
			Male	Female			Solder	Print	Crimp	Solder contact		Crimp contact	
										Contact and Contact	Contact and Shell	Contact and Contact	Contact and Shell
1B & 1K	302	02			1.3	15.0	●	●	●	1.50	1.35	1.70	1.45
	303	03			1.3	12.0	●	●	●	1.30	1.55	1.60	1.85
	304	04			0.9	10.0	●	●	●	1.35	1.45	1.70	1.80
	305	05			0.9	9.0	●	●	●	1.25	1.15	1.30	1.55
	306	06			0.7	7.0	●	●	●	1.05	1.20	1.35	1.45
	307	07			0.7	7.0	●	●	●	0.95	1.05	1.45	1.45
	308	08			0.7	5.0	●	●	●	0.95	1.15	1.30	1.30
	310	10			0.5	2.5	●	●	○	0.90	1.50	1.20	1.80
	314	14			0.5	2.0	●	●	○	0.80	1.20	0.95	1.60
	316	16			0.5	1.5	●	●	○	0.80	1.25	0.95	1.60

It is proposed according to the following ratio : Operating Voltage (Us) = Test voltage(Ue) / 3

Caution:

For a number of applications, safety requirements for electrical appliances are more severe with regard to operating voltage. In such cases operating voltage is defined according to creepage distance and air clearance) between live parts.

● First Recommendation

○ Special order alternative

Electrical & Mechanical Data (B&K series)

Size	Part.No	Pin Count	Pin layout		Contact Dim (mm)	Rated current (A)	Contact type			Test voltage(KV rms)			
			Male	Female			Solder	Print	Crimp	Solder contact		Crimp contact	
										Contact and Contact	Contact and Shell	Contact and Contact	Contact and Shell
2B 82K	302	02			2.0	30.0	●	○	○	2.10	1.75	2.85	2.70
	303	03			1.6	17.0	●	○	○	2.40	1.85	1.90	1.90
	304	04			1.3	15.0	●	●	●	1.85	1.85	2.20	2.20
	305	05			1.3	14.0	●	●	●	1.75	1.60	2.15	2.15
	306	06			1.3	12.0	●	●	●	1.35	1.45	2.00	2.35
	307	07			1.3	11.0	●	●	●	1.75	1.60	1.95	2.15
	308	08			0.9	10.0	●	●	●	1.50	1.25	1.95	1.95
	310	10			0.9	8.0	●	●	●	1.45	1.30	1.80	2.10
	312	12			0.7	7.0	●	●	●	1.25	1.35	1.65	2.00
	314	14			0.7	6.5	●	●	●	1.15	1.35	1.55	1.95
	316	16			0.7	6.0	●	●	●	0.95	1.25	1.55	1.75
	318	18			0.7	5.5	●	●	●	0.85	1.20	1.45	2.10
	319	19			0.7	5.0	●	●	●	0.95	1.25	1.55	1.65
	326	26			0.5	2.0	●	●	—	0.95	1.30	1.20	1.80
	332	32			0.5	1.5	●	●	—	0.80	1.20	0.95	1.60

It is proposed according to the following ratio : Operating Voltage (Us) = Test voltage(Ue) / 3

Caution:

For a number of applications, safety requirements for electrical appliances are more severe with regard to operating voltage.

In such cases operating voltage is defined according to creepage distance and air clearance) between live parts.

● First Recommendation

○ Special order alternative

Electrical & Mechanical Data (B&K series)

Size	Part.No	Pin Count	Pin layout		Contact Dim (mm)	Rated current (A)	Contact type			Test voltage(KV rms)			
			Male	Female			Solder	Print	Crimp	Solder contact		Crimp contact	
										Contact and Contact	Contact and Shell	Contact and Contact	Contact and Shell
3B & 3K	302	02			3.0	35.0	●	○	●	2.10	1.55	2.30	1.80
	303	03			2.0	25.0	●	●	●	1.90	1.50	3.20	2.65
	304	04			2.0	19.0	●	●	●	1.45	1.25	2.50	2.20
	305	05			1.6	19.0	●	●	●	1.90	1.25	2.40	1.75
	306	06			1.6	17.0	●	●	●	1.60	1.15	1.90	1.80
	307	07			1.6	15.0	●	●	●	1.70	1.25	2.00	2.05
	308	08			1.3	13.0	●	●	●	1.65	1.15	1.85	1.75
	309	09			8 1	1.3 2.0	●	●	●	1.35 1.35	1.05 1.05	1.10 1.10	1.05 1.05
	310	10			1.3	12.0	●	●	●	1.25	0.90	1.50	1.80
	312	12			0.9	9.0	●	●	●	1.45	1.00	1.65	1.85
	314	14			0.9	9.0	●	●	●	1.20	1.20	1.80	1.65
	316	16			0.9	8.0	●	●	●	1.20	0.85	1.80	1.50
	318	18			0.9	7.0	●	●	●	1.20	1.05	1.85	1.60
	320	20			0.7	6.0	●	●	●	1.00	0.90	1.35	1.55
	322	22			0.7	5.5	●	●	●	1.00	0.90	1.70	1.45
	324	24			0.7	4.0	●	●	●	0.95	0.80	1.35	1.35
	326	26			0.7	4.0	●	●	●	0.95	0.70	1.50	1.30
	330	30			0.7	3.5	●	●	●	0.80	0.70	1.35	1.20

It is proposed according to the following ratio : Operating Voltage (Us) = Test voltage(Ue) / 3

Caution:

For a number of applications, safety requirements for electrical appliances are more severe with regard to operating voltage. In such cases operating voltage is defined according to creepage distance and air clearance) between live parts.

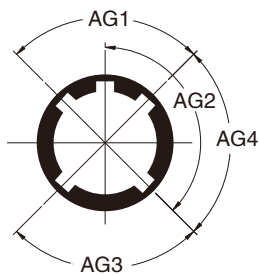
● First Recommendation

○ Special order alternative

Alignment key, Metal material&plate and Insulator&contact type (B&K series)

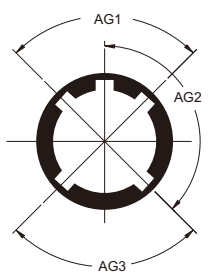
PS G · 0B · 305 · C L A D 42

Alignment key:



Front view of socket

Code	No. of keys	Series								Contact type		Notes
		Angles	00	0B	1B	Angles	2B	3B		Plug	Socket	
G	1	—	0°	0°	0°	—	0°	0°		male	female	●
A	2	AG1	30°	30°	30°	AG1	30°	30°		male	female	●
B	2		60°	60°	60°		45°	45°		male	female	●
C	2		—	90°	90°		60°	60°		male	female	●
D	2	AG2	—	135°	135°	AG3	95°	95°		male	female	○
E	2		—	145°	145°		120°	120°		male	female	○
F	2		—	155°	155°		145°	145°		male	female	○
J	2	AG3	45°	45°	45°	AG1	37.5°	37.5°		female	male	●
K	2		—	70°	70°		52.5°	52.5°		female	male	○
L	2		—	80°	80°		70°	70°		female	male	○
M	2	AG4	—	110°	—	—	—	—		female	male	○
Y	3	—	—	—	—	AG2	112.5°	126°		male	female	●
		—	—	—	—	AG3	100°	102°				



Front view of socket

Code	No. of keys	Angles	Series				Contact type		Notes
			0K	1K	2K	3K	Plug	Socket	
G	1		0°	0°	0°	0°	male	female	●
A	2	AG1	30°	30°	30°	30°	male	female	●
B	2		45°	45°	45°	45°	male	female	●
C	2		60°	60°	60°	60°	male	female	●
D	2	AG3	95°	95°	95°	95°	male	female	○
E	2	AG2	120°	120°	120°	120°	male	female	○
F	2		145°	145°	145°	145°	male	female	○
L	2	AG3	75°	75°	75°	75°	female	male	●

Metal material&plate:

Refrence	Out shell+collet nut		Latch sleeve+earth crown		Other metallic components		Remarks	Notes
	Material	Surf.treatment	Material	Surf.treatment	Material	Surf.treatment		
C	Brass	Chrome	Brass-bronze	Nickel	Brass	Nickel		●
N	Brass	Nickel	Brass-bronze	Nickel	Brass	Nickel		○
K	Brass	Black Chrome	Brass-bronze	Nickel	Brass	Nickel		●
S	Stainless steel	—	Brass-bronze	Nickel	Brass	Nickel		●
P	PSU	—	Brass-bronze	Nickel	Brass	Nickel	Available for some parts of B series	●
H	PPS/Brass	—/Nickel	Brass-bronze	Nickel	Brass	Nickel	Only for elbow sockets (B series)	●

- First Recommendation
- Special order alternative

Insulator&contact type

	Y	L
Insulator material	PEEK	PEEK
Contact type	Crimp	Solder or print

Contact type (B&K series)

PS · G · 0B · 305 · C L A D 42

Contacts reference for plugs free or fixed sockets

Contact type	Reference		Contact (mm)		Conductor Size					
					Solid		Stranded			
	Male	Female	Pin OD	Wire OD	AWG max.	Section max. (mm ²)	AWG		Section (mm ²)	
Solder	A	L	0.5	0.4	28	0.09	—	30	—	0.05
			0.5	0.45	28	0.09	—	28	—	0.09
			0.7	0.8	22	0.34	—	22	—	0.34
			0.9	0.8	22	0.34	—	22	—	0.34
			1.3	1.0	20	0.50	—	20	—	0.50
			1.6	1.4	16	1.00	—	18	—	1.00
			2.0	1.8	14	1.50	—	16	—	1.50
			3.0	2.7	10	4.00	—	12	—	4.00
Crimp	C	M	0.5	0.45	—	—	32	28	0.035	0.09
	C	M	0.7	0.80	—	—	26	22	0.140	0.34
	B	P	0.7	0.45	—	—	32	28	0.035	0.09
	C	M	0.9	1.10	—	—	24	20	0.250	0.50
	B	P	0.9	0.80	—	—	26	22	0.140	0.34
	G	U	0.9	0.45	—	—	32	28	0.035	0.09
	C	M	1.3	1.40	—	—	20	18	0.500	1.00
	B	P	1.3	1.10	—	—	24	20	0.250	0.50
	G	U	1.3	0.80	—	—	26	22	0.140	0.34
	C	M	1.6	1.90	—	—	18	14	1.000	1.50
	B	P	1.6	1.40	—	—	22	18	0.340	1.00
	C	M	2.0	2.40	—	—	16	12	1.500	2.50
	B	P	2.0	1.90	—	—	18	14	1.000	1.50
	C	M	3.0	2.90	—	—	14	10	2.500	4.00
Print	D	N								
Print Angled	W	V								

Collet type (B series)

PS · G · 0B · 305 · C L A D 42

D type



M type



Collet Type Cable OD

Series	Reference		Collet ID		Cable OD	
	Type	Code	A	B	max.	min.
00	D	17	1.7	—	1.6	1.1
	D	22	2.2	—	2.1	1.6
	D	27	2.7	—	2.6	2.1
	D	30	3.1	2.8	3.0	2.5
	D	35	3.5	2.8	3.4	2.9
0B	D	21	2.1	—	2.0	1.5
	D	31	3.1	—	3.0	2.1
	D	42	4.2	—	4.0	3.1
	D	52	5.2	4.7	5.0	4.1
	D	56	5.6	4.7	5.5	5.1 ①
1B	M	27	2.7	—	2.6	2.2
	M	31	3.1	—	3.0	2.6
	D	42	4.2	—	4.0	3.1
	D	52	5.2	—	5.0	4.1
	D	62	6.2	—	6.0	5.1
	D	72	7.2	6.7	7.0	6.1
	D	76	7.6	6.7	7.5	7.1 ①

Series	Reference		Collet ID		Cable OD	
	Type	Code	A	B	max.	min.
2B	M	21	2.1	—	2.0	1.5
	M	31	3.1	—	3.0	2.1
	M	42	4.2	—	4.0	3.1
	D	52	5.2	—	5.0	4.1
	D	62	6.2	—	6.0	5.1
	D	72	7.2	—	7.0	6.1
	D	82	8.2	—	8.0	7.1
	D	92	9.2	8.6	9.0	8.1
	D	99	9.9	8.6	9.7	9.1 ①
	M	52	5.2	—	5.0	4.1
3B	D	62	6.2	—	6.0	5.1
	D	72	7.2	—	7.0	6.1
	D	82	8.2	—	8.0	7.1
	D	92	9.2	—	9.0	8.1
	D	10	10.2	—	10.0	9.1
	D	11	11.2	10.2	11.0	10.1
	D	12	11.9	10.2	11.7	11.1 ①

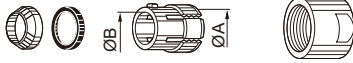
Note: All dimensions are in millimetres.

① These collets cannot be used for connector models with nut for fitting a bend relief.

Collet type (K series)

PS G · OK · 305 · C L A C 45

C type



K type

oversize
cable collet



Collet Type Cable OD

Series	Reference		Collet ID		Cable OD	
	Type	Code	A	B	max.	min.
OK	C	10	1.6	—	1.2	1.0
	C	15	1.6	—	1.5	1.3
	C	20	2.1	—	2.0	1.6
	C	25	3.1	—	2.5	2.1
	C	30	3.1	—	3.0	2.6
	C	35	4.2	4.2	3.5	3.1
	C	40	4.2	4.2	4.0	3.6
	C	45	5.2	5.2	4.5	4.1
	C	50	5.2	5.2	5.0	4.6
1K	C	15	1.6	—	1.5	1.3
	C	20	2.2	—	2.0	1.6
	C	25	3.2	—	2.5	2.1
	C	30	3.2	—	3.0	2.6
	C	35	4.2	—	3.5	3.1
	C	40	4.2	—	4.0	3.6
	C	45	5.2	—	4.5	4.1
	C	50	5.2	—	5.0	4.6
	C	55	6.2	6.2	5.5	5.1
	C	60	6.2	6.2	6.0	5.6
	C	65	7.2	6.7	6.5	6.1
	K	70	7.2	—	7.0	6.6
	K	75	8.2	8.2	7.5	7.1
	K	80	8.2	8.2	8.0	7.6
	K	85	9.2	8.6	8.5	8.1
2K	C	15	2.2	—	1.5	1.3
	C	20	2.2	—	2.0	1.6
	C	25	3.2	—	2.5	2.1
	C	30	3.2	—	3.0	2.6
	C	35	4.2	—	3.5	3.1
	C	40	4.2	—	4.0	3.6
	C	45	5.2	—	4.5	4.1
	C	50	5.2	—	5.0	4.6

Series	Reference		Collet ID		Cable OD	
	Type	Code	A	B	max.	min.
2K	C	55	6.2	—	5.5	5.1
	C	60	6.2	—	6.0	5.6
	C	65	7.2	—	6.5	6.1
	C	70	7.2	—	7.0	6.6
	C	75	8.2	8.2	7.5	7.1
	C	80	8.2	8.2	8.0	7.6
	C	85	9.2	8.6	8.5	8.1
	K	90	9.2	—	9.0	8.6
	K	95	10.2	10.2	9.5	9.1
	K	10	10.2	10.2	10.0	9.6
	K	11	11.2	10.6	10.5	10.1
3K	C	30	3.2	—	3.0	2.6
	C	35	4.2	—	3.5	3.1
	C	40	4.2	—	4.0	3.6
	C	45	5.2	—	4.5	4.1
	C	50	5.2	—	5.0	4.6
	C	55	6.2	—	5.5	5.1
	C	60	6.2	—	6.0	5.6
	C	65	7.2	—	6.5	6.1
	C	70	7.2	—	7.0	6.6
	K	75	8.2	—	7.5	7.1
	K	80	8.2	—	8.0	7.6
	K	85	9.2	—	8.5	8.1
	K	90	9.2	—	9.0	8.6
	C	95	10.2	10.2	9.5	9.1
	C	10	10.2	10.2	10.0	9.6
	C	11	11.2	10.6	10.5	10.1
	K	11	12.3	—	12.0	10.6
	K	12	13.8	13.8	12.8	12.1
	K	13	13.8	13.8	13.5	12.9
	K	14	15.3	15.3	14.0	13.6
	K	15	15.3	15.3	15.0	14.1

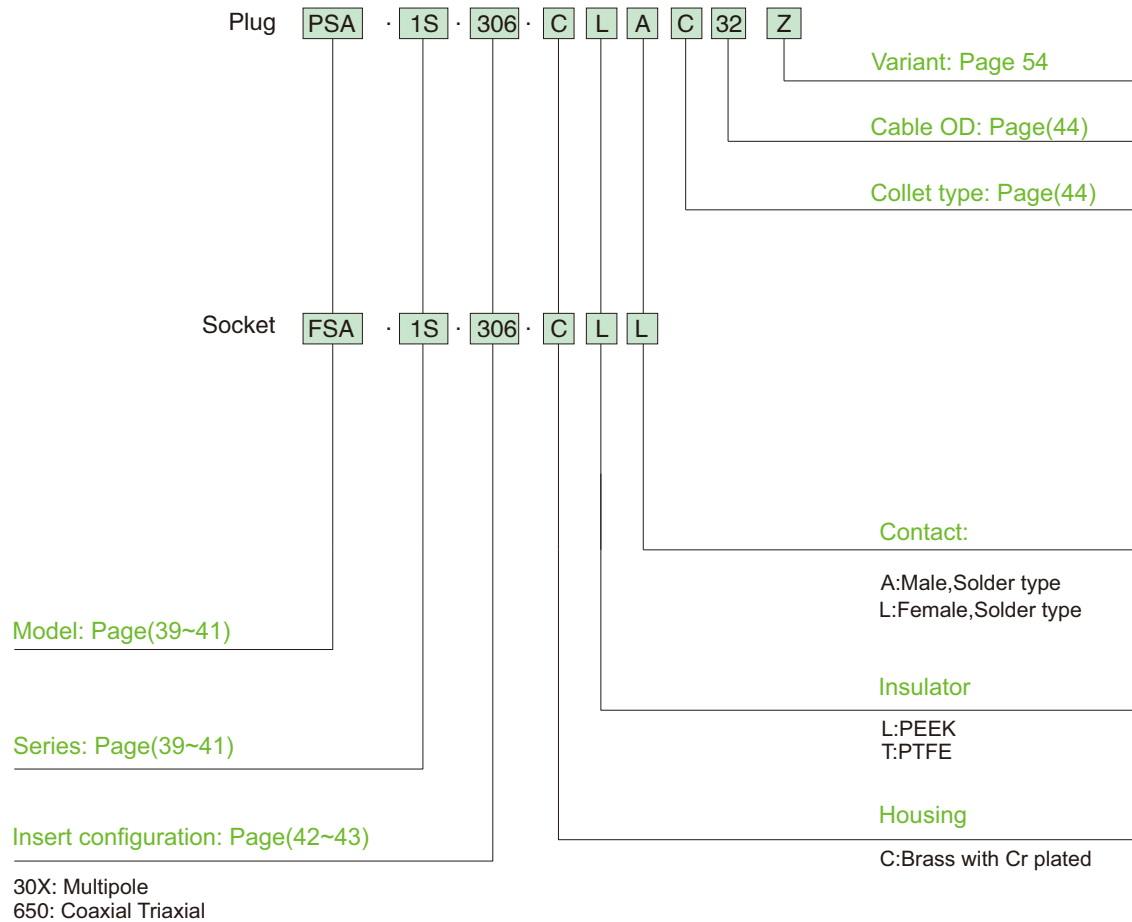
Note: All dimensions are in millimetres.

S Series

(indoor)



Part Number Definition



Part Number Example

Multipole

Straight plug with cable collet:

PSA.1S.306.CLAC32Z = straight plug with cable collet, 1S series, multipole type with 6 contacts, outer shell in chrome plated brass, PEEK insulator, 3 male and 3 female solder contacts, C type collet for a 3.2 mm diameter cable and with nut for bend relief.

Fixed socket:

FSA.1S.306.CLL = fixed socket, nut fixing, 1S series, multipole type with 4 contacts, outer shell in chrome-plated brass, PEEK insulator, 3 female and 3 male solder contacts.

Coaxial Triaxial

Straight plug with cable collet:

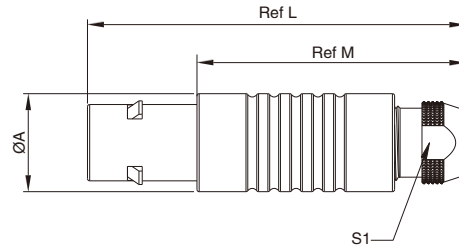
PSA.0S.650.CTACXX32 = straight plug with cable collet, 0S series, triax coaxial type, outershell in chrome plated brass, PTFE insulator, male solder contacts, C type collet for a 3.2 mm diameter cable.

Fixed socket:

FSA.0S.650.CTL = fixed socket, nut fixing, 0S series, triax coaxial type, outershell in chrome-plated brass, PTFE insulator, female solder contacts.

S Series, PSA Straight Plug, Half Moon, Cable collet (Multipole)

- Connector series: PSA
 - Contact: Hermaphroditic
 - Locking type: Self-locking
 - Mounting type: Straight
 - Part No.: PSA.XS.30X. CLACXX
- XX refers to part number definition



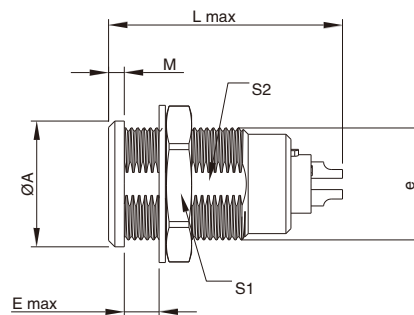
General Information

Ambient temperature:	-55°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Housing:	Brass with Cr plated
Connector contacts:	Brass with gold plated
Insulation resistance:	≥ 100 MΩ
IP rating:	IP50
Shielding efficiency:	at 10MHz>95dB / at 1GHz>80dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)			
	A	L	M	S1
0S	9.0	34.5	24.5	6.5
1S	12.0	42.5	31.5	8.5
2S	14.8	52.0	40.0	11.0

S Series, FSA Fixed Socket, Half Moon, Nut Fixing (Multipole)

- Connector series: FSA
 - Contact: Hermaphroditic
 - Locking type: Self-locking
 - Mounting type: Straight
 - Part No.: FSA.XS.30X. CLL
- X refers to part number definition



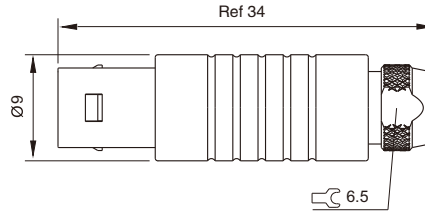
General Information

Ambient temperature:	-50°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PEEK
Housing:	Brass with Cr plated
Connector contacts:	Brass with gold plated
Insulation resistance:	≥ 100 MΩ
IP rating:	IP50
Shielding efficiency:	at 10MHz>95dB / at 1GHz>80dB
Salt spray corrosion test:	>144h

Size	Dimensions(mm)					
	A	M	S1	S2	e	E
0S	10.0	1.2	11.0	8.2	M9*0.6	7.0
1S	14.0	1.5	14.0	10.5	M12*1.0	7.5
2S	18.0	1.8	17.0	13.5	M15*1.0	8.5

0S Series, PSA Straight Plug, Coaxial Triaxial

- Connector series: 0S
- Contact: Male
- Locking type: Self-locking
- Mounting type: Straight
- Part No.: PSA.0S.650.CTACXX
XX refers to cable OD specification
(see table lower right corner)



General Information

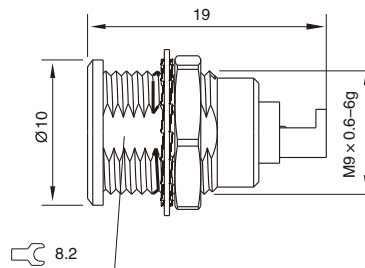
Ambient temperature:	-50°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PTFE
Housing:	Brass with Cr plated
Connector contacts:	Brass with gold plated
Insulation resistance:	≥ 100 MΩ
Impedance:	50Ω
IP rating:	IP68
VSWR	1.01+0.17f(GHz)

Code	Cable OD	
	max.	min.
17	1.6	1.3
22	2.1	1.7
27	2.6	2.2
32	3.1	2.7

Code	Cable OD	
	max.	min.
37	3.6	3.0
42	4.1	3.3
44	4.3	3.5

0S Series, FSA Fixed Straight socket ,Coaxial Triaxial

- Connector series: 0S
- Contact: Female
- Locking type: Push-Pull Self-locking
- Mounting type: Straight
- Part No.: FSA.0S.650.CTL



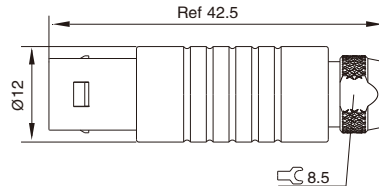
General Information

Ambient temperature:	-50°C ~ +250°C
Mating endurance:	>5000 cycles
Insulator:	PTFE
Housing:	Brass with Cr plated
Connector contacts:	Brass with gold plated
Insulation resistance:	≥ 100 MΩ
Impedance:	50Ω
IP rating:	IP68
VSWR	1.01+0.17f(GHz)

1S Series, PSA Straight Plug, Coaxial Triaxial

- Connector series: 1S
- Contact: Male
- Locking type: Push-Pull Self-locking
- Mounting type: Straight
- Part No.: PSA.1S.650.CTACXX

XX refers to cable OD specification
(see table lower right corner)



General Information

Ambient temperature:	-50℃ ~ +250℃
Mating endurance:	>5000 cycles
Insulator:	PTFE
Housing:	Brass with Cr plated
Connector contacts:	Brass with gold plated
Insulation resistance:	≥ 100 MΩ
Impedance:	50Ω
IP rating:	IP68
VSWR	1.01+0.17f(GHz)

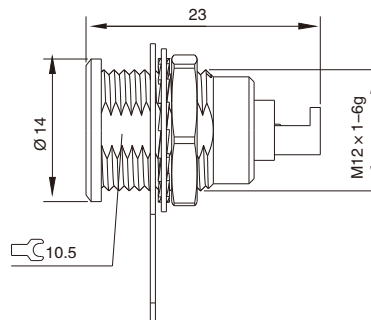
Cable OD

Code	Cable OD	
	max.	min.
17	1.6	1.3
22	2.1	1.7
27	2.6	2.2
32	3.1	2.6
37	3.6	2.7
42	4.1	3.3

Code	Cable OD	
	max.	min.
47	4.6	3.8
52	5.1	4.3
57	5.6	4.8
62	6.1	5.3
66	6.5	5.9
68	6.7	6.0

1S Series, FSA Fixed Straight socket ,Coaxial Triaxial

- Connector series: 1S
- Contact: Female
- Locking type: Push-Pull Self-locking
- Mounting type: Straight
- Part No.: FSA.1S.650.CTL



General Information

Ambient temperature:	-50℃ ~ +250℃
Mating endurance:	>5000 cycles
Insulator:	PTFE
Housing:	Brass with Cr plated
Connector contacts:	Brass with gold plated
Insulation resistance:	≥ 100 MΩ
Impedance:	50Ω
IP rating:	IP68
VSWR	1.01+0.17f(GHz)

Electrical & Mechanical Data (Multipole)

PSA · 1S · 306 · C L A C 32 Z

Insert configuration

Size	Part.No	Pin Count	Pin layout		Contact Dim (mm)	Rated current (A)	Contact type	Test voltage (KV rms)
			Male	Female				
0S	302	02			0.9	10	Solder	1.1
	303	03			0.7	7	Solder	1.0
	304	04			0.7	7	Solder	1.0
1S	302	02			1.3	15	Solder	1.2
	303	03			0.9	10	Solder	1.2
	304	04			0.9	10	Solder	1.2
	305	05			0.9 0.7	10 7	Solder	1.5 1.5
	306	06			0.7	7	Solder	1.2
2S	302	02			1.6	20	Solder	1.7
	303	03			1.3	15	Solder	1.5
	304	04			1.3	15	Solder	1.7
	305	05			1.3	13	Solder	1.5
	306	06			1.3	12	Solder	1.5
	307	07			1.3 0.9	12 9	Solder	0.8 0.8
	308	08			0.9	9	Solder	0.8
	310	10			0.9	7	Solder	0.8

It is proposed according to the following ratio : Operating Voltage (Us) = Test voltage(Ue) / 3

Caution:

For a number of applications, safety requirements for electrical appliances are more severe with regard to operating voltage.

In such cases operating voltage is defined according to (creepage distance and air clearance) between live parts.

Electrical & Mechanical Data (Coaxial Triaxial)

PSA · 1S · 650 · C L A C 32 Z

Insert configuration

Size	Part.No	Pin Count	Pin layout	Impedance (Ω)	Contact Dim (mm)	Rated current (A)	VSWR (GHz)	Test voltage (KV rms)
0S	650	01		50	0.9	6	1.03+0.34f	1.0
1S	650	01		50	0.9	6	1.01+0.17f	1.0

Contact type (S series)

PSA · 1S · 306 · C L A C 32 Z

Contacts reference for plugs free or fixed sockets

Contact type	Reference		Contact (mm)		Conductor Size					
					Solid		Stranded			
	Male	Female	Pin OD	Wire OD	AWG max.	Section max. (mm ²)	AWG		Section (mm ²)	
Solder	A	L	0.7	0.60	24	0.25	—	26	—	0.14
			0.9	0.80	22	0.34	—	22	—	0.34
			1.3	1.00	20	0.50	—	20	—	0.50
			1.6	1.40	16	1.00	—	18	—	1.00
			2.0	1.80	14	1.50	—	16	—	1.50
			3.0	2.70	10	4.00	—	12	—	4.00
			4.0	3.70	10	6.00	—	10	—	6.00
			5.0	5.20	—	—	—	8	—	10.00
			6.0	5.20	—	—	—	8	—	10.00
			8.0	7.00	—	—	—	4	—	21.00
			12.0	11.50	—	—	—	0	—	50.00

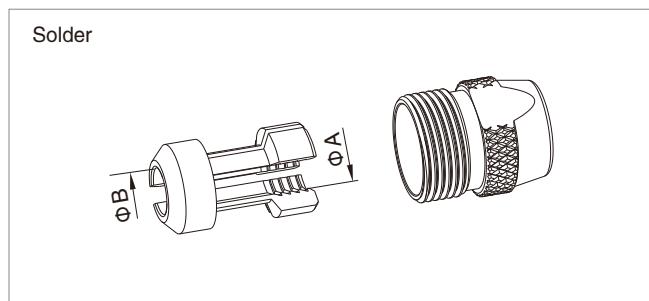
Collet type (S series)

PSA · 1S · 306 · C L A C 32 Z

↑
Collet Type

↑
Cable OD

Suitable for S series (Coaxial Triaxial / Multipole) Collet Type C



Series	Reference		Collet ID		Cable OD	
	Type	Code	A	B	max.	min.
0S	C	22	2.2	–	2.1	1.7
	C	32	3.2	–	3.1	2.1
	C	37	3.7	–	3.6	3.1
	C	44	4.4	3.7	4.3	3.6
1S	C	22	2.2	–	2.1	1.7
	C	32	3.2	–	3.1	2.1
	C	42	4.2	–	4.1	3.1
	C	52	5.2	–	5.1	4.1
	C	57	5.7	5.2	5.6	5.1
	C	62	6.2	5.2	6.1	5.6
2S	C	27	2.7	–	2.6	2.2
	C	32	3.2	–	3.1	2.6
	C	42	4.2	–	4.1	3.1
	C	52	5.2	–	5.1	4.1
	C	62	6.2	–	6.1	5.1
	C	72	7.2	6.7	7.1	6.1
	C	82	8.2	6.7	8.1	7.1
	C	87	8.7	6.7	8.6	8.1

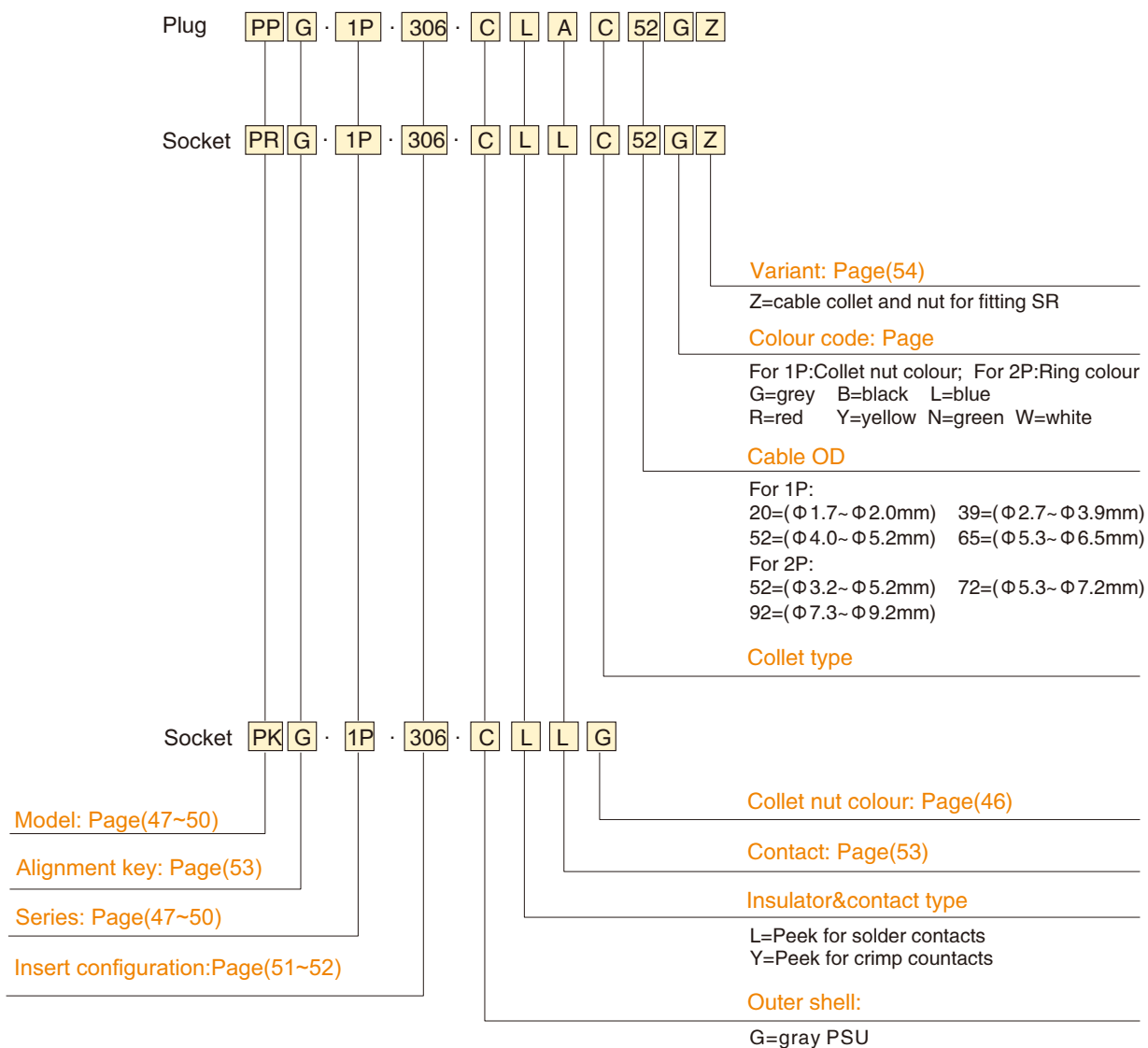
Note: All unit sizes are in mm.

P Series

(indoor)



Plastic Series Part Number Definition



■ Part Number Example

Straight plug with cable collet:

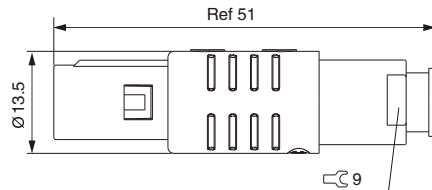
PPG.1P.306.CLAD52=straighet plug with key(G) and cable collet,1P Series, ultipole type with 6 contacts,outershell grey PSU, PEEK insulator male solder contacts, collet for 5.2mm diameter cable.

Fixed socket:

PKG.1P.306.CLLG=fixed socket, nut fixing, with key(G),1P series, multiple type with 6 contacts, outer shell grey PSU,PEEK extended insulator, female solder contacts, with grey collet nut.

1P Series, PFG Straight Plug, Waterproof, Nut for Bend Relief, Key(G)

- Connector series: 1P
 - Contact: Male
 - Coding: G
 - Locking type: Self-locking
 - Mounting type: Straight
 - Part No.: PFG.1P.XXX.GLACXXGZ
 - Mated with PNG seires
- X refers to part number definition

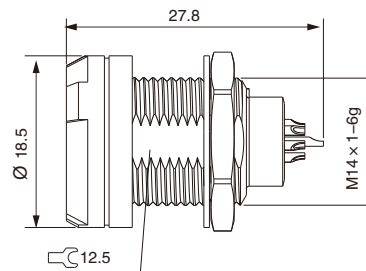


General Information

Ambient temperature:	-50℃ ~ +150℃
Mating endurance:	>2000
Insulator:	PEEK
Coupling nut/screw:	PSU
Housing:	PSU
Connector contacts:	Brass with gold plated
Insulation resistance:	≥ 100 MΩ
IP rating:	IP64

1P Series, PNG Fixed Straight Socket, Waterproof, Key(G)

- Connector series: 1P
 - Contact: Female
 - Coding: G
 - Locking type: Self-locking
 - Mounting type: Straight
 - Part No.: PNG.1P.XXX.GLLG
 - Mated with PFG seires
- X refers to part number definition

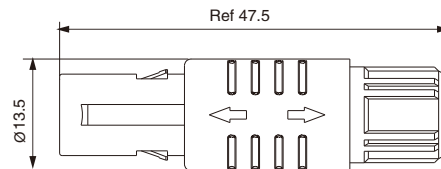


General Information

Ambient temperature:	-50℃ ~ +150℃
Mating endurance:	>2000
Insulator:	PEEK
Coupling nut:	Brass with Cr plated
Housing:	PSU
Connector contacts:	Bronze with gold plated
Insulation resistance:	≥ 100 MΩ
IP rating:	IP64

1P Series, PPG Straight Plug, Key(G)

- Connector series: 1P
- Contact: Male
- Coding: G
- Locking type: Self-locking
- Mounting type: Straight
- Part No.: PPG.1P.XXX.GLACXXG
- Mated with PKG seires
X refers to part number definition

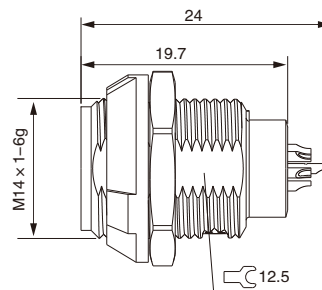


General Information

Ambient temperature:	-50°C ~ +150°C
Mating endurance:	>2000
Insulator:	PEEK
Coupling nut/screw:	PSU
Housing:	PSU
Connector contacts:	Brass with gold plated
Insulation resistance:	≥ 100 MΩ
IP rating:	IP50

1P Series, PKG Fixed Straight Socket, Key(G)

- Connector series: 1P
- Contact: Female
- Coding: G
- Locking type: Self-locking
- Mounting type: Straight
- Part No: PKG.1P.XXX.GLLG
- Mated with PPG seires
X refers to part number definition

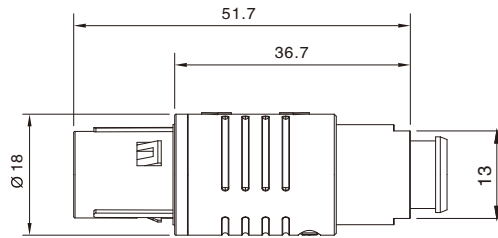


General Information

Ambient temperature:	-50°C ~ +150°C
Mating endurance:	>2000
Insulator:	PEEK
Coupling nut:	Brass with Cr plated
Housing:	PSU
Connector contacts:	Bronze with gold plated
Insulation resistance:	≥ 100 MΩ
IP rating:	IP64

2P Series, PFB Straight Plug, Waterproof, Nut for Bend Relief, Key(B)

- Connector series: 2P
 - Contact: Male
 - Coding: B
 - Locking type: Self-locking
 - Mounting type: Straight
 - Part No.: PFB.2P.XXX.GLACXXGZ
 - Mated with PNB seires
- X refers to part number definition

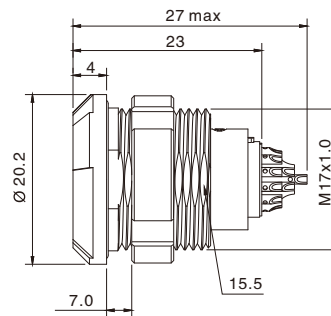


General Information

Ambient temperature:	-50℃ ~ +150℃
Mating endurance:	>2000
Insulator:	PEEK
Coupling nut/screw:	PSU
Housing:	PSU
Connector contacts:	Brass with gold plated
Insulation resistance:	≥ 100 MΩ
IP rating:	IP66

2P Series, PNB Fixed Straight Socket, Waterproof, Key(B)

- Connector series: 2P
 - Contact: Female
 - Coding: B
 - Locking type: Self-locking
 - Mounting type: Straight
 - Part No.: PNB.2P.XXX.GLLG
 - Mated with PFB seires
- X refers to part number definition

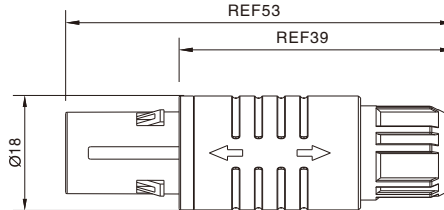


General Information

Ambient temperature:	-50℃ ~ +150℃
Mating endurance:	>2000
Insulator:	PEEK
Coupling nut/screw:	PSU
Housing:	PSU
Connector contacts:	Bronze with gold plated
Insulation resistance:	≥100 MΩ
IP rating:	IP66

2P Series, PPB Straight Plug, Key(B)

- Connector series: 2P
 - Contact: Male
 - Coding: B
 - Locking type: Self-locking
 - Mounting type: Straight
 - Part No.: PPB.2P.XXX.GLACXXG
 - Mated with PLB seires
- X refers to part number definition

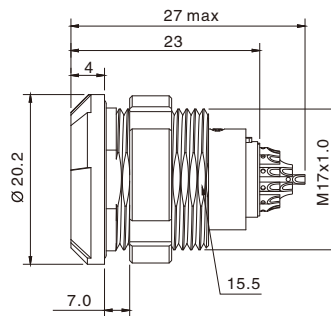


General Information

Ambient temperature:	-50°C ~ +150°C
Mating endurance:	>2000
Insulator:	PEEK
Coupling nut/screw:	PSU
Housing:	PSU
Connector contacts:	Brass with gold plated
Insulation resistance:	≥ 100 MΩ
IP rating:	IP50

2P Series, PLB Fixed Straight Socket, Key(B)

- Connector series: 2P
 - Contact: Female
 - Coding: B
 - Locking type: Self-locking
 - Mounting type: Straight
 - Part No.: PLB.2P.XXX.GLLG
 - Mated with PPB seires
- X refers to part number definition



General Information

Ambient temperature:	-50°C ~ +150°C
Mating endurance:	>2000
Insulator:	PEEK
Coupling nut/screw:	PSU
Housing:	PSU
Connector contacts:	Bronze with gold plated
Insulation resistance:	≥100 MΩ
IP rating:	IP50

Electrical & Mechanical Data

PP G · 1P · 306 · C L A C 52

Insert configuration

Size	Part.No	Pin Count	Pin layout		Contact Dim (mm)	Rated current (A)	Contact type			Test voltage (KV rms)
			Male	Female			Solder	Print	Crimp	
1P	302	02			1.3	10.0	●	●	●	1.20
	304	04			0.9	8.0	●	●	●	1.20
	305	05			0.9	7.0	●	●	●	1.05
	306	06			0.7	6.0	●	●	●	1.05
	307	07			0.7	5.0	●	●	●	1.05
	308	08			0.7	5.0	●	●	●	1.05
	309	09			0.5	3.0	●	●	○	0.85
	310	10			0.5	3.0	●	●	○	0.85
	314	14			0.5	2.0	●	●	○	0.60

It is proposed according to the following ratio : Operating Voltage (Us) = Test voltage(Ue) / 3

Caution:

For a number of applications, safety requirements for electrical appliances are more severe with regard to operating voltage. In such cases operating voltage is defined according to creepage distance and air clearance) between live parts.

- First Recommendation
- Special order alternative

Electrical & Mechanical Data

Size	Part.No	Pin Count	Pin layout		Contact Dim (mm)	Rated current (A)	Contact type			Test voltage (KV rms)
			Male	Female			Solder	Print	Crimp	
2P	302	02			2.0	30.0	●	●	●	2.10
	303	03			1.6	17.0	●	●	●	2.40
	304	04			1.3	15.0	●	●	●	1.85
	305	05			1.3	14.0	●	●	●	1.75
	306	06			1.3	12.0	●	●	●	1.35
	307	07			1.3	11.0	●	●	●	1.75
	308	08			0.9	10.0	●	●	●	1.50
	310	10			0.9	8.0	●	●	●	1.45
	312	12			0.7	7.0	●	●	●	1.25
	316	16			0.7	6.0	●	●	●	0.95
	319	19			0.7	5.0	●	●	●	0.95
	326	26			0.5	2.0	●	●	○	0.95

It is proposed according to the following ratio : Operating Voltage (Us) = Test voltage(Ue) / 3

Caution:

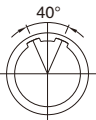
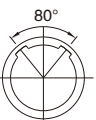
For a number of applications, safety requirements for electrical appliances are more severe with regard to operating voltage. In such cases operating voltage is defined according to creepage distance and air clearance) between live parts.

- First Recommendation
- Special order alternative

Alignment key, Contact type

PK G · 1P · 306 · C L A D 52

Alignment key:
1P series

CODING	Key Count	Graphical
G	1 Key	
A	2 Keys	
B	2 Keys	
C	2 Keys	

2P series

CODING	Key Count	Graphical
B	3 Key	
C	3 Key	
D	3 Key	

PK G · 1P · 306 · C L L G

Contact type:

Type	Plug		Socket	
	Male	Female	Male	Female
solder	A	L	A	L
crimp	C	--	--	M
print	--	--	--	N
Angled print	--	--	V	V

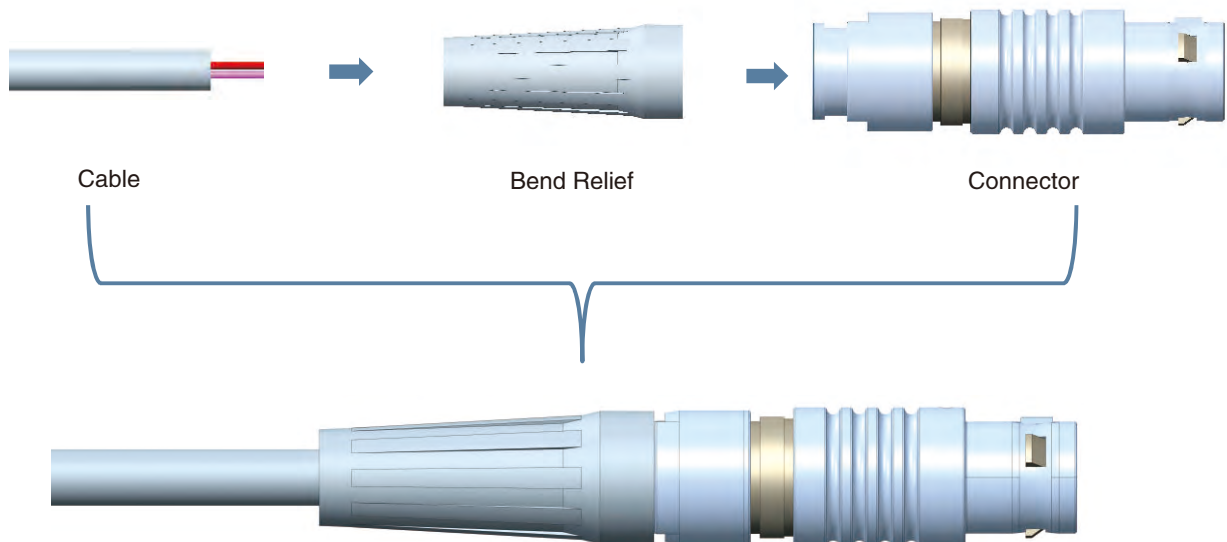
Bend Relief Functional Description

PS G · 0B · 305 · C L A D 42 Z

Null=Not for Fitting Bend Relief

Z=Fitting Bend Relief (Part No. See Page .52)

■ Bend Relief Assembly



Assembly Drawing

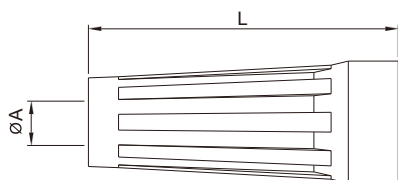
Bend relief made from thermoplastic polyurethane elastomer. Can be fitted over plug and sockets that are supplied with nut for fitting such bend relief. They are available in nine different colours that match with the insulating washers.

■ Main Characteristics

Material: Polyurethane elastomer.

Temperature range in dry atmosphere: -40°C ~ +80°C; 105°C; 200°C.

SR. Bend relief



■ Main characteristics

- Material: TPU
- Temperature range in dry atmosphere: -40°C +80°C

Part number	Dimensions (mm)				Series
	Bend relief		Cable Ø		
	A	L	max.	min.	
SRA.0B.025.G	2.5	24	2.9	2.5	0B
SRA.0B.030.G	3.0	24	3.4	3.0	
SRA.0B.035.G	3.5	24	3.9	3.5	0S
SRA.0B.040.G	4.0	24	4.4	4.0	0K
SRA.0B.045.G	4.5	24	5.2	4.5	
SRA.1B.025.G	2.5	30	2.9	2.5	1B
SRA.1B.030.G	3.0	30	3.4	3.0	
SRA.1B.035.G	3.5	30	3.9	3.5	1S
SRA.1B.040.G	4.0	30	4.4	4.0	
SRA.1B.045.G	4.5	30	4.9	4.5	1K,1P
SRA.1B.054.G	5.4	30	6.0	5.4	
SRA.1B.065.G	6.5	30	7.0	6.5	

Part number	Dimensions (mm)				Series
	Bend relief		Cable ø		
	A	L	max.	min.	
SRA.2B.040.G	4.0	36	4.5	4.0	2B
SRA.2B.045.G	4.5	36	5.0	4.5	
SRA.2B.060.G	6.0	36	6.5	6.0	2K,2P
SRA.2B.070.G	7.0	36	7.7	7.0	
SRA.3B.060.G	6.0	42	6.9	6.0	3B
SRA.3B.070.G	7.0	42	7.9	7.0	3K
SRA.3B.080.G	8.0	42	8.9	8.0	

The last letter «G» of the part number indicates the grey colour of the bend relief. For ordering a bend relief with another colour, see table on page below and replace the letter «G» by the letter of the required colour.

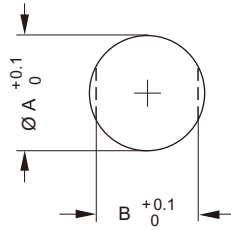
Colour coding

This colour coding table is for (SR) bend relief and plastic collet nut.

	Colours						
	grey	blue	yellow	black	red	green	white
Reference	G	L	Y	B	R	N	W

Panel cut-outs, Mounting nut torque

B series



Panel cut-outs

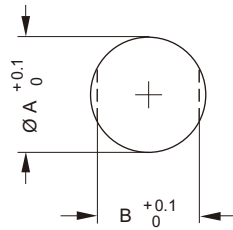
Series	ØA	B
00	7.1	6.4
0B	9.1	8.3
1B	12.1	10.6
2B	15.1	13.6
3B	18.2	16.6

Mounting nut torque

Series	Torque(Nm)
00	1.0
0B	2.5
1B	4.5
2B	6.0
3B	9.0

1N=0.102kg

K series



Panel cut-outs

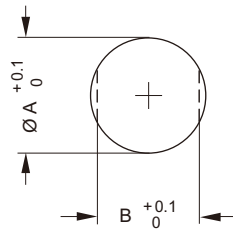
Series	ØA	B
0K	14.1	12.6
1K	16.1	14.6
2K	20.2	18.6
3K	24.2	22.6

Mounting nut torque

Series	Torque(Nm)
0K	5.0
1K	7.0
2K	9.0
3K	12.0

1N=0.102kg

S series



Panel cut-outs

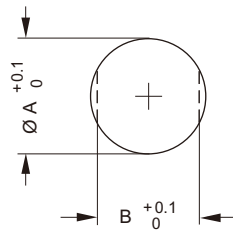
Series	ØA	B
0S	9.1	8.3
1S	12.1	10.6

Mounting nut torque

Series	Torque(Nm)
0S	2.5
1S	4.5

1N=0.102kg

P series



Panel cut-outs

Series	ØA	B
1P	14.1	12.6
2P	17.1	15.6

Mounting nut torque

Series	Torque(Nm)
1P	1.5
2P	0.8

1N=0.102kg

PCB drilling pattern

Fixed socket with straight print contact (B-K series)

302		Dimensions(mm)	
		A	B
		00	0.6 1.2
		0B-0K	0.8 2.2
		1B-1K	0.8 2.8
		2B-2K	0.8 4.4

304		Dimensions(mm)		
		A	B	C
		00	0.6	1.6 45°
		0B-0K	0.6	2.5 45°
		1B-1K	0.8	3.1 45°
		2B-2K	0.8	5.0 45°
		3B-3K	0.8	6.2 45°

306		Dimensions(mm)			
		Series	A	B	C
		0B-0K	0.6	3.0	60°
		1B-1K	0.8	3.7	60°

307		Dimensions(mm)		
		A	B	C
		0B-0K	0.6	3.00 60°
		1B-1K	0.8	3.70 60°
		2B-2K	0.8	5.80 60°
		3B-3K	0.8	7.08 60°

308		Dimensions(mm)			
		Series	A	B	C
		2B-2K	0.8	6.4	45°
		3B-3K	0.8	7.5	45°

310

Series	Dimensions(mm)				
	A	B	C	D	H
1B-1K	0.6	3.95	45°	22°30'	1.4
2B-2K	0.8	6.20	45°	22°30'	2.15
3B-3K	0.8	7.90	45°	22°30'	2.80

314

Series	Dimensions(mm)				
	A	B	C	H	I
1B-1K	0.6	4.4	90°	1.90	1.80
2B-2K	0.8	6.5	90°	2.65	2.65
3B-3K	0.8	8.2	90°	3.40	3.40

303		Dimensions(mm)		
		A	B	C
		00	0.6	1.35 120°
		0B-0K	0.8	2.30 120°
		1B-1K	0.8	3.00 120°
		2B-2K	0.8	4.60 120°
		3B-3K	0.8	5.60 120°

305		Dimensions(mm)		
		A	B	C
		0B-0K	0.6	2.8 72°
		1B-1K	0.8	3.4 72°
		2B-2K	0.8	5.2 72°
		3B-3K	0.8	6.7 72°

306		Dimensions(mm)			
		Series	A	B	C
		2B-2K	0.8	5.6	72°
		3B-3K	0.8	7.1	72°

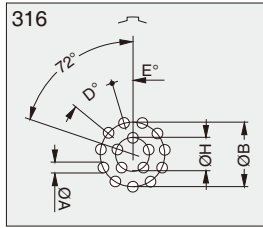
308		Dimensions(mm)		
		A	B	C
		1B-1K	0.8	3.8 51°26'

309		Dimensions(mm)			
		Series	A	B	C
		0B-0K	0.6	3.2	45°
		3B-3K	0.8	7.5	45°

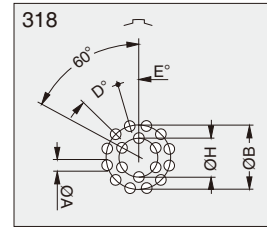
312		Dimensions(mm)				
		A	B	C	D	H
		2B-2K	0.8	6.5	45° 22°30'	2.8
		3B-3K	0.8	8.2	45° 22°30'	3.4

316		Dimensions(mm)				
		A	B	C	D	H
		1B-1K	0.6	4.4	72° 32°44'	2.0

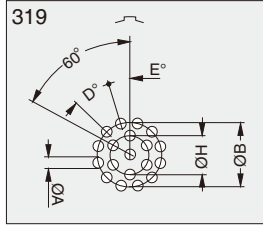
Fixed socket with straight print contact (B-K series)



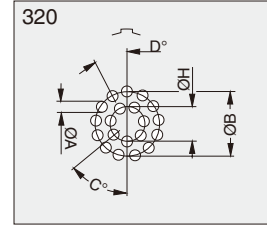
Series	Dimensions(mm)				
	A	B	D	E	H
2B-2K	0.8	6.6	32°44'	16°22'	3.10
3B-3K	0.8	8.4	32°44'	16°22'	3.86



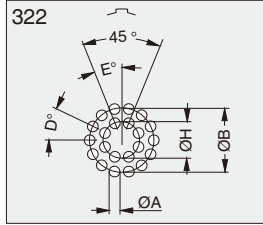
Series	Dimensions(mm)				
	A	B	D	E	H
2B-2K	0.8	6.7	30°	15°	3.50
3B-3K	0.8	8.4	30°	15°	4.34



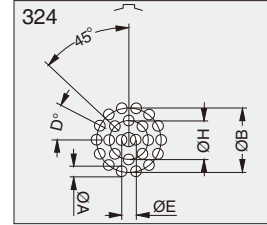
Series	Dimensions(mm)				
	A	B	D	E	H
2B-2K	0.8	6.7	30°	15°	3.5



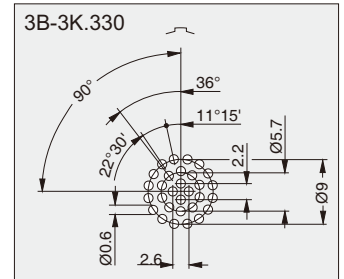
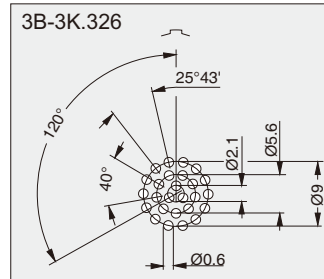
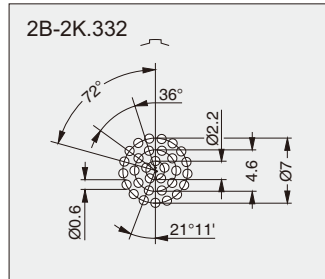
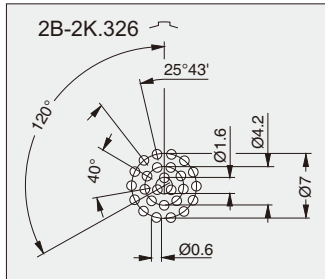
Series	Dimensions(mm)				
	A	B	C	D	H
3B-3K	0.6	8.62	51°26'	27°42'	4.78



Series	Dimensions(mm)				
	A	B	D	E	H
3B-3K	0.6	8.8	25°43'	1.8	5.30

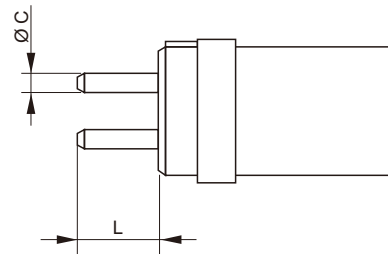


Series	Dimensions(mm)				
	A	B	D	E	H
3B-3K	0.6	8.8	25°43'	1.8	5.30



Length of straight print contacts (for socket)

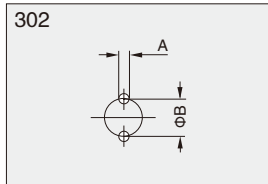
Series	Type		
		Ø C	L
00	302	0.5	3.0
	303	0.5	3.0
	304	0.5	3.0
0B 0K	302/303	0.7	3.2
	304/305	0.5	3.2
	306/307/309	0.5	3.2
1B 1K	302/303/304/305	0.7	3.0
	306/307/308	0.7	3.0
	310/314/316	0.5	4.0
2B 2K	303/304/305/306/307	0.7	3.0
	308/309/310/312/314/316/318	0.7	3.0
	320/322/324/326/330	0.5	5.0
3B 3K	302/303/304/305/306/307	0.7	3.0
	308/310/312/314/316/318/319	0.7	3.0
	326/332	0.5	3.0



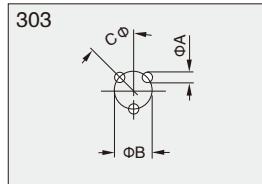
Fixed socket with elbow print contact (B-K series)



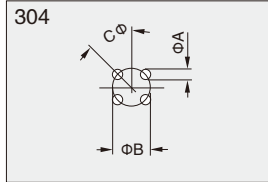
Fixed socket with straight print contact (S series)



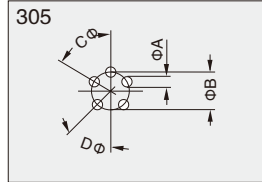
Series	Dimensions(mm)	
	A	B
0S	0.6	2.2
1S	0.8	3.0



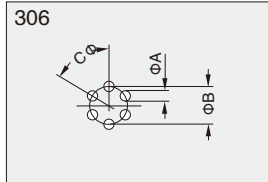
Series	Dimensions(mm)		
	A	B	C
0S	0.6	2.8	45°
1S	0.8	3.5	60°
2S	0.8	5.5	60°



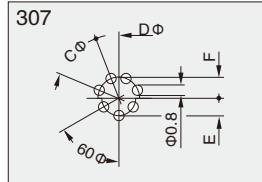
Series	Dimensions(mm)		
	A	B	C
0S	0.6	2.8	45°
1S	0.8	3.5	45°
2S	0.8	5.0	45°



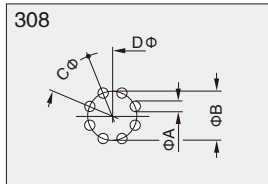
Series	Dimensions(mm)			
	A	B	C	D
1S	0.8	3.5	60°	45°
2S	0.8	5.5	60°	60°



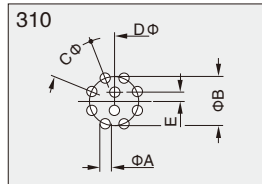
Series	Dimensions(mm)		
	A	B	C
1S	0.8	3.5	60°
2S	0.8	5.5	60°



Series	Dimensions(mm)			
	C	D	E	F
2S	45°	22°30'	2.75	3.25



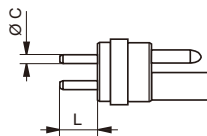
Series	Dimensions(mm)			
	A	B	C	D
2S	0.8	6.5	45°	22°30'



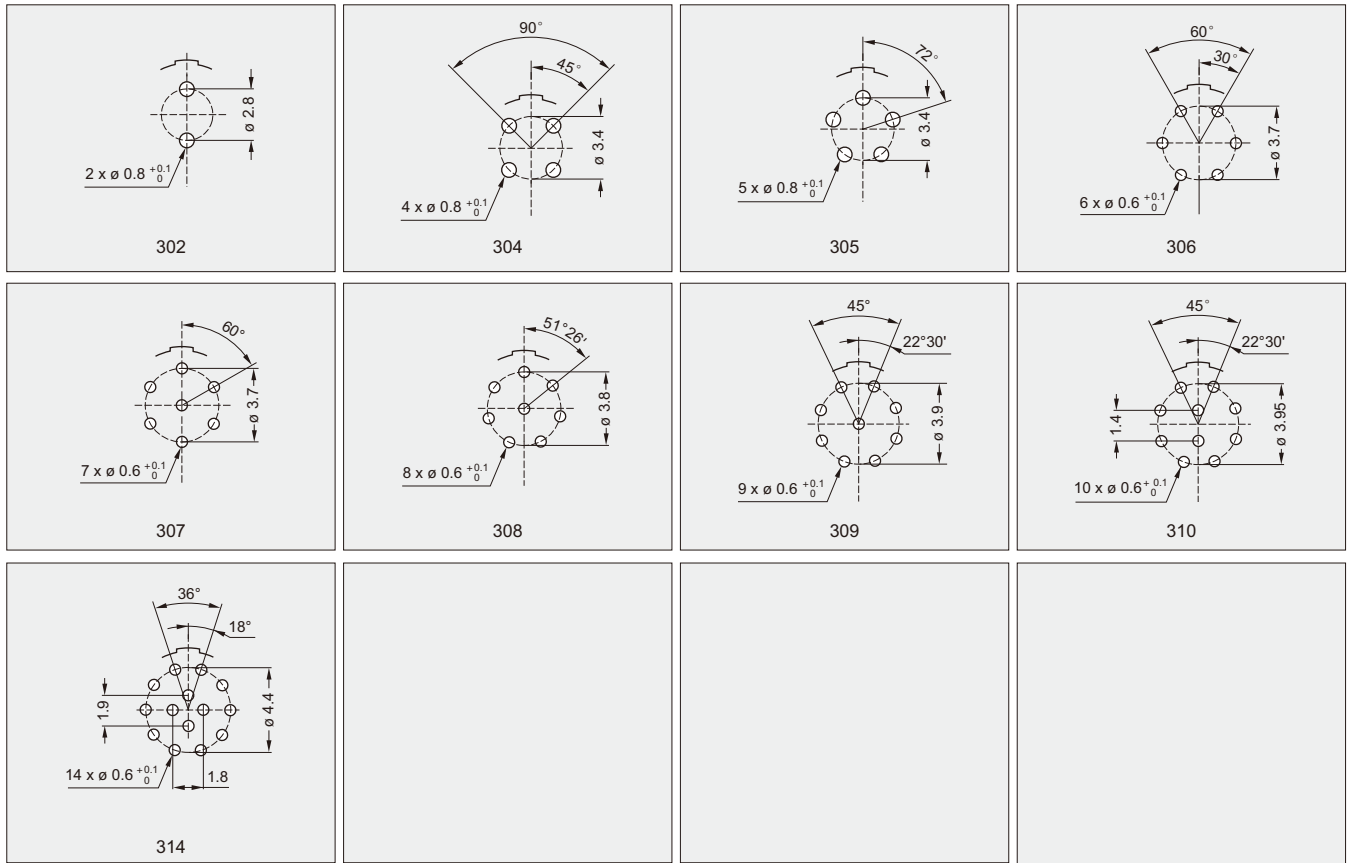
Series	Dimensions(mm)				
	A	B	C	D	E
2S	0.8	6.5	45°	22°30'	1.25

Length of straight print contacts (for socket)

Series	Type	Dim. (mm)	
		Ø C	L
0S	302	0.7	3.0
	303	0.5	3.0
	304	0.5	3.0
1S	302	0.7/1.5	3.0/5.0
	303/304/305	0.7	3.0
	305/306	0.5	3.0
2S	303/304/305	0.7	3.0
	306/307	0.7	3.0
	308/310	0.7	3.0

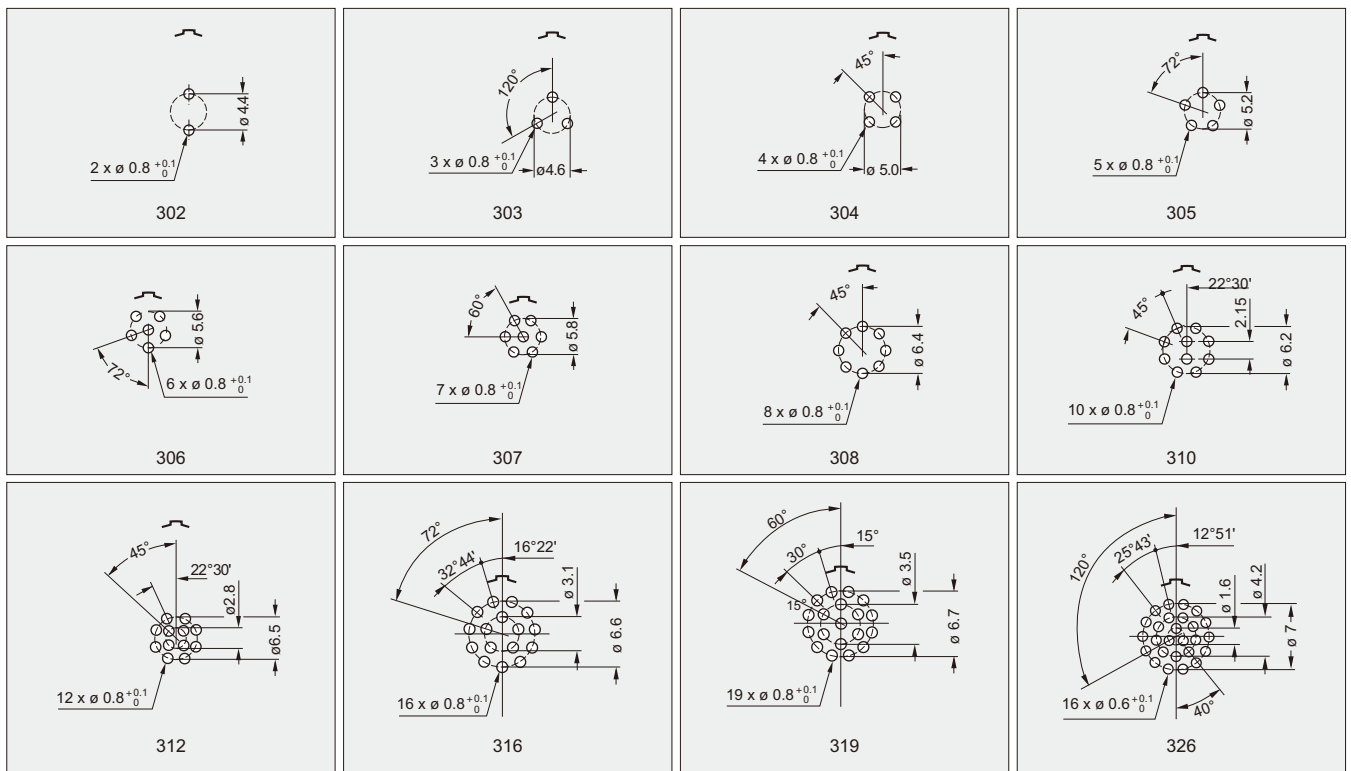


Fixed socket with straight print contact (1P series)



Note: all dimensions are in millimeters

Fixed socket with straight print contact (2P series)

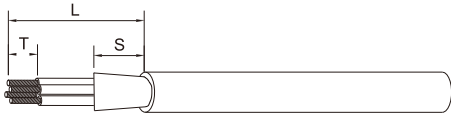


Note: all dimensions are in millimeters

Cable assembly Cable stripping lengths

B series

Series	Pin Count(P/N)	Straight Socket and Plug						90 Right Angled Socket					
		Solder Contacts			Crimp Contacts			Solder Contacts			Crimp Contacts		
		L(mm)	S(mm)	T(mm)	L(mm)	S(mm)	T(mm)	L(mm)	S(mm)	T(mm)	L(mm)	S(mm)	T(mm)
00	302/303/304	7.0	4	2.5	10.0	4	3.0	9.5	4	2.5	12.5	4	3.0
0B ¹⁾	302/303	13.0	7	3.0	17.0	7	4.0	18.0	7	3.0	22.0	7	4.0
	304/305	13.0	7	3.0	17.0	7	4.0	18.0	7	3.0	22.0	7	4.0
	306/307/309	12.5	7	2.5	18.0	7	3.0	19.0	7	2.5	23.0	7	3.0
1B ¹⁾	302/303	14.0	8	3.5	18.0	8	4.0	25.0	8	3.5	28.0	8	4.0
	304/305	14.0	8	3.0	18.0	8	4.0	25.0	8	3.0	28.0	8	4.0
	306/307/308	14.0	8	3.0	18.0	8	4.0	25.0	8	3.0	28.0	8	4.0
	310/314/316	13.5	8	2.5	-	-	-	27.5	8	2.5	-	-	-
2B	302	16.0	9	4.0	22.0	9	5.5	30.0	9	4.0	33.0	9	5.5
	303	16.0	9	3.5	22.0	9	5.5	30.0	9	3.5	33.0	9	5.5
	304/305/306/307	16.0	9	3.5	20.0	9	4.0	29.0	9	3.5	31.0	9	4.0
	308/310	15.0	9	3.0	20.0	9	4.0	28.0	9	3.0	31.0	9	4.0
	312/314/316/318/319	15.0	9	3.0	20.0	9	4.0	28.0	9	3.0	31.0	9	4.0
	326/332	15.0	9	2.5	-	-	-	28.0	9	2.5	-	-	-
3B	302	24.0	10	4.5	28.0	10	5.5	35.0	10	4.5	39.0	10	5.5
	303/304	23.0	10	4.0	27.0	10	5.5	34.0	10	4.0	38.0	10	5.5
	305/306/307	23.0	10	3.5	27.0	10	5.5	34.0	10	3.5	38.0	10	5.5
	308/310	22.0	10	3.5	25.0	10	4.0	33.0	10	3.5	36.0	10	4.0
	309	Ø1.3 Ø2.0	10	3.5 4.0	25.0	10	4.0 5.5	33.0	10	3.5 4.0	36.0	10	4.0 5.5
	312/314/316/318		10	3.0	25.0	10	4.0	32.0	10	3.0	36.0	10	4.0
	320/322/324/326/330	21.0	10	3.0	25.0	10	4.0	32.0	10	3.0	36.0	10	4.0



Note:

1) In 0B and 1B series, <L> and <S> dimensions shall be increased by 2mm for largest collet(D56 in 0B series, D76 in 1B series)

3) the tolerances on these dimensions are. L:±0.5mm, S:±0.5mm, T±0.2mm

2) For the central contacts, the wires shall be reduced by 1.5~2.0mm

S series

Series	Pin Count(P/N)	Straight Socket and Plug						90 Right Angled Socket					
		Solder Contacts			Crimp Contacts			Solder Contacts			Crimp Contacts		
		L(mm)	S(mm)	T(mm)	L(mm)	S(mm)	T(mm)	L(mm)	S(mm)	T(mm)	L(mm)	S(mm)	T(mm)
0S	302	10	5	4.0	15	5	4.0	10	5	4.0	15	5	4.0
	303/304	10	5	4.0	15	5	4.0	10	5	4.0	15	5	4.0
1S	302	13	8	3.0	17	8	4.0	13	8	3.0	17	8	4.0
	303/304	13	8	3.0	17	8	4.0	13	8	3.0	17	8	4.0
	305	13	8	3.0	17	8	4.0	13	8	3.0	17	8	4.0
		13	8	2.5	17	8	4.0	13	8	2.5	17	8	4.0
	306	13	8	2.5	17	8	4.0	13	8	2.5	17	8	4.0
2S	302	18	9	4.5	22	9	5.5	18	9	4.5	22	9	5.5
	303/304/305/306	18	9	4.0	22	9	4.0	18	9	4.0	22	9	4.0
	307	18	9	4.0	22	9	4.0	18	9	4.0	22	9	4.0
		18	9	4.0	22	9	4.0	18	9	4.0	22	9	4.0
	308/310	18	9	4.0	22	9	4.0	18	9	4.0	22	9	4.0

Cable assembly Cable stripping lengths

K series

K series		Straight Socket and Plug						90 Right Angled Socket						
Series	Pin Count(P/N)	Solder Contacts			Crimp Contacts			Solder Contacts			Crimp Contacts			
		L(mm)	S(mm)	T(mm)	L(mm)	S(mm)	T(mm)	L(mm)	S(mm)	T(mm)	L(mm)	S(mm)	T(mm)	
0K	302/303	9.5	6	3.0	12.0	6	4.0	21.0	6	3.0	25.0	6	4.0	
	304/305	9.5	6	3.0	12.0	6	4.0	21.0	6	3.0	25.0	6	4.0	
	306/307/309	9.0	6	2.5	13.0	6	4.0	22.0	6	2.5	26.0	6	4.0	
1K	302/303	10.5	7	3.5	14.5	7	4.0	27.0	7	3.5	31.0	7	4.0	
	304/305	10.5	7	3.0	14.5	7	4.0	27.0	7	3.0	31.0	7	4.0	
	306/307/308	10.5	7	3.0	14.5	7	4.0	27.0	7	3.0	31.0	7	4.0	
	310/314/316	13.0	7	2.5	-	-	-	29.5	7	2.5	-	-	-	
2K	302	16.5	8	4.0	19.5	8	5.5	36.0	8	4.0	39.0	8	5.5	
	303	16.5	8	3.5	19.5	8	5.5	36.0	8	3.5	39.0	8	5.5	
	304/305/306/307	15.5	8	3.5	17.5	8	4.0	35.0	8	3.5	37.0	8	4.0	
	308/310	14.5	8	3.0	17.5	8	4.0	34.0	8	3.0	37.0	8	4.0	
	312/314/316/318/319	14.5	8	3.0	17.5	8	4.0	34.0	8	3.0	37.0	8	4.0	
	326/332	14.5	8	2.5	-	-	-	34.0	8	2.5	-	-	-	
3K	302	19.0	10	4.5	23.0	10	5.5	48.0	10	4.5	53.0	10	5.5	
	303/304	18.0	10	4.0	22.0	10	5.5	48.0	10	4.0	52.0	10	5.5	
	305/306/307	18.0	10	3.5	22.0	10	5.5	48.0	10	3.5	52.0	10	5.5	
	308/310	17.0	10	3.5	20.0	10	4.0	47.0	10	3.5	50.0	10	4.0	
	309	Ø1.3 Ø2.0	17.0	10	3.5 4.0	20.0	10	4.0 5.5	47.0	10	3.5 4.0	50.0	10	4.0 5.5
	312/314/316/318	16.0	10	3.0	20.0	10	4.0	46.0	10	3.0	50.0	10	4.0	
	320/322/324/326/330	16.0	10	3.0	20.0	10	4.0	46.0	10	3.0	50.0	10	4.0	
					Note: For the central contacts, the wires shall be reduced by 1.5~2.5mm The tolerance: L:±0.5mm; S:±0.5mm; T:±0.2mm.									

Note:

For the central contacts, the wires shall be reduced by 1.5~2.5mm

The tolerance:

L:±0.5mm; S:±0.5mm; T:±0.2mm.

P series

Series	Pin Count(P/N)	L(mm)	T(mm)
1P	302	14.0	4.0
	304/305	13.0	3.0
	307/308/309/310/314	12.5	2.5
2P	302	19.0	4.0
	303	19.0	3.5
	304/305/306/307	18.0	3.5
	308/310/312/316/319	17	3.0
	326	17	2.5



Note:

1) For the central contacts, the wires shall be reduced by 1.5~2.0mm

2) the tolerances on these dimensions are. L:±0.5mm, T±0.2mm