

SHENZHEN SHENGHONGYUE TECHNOLOGY CO., LTD.

-Professional Precise Circular Connector Manufacturer & Exporter

PUSH-PULL PLASTIC CONNECTOR CATALOG

P Series-Plastic Push-Pull Connectors for Medical Equipment





Shenzhen Shenghongyue Technology Co., Ltd.

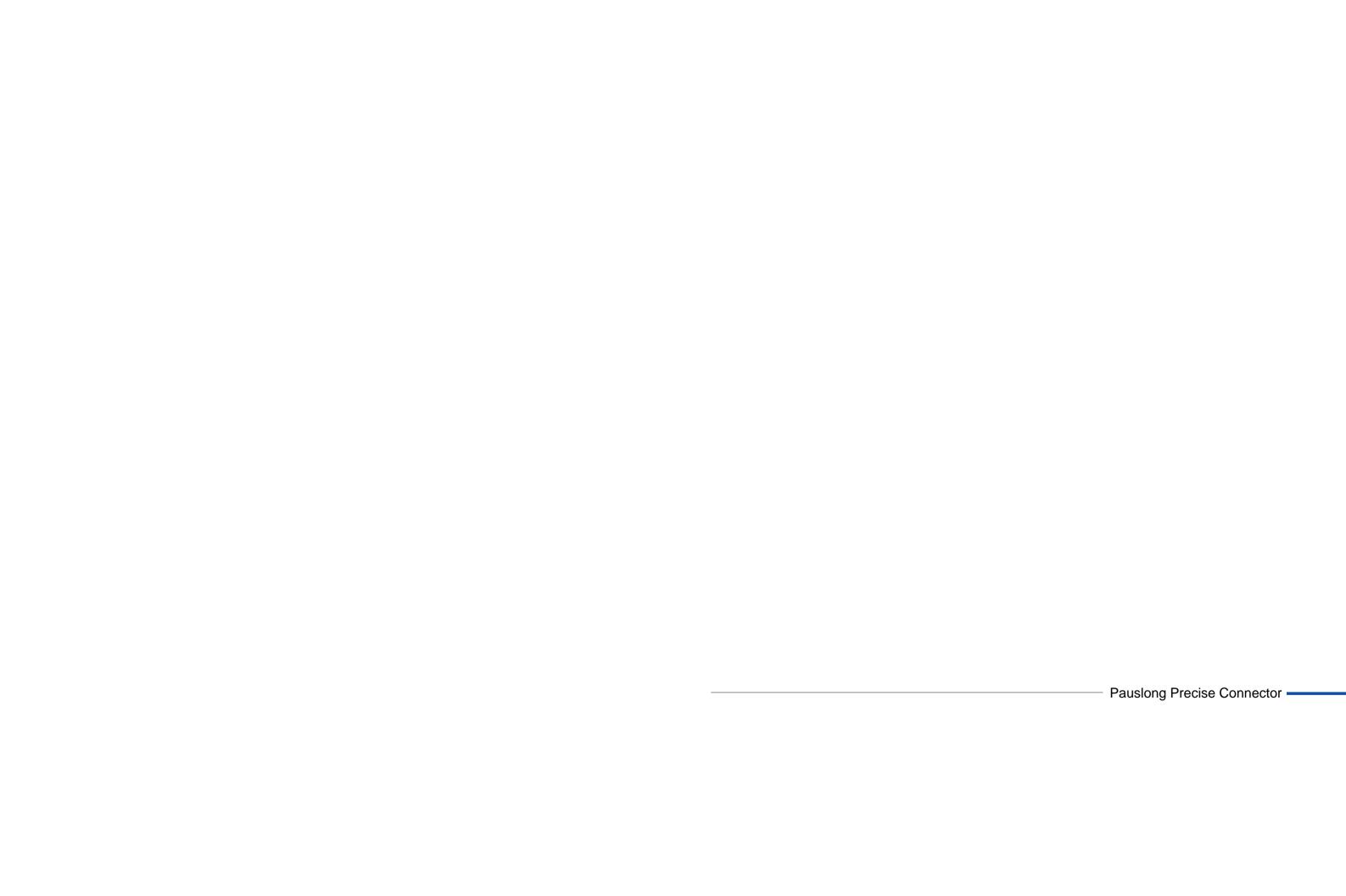
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We supply push-pull self-locking circular connector, threaded circular connector, hybrid circular connector and customized connector cable



Connector is a small part with relatively simple function, but it plays an important role in connecting in all fields. It connects two active devices to transmit current or signal, it is widely used in medical, aviation, aerospace, data and communications, test and measurements, national defense and other military systems.



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Applications:













COMPANY PROFILE

R&D and Production:

We are a high-precision connector manufacturer integrating R&D, production and sales. We have strong technical force, excellent processing equipment and perfect inspection equipment. We are committed to the R&D and production of high-quality precision connectors and cable assembly. The products are diversified, superior performance and reliable in quality, reaching the international advanced level At the same time, the product has good compatibility with most products in the world. The products are widely used in medical equipment, mechanical equipment, audio and video, detection and measurement, communication electronics, military industriy, aerospace, artificial intelligence, automation equipment, ships, automobiles, power supply and other fields.

Customized Service:

We provide customized services for special industrial applications and specific needs, and provide customers with cost-effective professional connector application solutions and technical service support. We use leading industry technology, have an excellent R&D team, and adhere to the scientific management concept to achieve a perfect leap forward and industrialized production capacity to meet market demand.

Corporate culture:

Adhering to the enterprise tenet of "honest operation, inclusive, people-oriented, and pursuit of excellence", the company focuses on product research and development and production. We will work with you to create a better future with high-quality technical services, reasonable prices, and a perfect service system

Advantage

COMPANY ADVANTAGE



Professional Team

We have an experienced, professional and reliable management and technical team, which can provide a complete set of connector cable design and selection

Pre-sales & After-sales

Our team has excellent technical consulting ability, can provide customers with good pre-sales and after-sales services, provide customers with high-quality products at the same time with fast delivery, high cost performance, and win the support and trust of many customers

Quality Certificates

Connectors and cable components designed, manufactured and sold by us have passed ISO9001 and CE ROHS certificates

Personalized Scheme

Our team is committed to providing customers with innovative personalized solutions, incorporating the requirements of customers' professional connection solutions into the project management system. Customized connectors and cables are drawn by CAD software and approved by customers before formal production

A connector is a coupling device that connects electrical terminals to form a circuit. Connectors can be used to connect wires, cables, printed circuit boards and electronic components. We design and manufacture a variety of connector product combinations that can reliably transmit data, power and signals in the most demanding environments and extreme use cases.

We supply metal and plastic connectors, our connectors can achieve higher performance while reducing application scale and power consumption. Audio and video connectors can provide enhanced circuit board retention and EMI shielding capabilities. Push pull self-locking connector no longer requires welding; Plug in connections can be terminated without tools. In our connector portfolio, we provide powerful solutions to improve connectivity of critical systems.

Connector Application Field:

Connectors are widely used in dental instruments, scanning instruments, pacemakers, hearing aids, electrical surgery equipment, sensors, beauty instruments and other medical equipment. The sealing characteristics of the connector can be used in humid environments, and the flexible sealing pipe and sealing ring can be used in harsh environments. Connectors provide connectivity solutions for industrial cameras and control equipment, audio equipment, wireless microphones and microwave transmission of live broadcast, studios, movies, television, radio broadcasting equipment, drama and music and other types of applications.



Connectors provide complete EMC/EMI shielding products for data communication equipment, headphones, antennas and microphones, speakers, stage lighting, LED displays, electromechanical engineering, precision instruments and other types of equipment.

Plastic Connector Profile:

The push-pull self-locking system is famous for its simple and fast plug and pull mode, which is very effective in anti vibration/impact; It can effectively prevent the disconnection caused by pulling the cable, and it is safe and reliable to use, which is conducive to the realization of plugging and unplugging with very limited space.

Circular connector adopts this push-pull self-locking structure. This product is widely used in medical devices, test and measurement instruments, machinery, audio video broadcast, telecommunications and military, and realizes the connection of electrical signals, especially for the electrical signal connection on instruments and meters that need to be frequently connected to separate shielding.

Features:

- 1. Compact structure, small, lightweight and beautiful;
- 2. Push pull self-locking structure, simple and fast connection and separation;
- 3. Exquisite self-locking device ensures the reliability of connection;
- 4. Reasonable key position design, with blind insertion function, and multi key position transformation;
- 5. Wide choice of colors for easy identification (grey, blue, yellow, black, red, green and white)
- 6. Various contact types: solder, print and elbow print 90 degree

Materials:

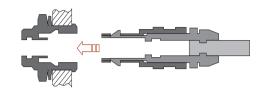
1. Push pull plastic connector outshell: PVC

2. Insulator materials: PPS

3. Contacts: brass, with gold plated

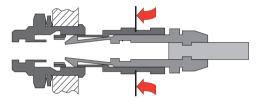
4. Bend relief: TPU

Product Appearance:

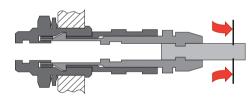




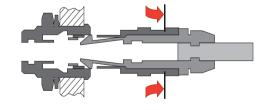




1. Self-latching system allows the connector to be mated by simply pushing the plug axially into the socket.



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



3. When required, the connector is disengaged by a single axial pull on the outer release sleeve. This first disengages the latches and then withdraws the plug from the socket.



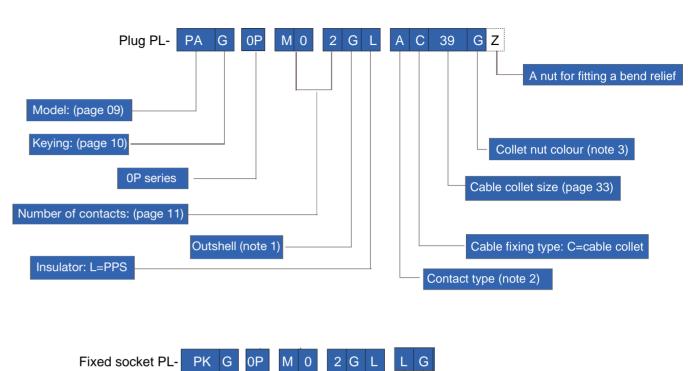
Part number:

Model: (page 09)

Keying: (page 10)

Insulator: L=PPS

Number of contacts: (page 11)



Front nut color (note 3)

Contact type (note 2)

Note 3: N=black Note 1: A=Solder male G=grey PVC G=gray A=blue L=Solder female N=black PVC N=PCB female B=white PVC D=PCB male V=PCB elbow B=white

0P series

Outshell (note 1)

Part number example:

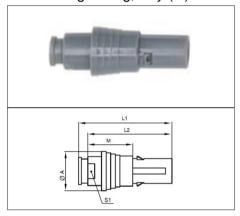
Straight plug: PL-PAG.0P.M02GL.AC39GZ=Straight plug, Key (G), 0P series, multipole 2 pin, grey outshell, PPS insulator, solder male contacts, cable collet 3.9mm, grey collet nut, nut for fitting a bend relief.

PL-PKG.0P.M02GL.LG=Fixed socket, fixed by nut, key (G), 0P series, multipole 2 pin, grey outshell, PPS insulator, solder female contacts, grey front nut.

Multicolor:

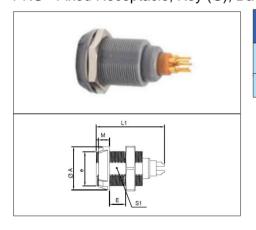


PAG Straight Plug, Key (G) with Cable Collet



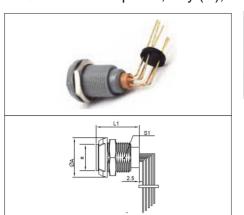
Reference			Dimens	ions (mm)		
series	model	А	L1	L2	М	S1
0P	PAG	11.8	30.5	30	17.7	7.9

PKG Fixed Receptacle, Key (G), Back Panel Mounting



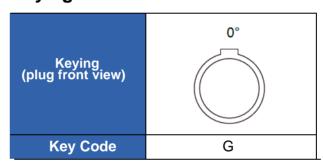
Reference			Dimensions (mm)						
series	model	L1	М	Α	е	Е	S1		
0P	PKG	25	3	13.5	M10*0.5	8.0	9.2		

PKG Fixed Receptacle, Key (G), Elbow 90° Contact for Princted Circuit



Reference			D	imensio	ns (mm)		
series	model	L1	М	А	е	Е	S1
0P	PKG	25	3	13.5	M10*0.5	8.0	9.2

Keying 0P Series



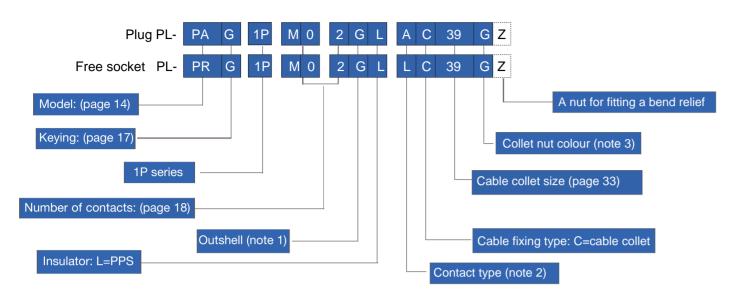


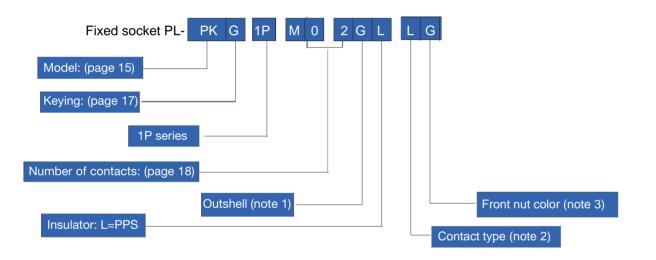
Multipole layout

		Pin <i>l</i>	Array		a	7		
		Solder male contact	Solder female contact		stanc	rent (/	(>)	; (<
Series	Insulator			ØA (mm)	Contact resistance (mΩ)	Related current (A)	Test voltage (V)	Test current (V)
	02			0.9	6	10	1000	450
	03			0.9	6	8	875	400
	04			0.7	7.5	7	875	300
0P	05			0.7	7.5	6.5	750	350
	06		0000	0.5	10	2.5	750	300
	07			0.5	10	2.5	750	250
	09		0000	0.5	10	2	600	200



Part number:





Note 1: G=grey PVC N=black PVC B=white PVC

Note 2: A=Solder male L=Solder female N=PCB female D=PCB male V=PCB elbow

Note 3: N=black G=gray A=blue R=red J=yellow V=green B=white

Part number example:

Straight plug:

PL-PAG.1P.M02GL.AC39GZ=Straight plug, Key (G), 1P series, multipole 2 pin, grey outshell, PPS insulator, solder male contacts, cable collet 3.9mm, grey collet nut, nut for fitting a bend relief.

Free socket:

PL-PRG.1P.M02GL.LC39G=Free receptacle, key (G), 1P series, multipole 2 pin, grey outshell, PPS insulator, solder female contacts, cable collet 3.9mm, grey collet nut.

Fixed socket:

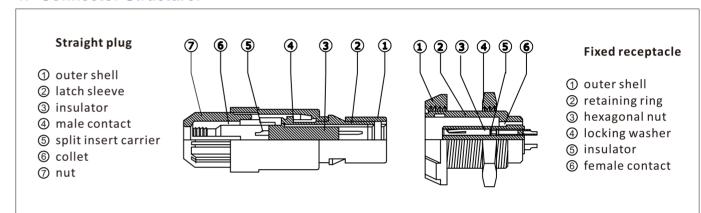
PL-PKG.1P.M02GL.LG=Fixed socket, fixed by nut, key (G), 1P series, multipole 2 pin, grey outshell, PPS insulator, solder female contacts, grey front nut.

Multicolor:

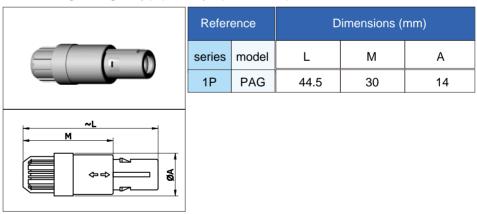


1P series

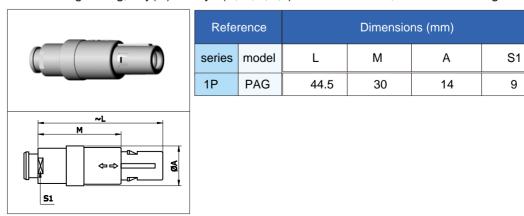
1P Connector Structure:



PAG Straight Plug, Key(G) or Keys (A, B,C,H,J) with Cable Collet



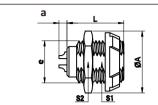
PAG Straight Plug, key(G) or keys (A, B,C,H,J) with cable collet, with nut for fitting a bend relief



PKG Fixed Receptacle with two nuts, key(G) or keys (A, B,C,H, J) back panel mounting



Reference			Dimensions (mm)						
series	model	L	а	Α	е	S1	S2		
1P	PKG	20.5	2.7	18.5	M14*1.0	12.5	17		

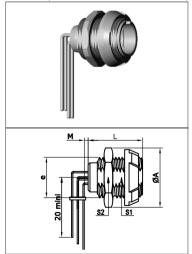


PLG Fixed Receptacle, all-in-one type, key(G) or keys (A, B,C,H) and nut fixing



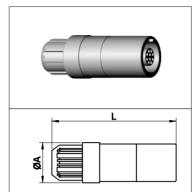
Reference			Dimensions (mm)						
series	model	L	а	Α	е	S1	S2		
1P	PLG	20.5	2.7	19.5	M14*1.0	12.5	17		

PKG Fixed Receptacle, key(G) or keys (A,B,C,H) elbow 90° contact for princted circuit



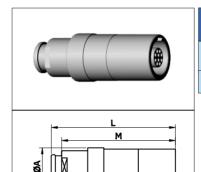
Reference			D	imensio	ns (mm)		
series	model	L	М	А	е	S1	S2
1P	PKG	20.5	2.0	19.5	M14*1.0	12.5	17

PRG Free Cable Mount Receptacle, key(G) or keys (A,B,C,H,J) with cable collet



Refe	rence	Dimensi	ons (mm)
series	model	L	А
1P PRG		39	14

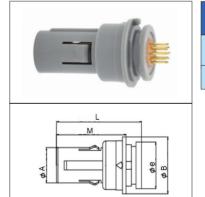
PRG Free Cable Mount Receptacle, key(G) or keys (A,B,C,H,J) with cable collet, with nut for fitting a bend relief



Reference			Dimensio	ns (mm)	
series	model	L	М	А	S1
1P	PRG	42	39	14	9

1P series

PJG Short Plug, key(G) or keys (A,B,C) with cable collet, available only male solder contact

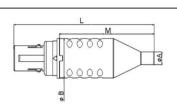


Refe	rence		D	imensio	ns (mm)	
series	model	L	М	А	е	В
1P	PJG	26.6	22.6	9.85	13	15.8

PJG Short Plug, key(G) or keys (A,B,C) with cable collet, with back cover



Refe	rence		Dimensio	ns (mm)	
series	model	L	М	А	В
1P	PJG	69.8	47.1	5	15.7



Alignment Key and Polarized Keying System 1P Series

Keying (plug front view)	0°	40°	60°	80°	170°	155°
Key Code	G	Α	В	С	Н	J

Alignment keys:



G = standard key.



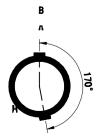
A = two keys with 40 degree,



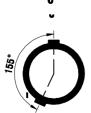
B = two keys with 60 degree,



C = two keys with 80 degree,



H = two keys with 170 degree



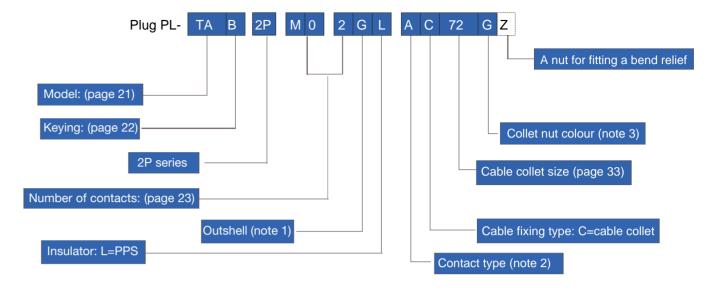
J = two keys with 155 degree.

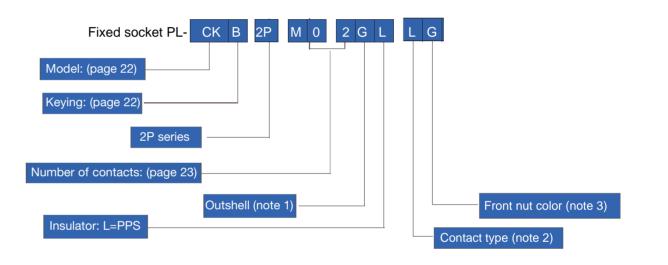
Multipole layout

	solder male contact	solder female contact					Co	ntact t	ape		
		4002	Insulator	Contact No.	ØA(MM)	Solder contact	PCB straight contact	PCB elbow contact	Test voltage(contact -contact)k/v rms	Test voltage(contact -shell)k/v rms	Rated current /A
ĺР			02	2	1.3	•	•	•	1.30	1.10	10.0
			03	3	1.3	•	•	•	1.30	1.10	10.0
			04	4	0.9	•	•	•	1.35	1.45	10.0
			05	5	0.9	•	•	•	1.25	1.15	9.0
			06	6	0.7	•	•	•	1.05	1.20	7.0
			07	7	0.7	•	•	•	0.95	1.05	7.0
			08	8	0.7	•	•	•	0.95	1.15	5.0
		0000	09	9	0.5	•	•	•	0.85	1.20	3.0
			10	10	0.5	•	•	•	0.90	1.50	2.5
			14	14	0.5	•	•	•	0.80	1.20	2.0



Part number:





Note 1: G=grey PVC N=black PVC Note 2: Note 3:

A=Solder male
L=Solder female
N=PCB female
D=PCB male
V=PCB elbow

Note 3:
N=black
G=gray
A=blue
V=green

Part number example:

Straight plug

PL-TAB.2P.M02GL.AC72GZ=Straight plug, Key (B), 2P series, multipole 2 pin, grey outshell, PPS insulator, solder male contacts, cable collet 7.2mm, grey collet nut, nut for fitting a bend relief.

Fixed socket:

PL-CKB.2P.M02GL.LG=Fixed socket, fixed by nut, key (B), 2P series, multipole 2 pin, grey outshell, PPS insulator, solder female contacts, grey front nut.



Multicolor:



TAB Straight Plug, Key(B) with Cable Collet



Refer	ence	Dimensions (mm)					
series	model	L	М	А			
2P	TAB	50	35.5	18			

TAB Straight Plug, Key(B) with Cable Collet, with nut for fitting a bend relief



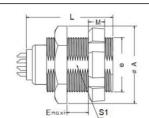
<u> </u>	L	
		<u> </u>

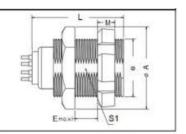
Refe	rence	Dimensions (mm)						
series	model	L	М	А	S1			
2P	TAB	49	34.5	18	12.8			

CKB Fixed socket with two nuts (back panel mounting), solder or PCB contacts



Refe	rence	Dimensions (mm)							
series	model	L	L M A e S1						
2P	СКВ	24.5	4	22.8	M17*1.0	15.5	7		



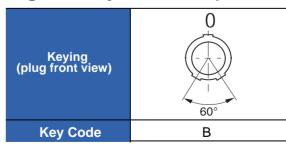


CKB Fixed socket with two nuts with 90° contacts (back panel mounting)



Refe	rence	Dimensions (mm)							
series	model	L	L M A e S1						
2P	СКВ	24.5	4	22.8	M17*1.0	15.5	7		

Alignment keys (2P series):



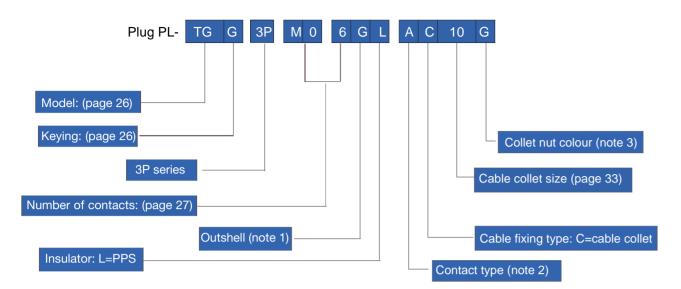


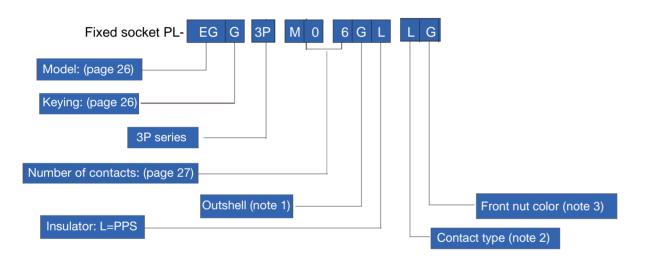
Insert configuration:

		Pin Aı	ray					
		Male solder contact	Female solder contact		ince	t (A)		
Series	Insulator			(mm) AQ	Contact resistance (mΩ ?	Related current	Test voltage (V)	Test current (V)
	02			2.0	3	30	1650	600
	03			1.6	4	17	1800	600
	04			1.3	5	15	1800	500
	05			1.3	5	14	1500	500
	06		600	1.3	5	12	1500	550
	07			1.3	6	11	1680	400
2P	08			0.9	6	10	1200	400
	10			0.9	7.5	8	1200	450
	12		60000	0.7	7.5	7	1350	400
	16			0.7	7.5	6	1200	400
	18			0.7	7.5	6	1200	400
	19			0.7	7.5	6	1200	400
	26			0.5	8	5.5	1200	400



Part number:





Note 1: G=grey PVC N=black PVC Note 2:

Note 3: N=black G=gray

A=Solder male L=Solder female N=PCB female

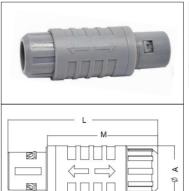
Part number example:

Straight plug:

PL-TGG.3P.M06GL.AC10G=Straight plug, Key (G), 3P series, multipole 6 pin, grey outshell, PPS insulator, solder male contacts, cable collet 10.0mm, grey collet nut.

PL-EGG.3P.M06GL.LG=Fixed socket, fixed by nut, key (G), 3P series, multipole 6 pin, grey outshell, PPS insulator, solder female contacts, grey front nut.

TGG Straight Plug, Key(G) with Cable Collet

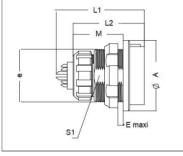


Refer	ence	Dimensions (mm)					
series	model	L	М	А			
3P	TGG	63	47	21.3			

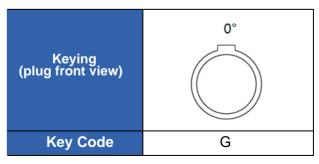
EGG Fixed socket with key (G), nut fixing



Refe	eference Dimensions (mm)							
series	model	L1	L2	М	е	Α	Е	S1
3P	EGG	36	27.3	19.4	M20*1.0	26.6	5	8.5
					1			IL



Keying 3P Series

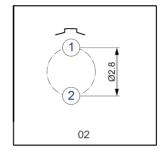


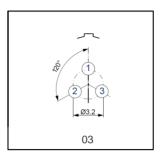
Insert Configuration:

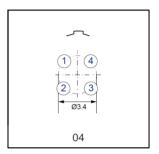
	Male solder contacts	Female solder contacts						Cor	ntact pe			(mm)	
	⇒			tacts		ø (mm)				t rms)	in (mm)	E E	€
			Reference	Number of contacts	ø A (mm)	Solder bucket	Solder	Crimp	Print (straight)	Test voltage (kV Contact-contact	Air clearance min	Creepage distance	Rated current (A)
			06	6	0.9	0.8	•	-	•	3.9	1.95	1.95	6.0
3P series			10	10	0.9	0.8	•	-	•	3.3	1.25	1.25	5.0
n o			14	14	0.9	0.8	•	-	•	1.7	0.90	0.90	4.0

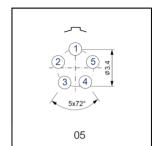
Panel Cut-out for Straight PCB Contacts (0P series):

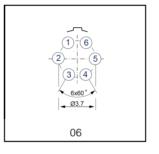


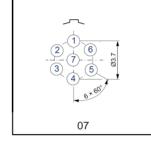


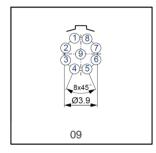






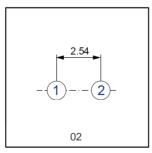


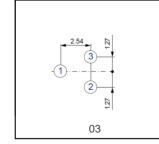


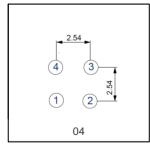


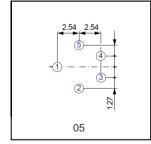
Panel Cut-out for 90° Elbow Contacts (0P series):

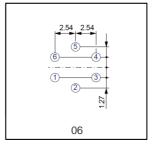


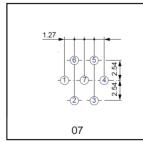


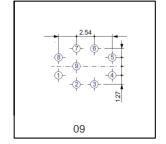






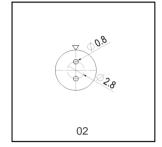


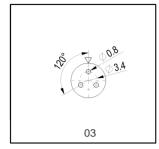


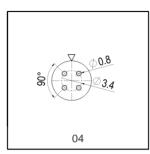


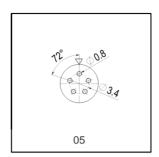
Panel Cut-out for Straight PCB Contacts (1P series):

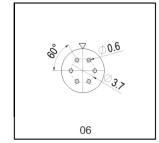


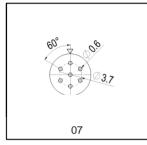


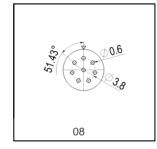


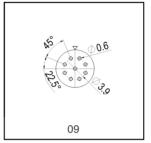


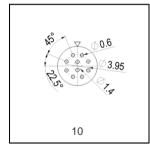


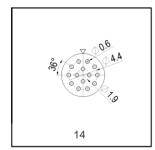






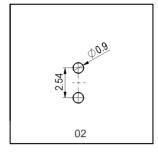


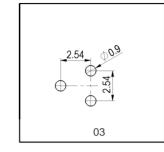


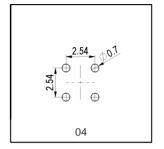


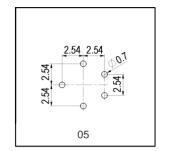
Panel Cut-out for 90° Elbow Contacts (1P series):

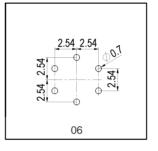


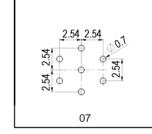


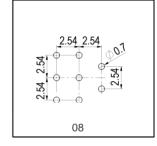


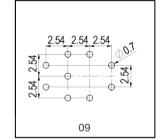


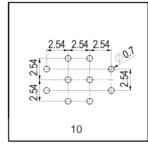


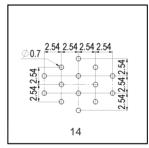






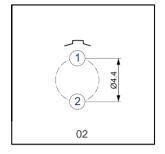


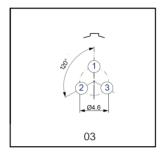


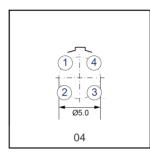


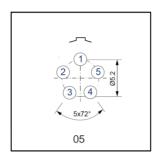
Panel Cut-out for Straight PCB Contacts (2P series):

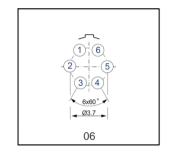


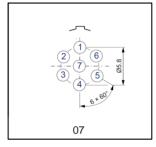


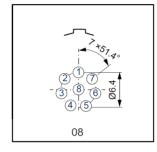


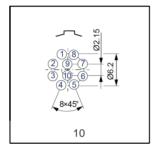


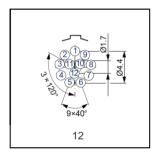


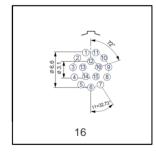


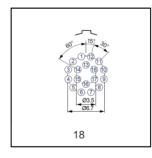


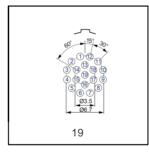


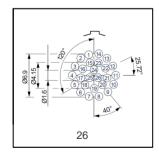




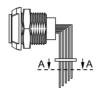


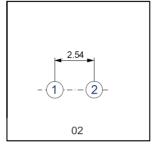


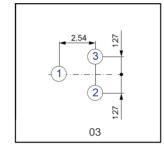


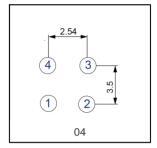


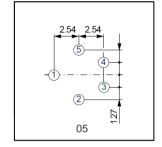
Panel Cut-out for 90° Elbow Contacts (2P series):

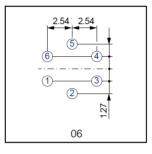


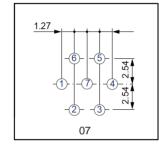


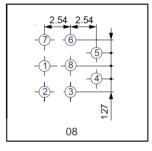


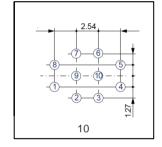


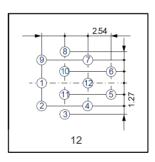


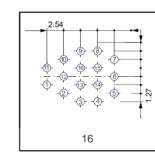


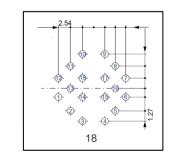


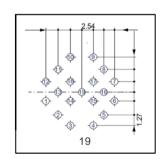


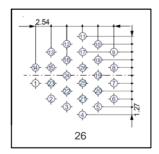


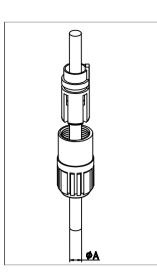






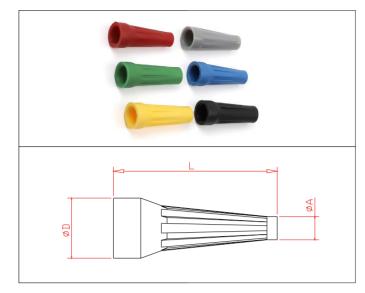






A Code	Cable diameter	0P	1P	2P	3P
39	2.7-3.9	•	•		
52	4.0-5.2		•		
62	5.0-6.2		•		
72	6.0-7.2			•	
82	7.0-8.2			•	
92	8.0-9.2				•
10	9.0-10				•

Bend relief



series	Dimensions		
	L	D	А
0P	24	9.8	
1P	30	13.2	see below
2P	36	16.3	Delow
3P	42	20.3	

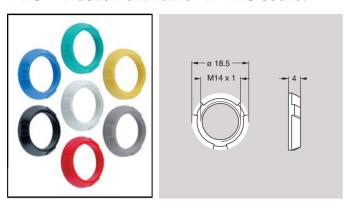
A Code	Cable diameter	0P	1P	2P	3P
40	2.7-4.0	•	•		
50	4.0-5.0		•		
60	5.0-6.0		•		
70	6.0-7.0			•	
80	7.0-8.0			•	
90	8.0-9.0				•
10	9.0-10				•

Bend relief color code

Code	Color	Code	Color
N	black	J	yellow
G	grey	V	green
Α	blue	В	white
R	red		

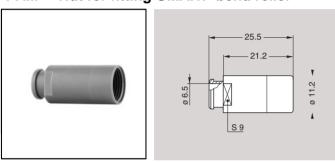
Bend relief part number example: PL-GMA.0P.040.DN: bend relief for 0P plug, diameter 4.0mm, black color

PKG Plastic front nut for 1P PKG socket



Mat.	Colours
PC	blue
PC	white
PC	grey
PC	yellow
PC	black
PC	red
PC	green
	PC PC PC PC PC PC

PAM Nut for fitting GMA.1P bend relief



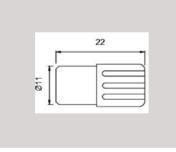
Note: all dimensions are in millimeters

Part Number	Mat.	Colours
PAM.130.CA	PC	blue
PAM.130.CB	PC	white
PAM.130.CG	PC	grey
PAM.130.CJ	PC	yellow
PAM.130.CN	PC	black
PAM.130.CR	PC	red
PAM.130.CV	PC	green

Note: only for PA• or PR• models.

PAG Back nut for 1P plug



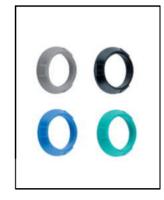


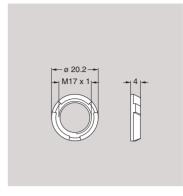
Note: all dimensions are in millimeters

Part Number	Mat.	Colours
PAG.130.CA	PC	blue
PAG.130.CB	PC	white
PAG.130.CG	PC	grey
PAG.130.CJ	PC	yellow
PAG.130.CN	PC	black
PAG.130.CR	PC	red
PAG.130.CV	PC	green

Note: only for PA• or PR• models.

CKB Plastic front nut for 2P CKB socket

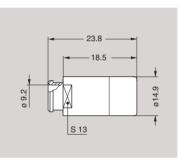




Part Number	Mat.	Colours
CKB.240.CA	PC	blue
CKB.240.CV	PC	green
CKB.240.CG	PC	grey
CKB.240.CN	PC	black

TAM Nut for fitting a GMA.2P bend relief





Part Number	Mat.	Colours
r ait rrainisoi	····	00.00.0
TAM.130.CA	PC	blue
TAM.130.CV	PC	green
TAM.130.CG	PC	grey
TAM.130.CN	PC	black

Note: only for TAB or DRB models.

Note: all dimensions are in millimeters

Customized Connector Cable Assembly

In order to provide customers one-stop service, we also provide cable welding service. The cables can be provided by customers or use our standard cables. We have skilled wire welding technicians. Each wire will undergo a complete point-to-point continuity test and high-voltage test to avoid possible problems. In order to meet various special requirements of customers, we will try our best to provide customers with efficient solutions.

We could supply metal and plastic connector cable assembly both, such as mixed cable, micro cable, coaxial cable, tri coaxial cable, video cable, audio cable, multi-core cable, spiral cable, PTFE cable, Viton high-voltage cable, silicone rubber cable, base station cable, cable assembly, plastic optical cable, computer cable, PUR cable, optical cable, Category 5 cable, Category 7 cable, flat cable, special composite cable.

































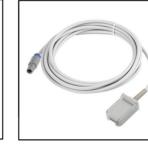
























Production Process







-Supply push-pull self-locking circular connector, threaded circular connector, hybrid circular connector and customized connector cable

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Email: sales@pauslongconnector.com

Website: https://www.pauslongconnector.com

Address: 6th Floor, Building D, Juji Industrial Park, Yabian Xueziwei,

Shajing Street, Bao'an District, Shenzhen, Guangdong, China.

Step 10

Finished connector cable