

DEGSON is a professional industrial connector manufacturer that offers customized solutions to customers.

**DEGSON** Terminal Block

DEGSON ELECTRONICS CO.,LTD.  
ISO9001 ISO14001 ISO80079-34

**DEGSON** Circular Connectors

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**DEGSON**  
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www.degson.com

The catalog is only for reference,and the detail data must be based on our company's specification!

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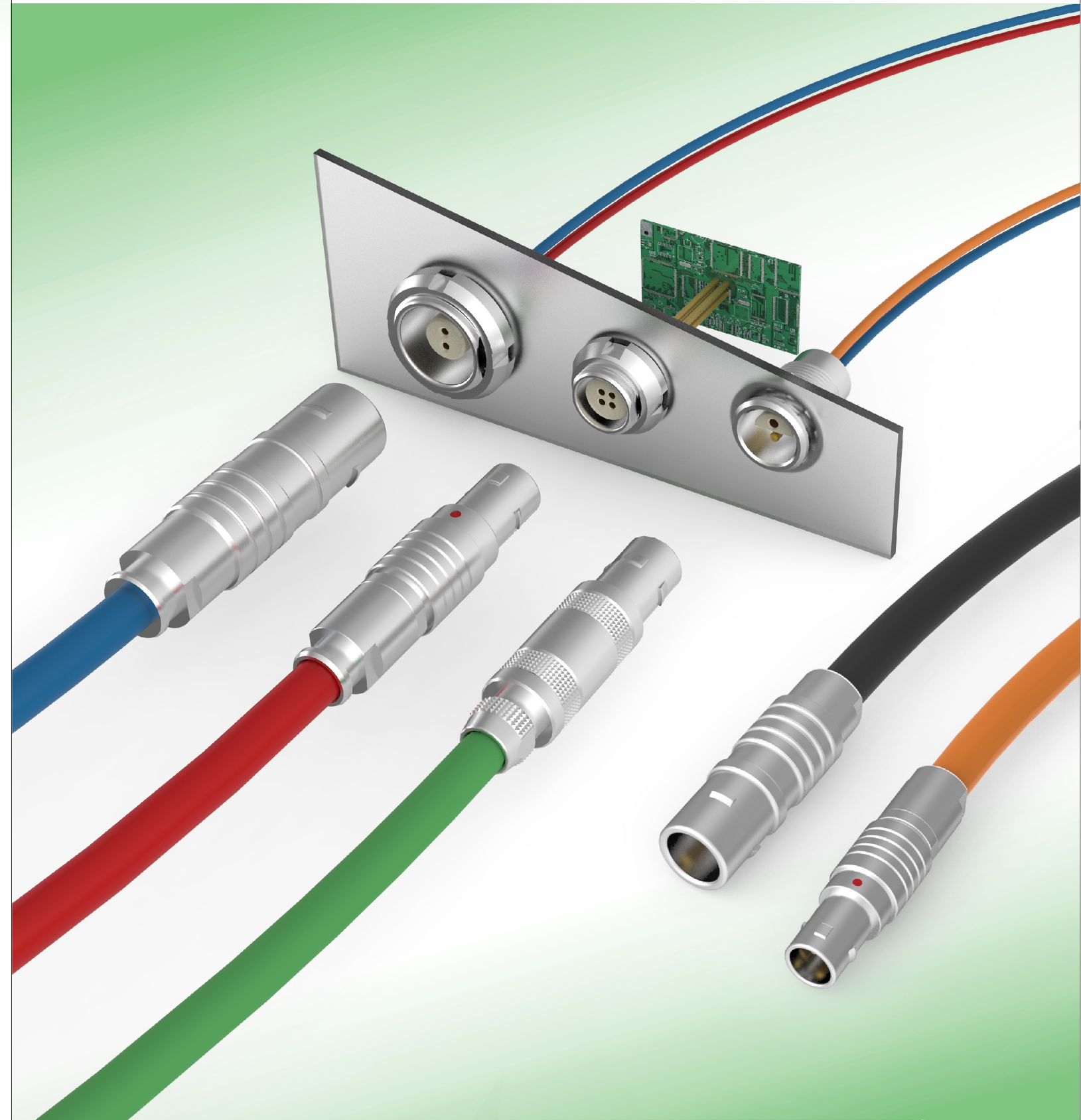
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**DEGSON**

# Push-Pull Connectors



DEGSON ELECTRONICS CO.,LTD.

ISO9001 ISO14001 ISO80079-34

PC-19-E01



# Brief Introduction

Founded in 1990, DEGSON Electronics Co., Ltd. is one of the largest manufacturers of terminal blocks and industrial electrical connection products in Asia. As a high-tech enterprise, DEGSON owns the first UL and VDE authorized laboratory in Asia. DEGSON products have been approved by . The company has been granted ISO9001, ISO14001, ISO80079-34, ISO/TS22163 and IATF16949 management system certificates.

DEGSON products are very popular in China, Germany, UK, Italy, Spain, Poland, Russia, India, Turkey, Brazil, USA, Japan, Korea, South Africa, etc. totally more than 70 countries and areas. DEGSON provides excellent products and service for the customers all over the world, especially in Industrial Automation, Instrument, Elevator, Electric Power, Rail Transport, New Energy, Lighting, Telecommunication, Power Supply, Security, Ship-building and so on.

DEGSON fulfills the sales network all over the world and sets up marketing centers in Germany and Shanghai, China. Pragmatic, Sincerity, Responsibility, Innovation, Harmonious Development, Rule and Win-win. In accordance with these spirits of enterprise for 29 years, DEGSON will keep providing more speedy, comprehensive and professional local service to our customers.

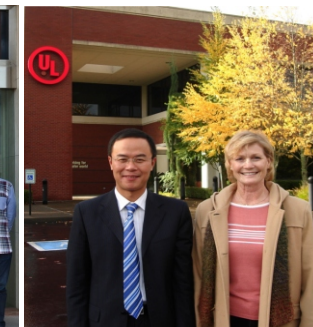


## First Lab. authorized by UL&VDE in Asia

### Visiting UL, VDE



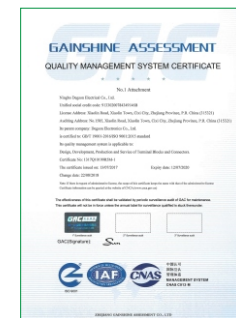
① The general manager of UL global energy & technology division visit our company



② Visiting VDE, VDE office gave a warm welcome to our general manager Mr. Ding.



③ VDE Laboratory Accreditation: In July 2010, VDE Issued the "VDE Authorized Laboratory" Certificate to DEGSON's laboratory.  
UL Laboratory Accreditation: UL formally issued "UL WTDP" certification to DEGSON in March 2013. On April, 2016, UL-CTDP. On December, 2016, VDE-TDAP. On January, 2017, Pass IRIS system audit.



ISO9001



ISO14001



ISO22163



UL - CTDP



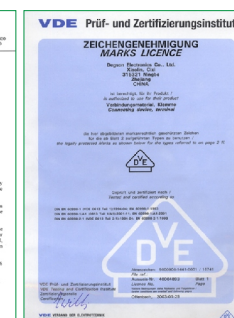
VDE - TDAP



EX certificate



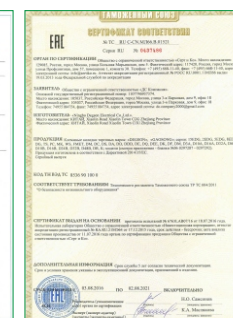
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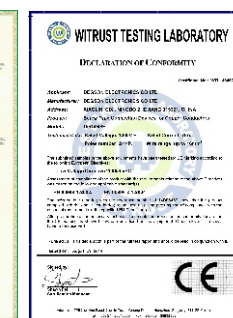
165 VDE certificates for 1000 items



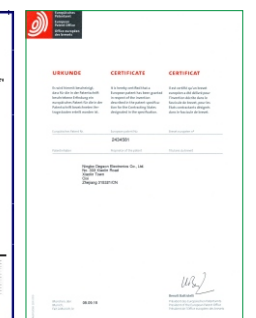
TUV certificate



EAC certificate



CE certificate



European Invention Patent certificate

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## Application :

Multi-core connectors are widely used in Communications, Electron, Medical treatment and Instrument industry and so on in order to realize electrical signal connection, specially used in shielded instruments and devices which need to connect and disconnect frequently, such as IC control system, measuring meter and communication etc.

## Feature :

1. Compact structure, small and beautiful.
2. High density arrangement, multi-core arrangement.
3. All-metal, well shielding.
4. Fast connect and disconnect, easy to operate.
5. Self-lock structure, safe and reliable.
6. Socket with jack type, Plug with pin type.

## Type :

Classify according to connect method	Classify according to plastic material
Soldering and PCB type	Metal connectors, plastic connectors

## Material :

Housing material is normal copper alloy, stainless steel for special material. Ni or Sand chromium or black chromium plating etc.

Insulation material: PA66,PSU,PPSU,PPS,PEEK etc.

Contact: Copper alloy manufacturing, Au plating

B series Metal housing type



TT Plug    HT Plug    GT Plug    MT Plug    CT Plug



WT Plug    TZ Socket    SZ Socket    BZ Socket    SZ Socket (Elbow 90°)



PZ Socket    MZ Socket    HZ Socket    RZ Socket    DZ Socket



LZ Socket    3T Socket    FZ Socket    WZ Socket    NZ Socket

K series Metal housing type



TT Plug    HT Plug    TZ Socket    PZ Socket    HZ Socket



KZ Socket    FZ Socket    DZ Socket

S series Metal housing type



TT Plug    HT Plug    WT Plug    TZ Socket    SZ Socket



PZ Socket    HZ Socket    WZ Socket    NZ Socket

C series Metal housing type

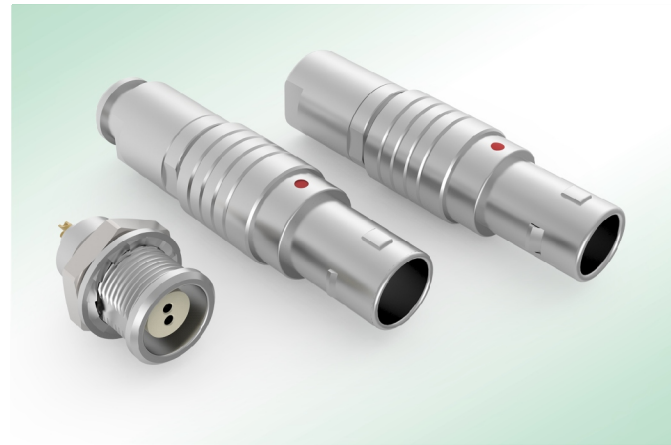


HT Plug    MZ Socket    HZ Socket

F series



HT Plug    TT Plug    MZ Socket    SZ Socket    DZ Socket



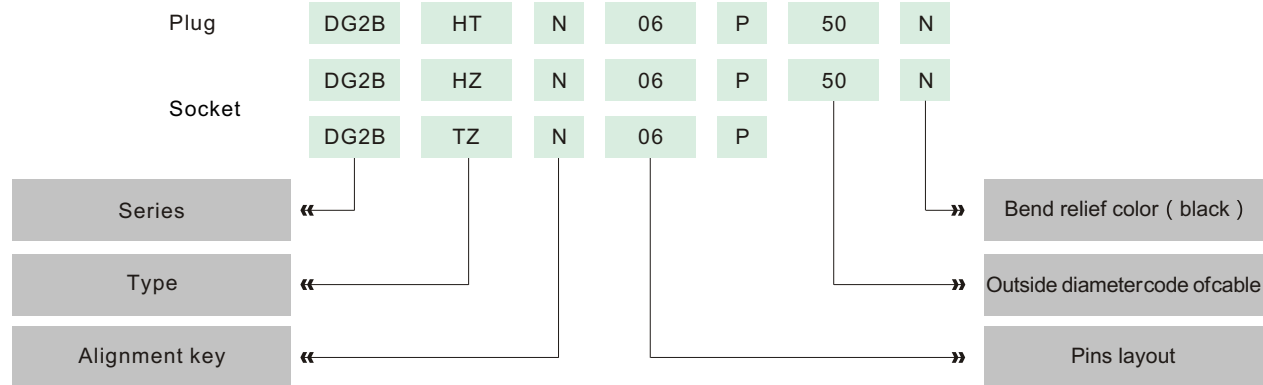
### Main features of B series connector :

- Safe push-pull locking system.
- Multicore type , 2-26.
- Soldering and PCB pin ( Straight and angled type ) .
- High density installation, saving space.
- Multiple key positions available, avoid misplug among similar connectors.
- 360 degree shield, provides EMC protection in all directions.

### Components of connector :

- Shell is using copper alloy , Cr or Ni plated , stainless steel is available.
- Contact pin and contact hole are using copper alloy , gold plated.
- Insulator is using engineering plastics which has high temperature resistant and good insulation property.
- Protecting bushing is using soft engineering plastics which can protect cable well.

### B series product numbering rule :



### Product numbering example :

Straight plug with protecting bush

DG1BHZA06P42N: 1B series straight plug, 30° double key location ( A ) , multi-core type 6 cores, suitable for 4.0mm outside diameter cable, cable collet fixing, black bend relief.

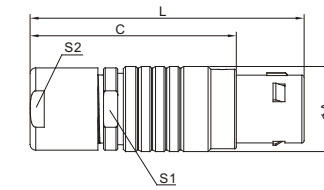
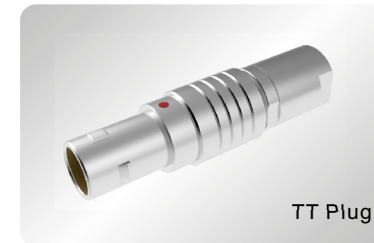
Fixing socket

DG3BTZN21P: 3B series fixed socket, nut fixed inside case, single key location, multi-core type 8 cores.

Floating socket

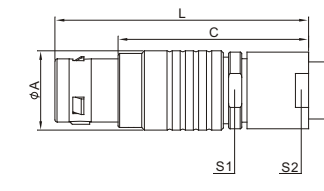
DG1BHZN06P50N: 1B series floating socket, single bond location, multi-core type 6 cores, suitable for 5.0mm outside diameter cable, cable collet fixing, black bend relief.

TT plug Standard type straight plug, key can prevent rotating and misplug ( N , A, B.....W ) , cable collet fixing.



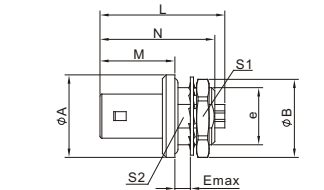
Project		Size				
Series	Type	L	A	C	S1	S2
00B	TT	27	6.5	19	5.5	6
0B	TT	36	9.5	30	8	8
1B	TT	43	12	34	10	9
2B	TT	50	15	42	13	13
3B	TT	57	18	42	16	15

HT plug General type plug with bend relief, key can prevent rotating and misplug ( N , A, B.....W ) , cable collet fixing, protecting bush to prevent bend relief.



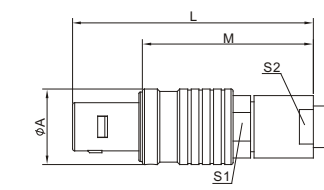
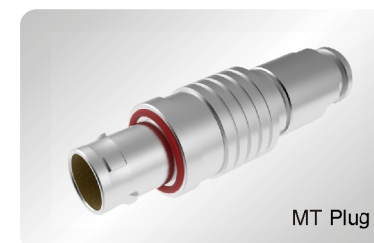
Project		Size				
Series	Type	L	A	C	S1	S2
00B	HT	27	6.5	19	5.5	6
0B	HT	35	9.5	25	8	8
1B	HT	41	12	30	10	9
2B	HT	48	15	36	13	13
3B	HT	57	18	42	16	15

GT plug Fixing plug inside case, key can prevent rotating and misplug ( N , A, B.....W ) .



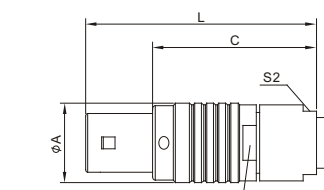
Project		Size								
Series	Type	A	B	L	N	M	E	S1	S2	e
0B	GT	10	12.4	20.8	18.4	11.2	3.5	11	8.2	M9*0.5
1B	GT	14	15.8	25.2	22.6	12.5	6	14	10.5	M12*1.0
2B	GT	18	19.2	24.7	22.5	13.8	5	17	13.5	M15*1.0
3B	GT	21	25	32	29.1	17.0	7.5	22	16.5	M18*1.0

MT plug Straight type plug, key can prevent rotating and misplug ( N , A, B.....W ) , cable collet fixing, front end sealing structure.



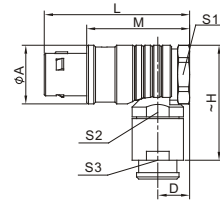
Project		Size				
Series	Type	A	L	M	S1	S2
0B	MT	10.9	34.5	24.5	8.0	8.0
1B	MT	13.5	41	30	10.0	9.0
2B	MT	16.5	48	36	13	13.0
3B	MT	19.0	56	41.5	16.5	15.0

CT plug Straight plug, key can prevent rotating and misplug ( N , A, B.....W ) , cable collet fixing, without locking structure.



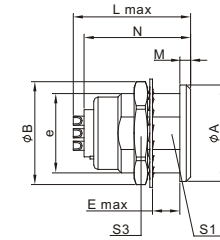
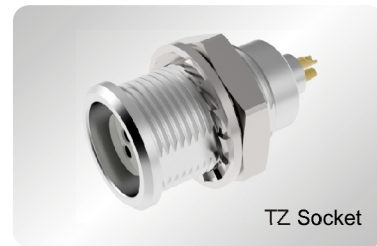
Project		Size				
Series	Type	A	L	C	S1	S2
00B	CT	8.2	27.5	19.5	—	5.5
0B	CT	9.4	34.5	24.5	8.0	8.0
1B	CT	12	41	30	10.0	9.0
2B	CT	15	48	36	13.0	13.0

WT plug Elbow (90°), key can prevent rotating and misplug ( N , A, B.....W ), cable collet fixing.



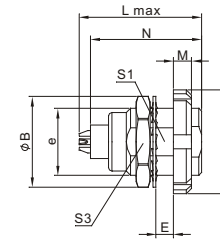
Project		Size								
Series	Type	A	D	H	L	M	S1	S2	S3	
0B	WT	10.9	6.3	21.2	29.8	19.8	9.0	8.0	8.0	
1B	WT	13.5	8	27.6	37	26	12	10	9	
2B	WT	16.5	9	32.5	41.1	29.1	15	13	13	

TZ socket Exterior installation and inside fixing general type socket, nut fixing inside case, key can prevent rotating and misplug ( N , A, B.....W ).



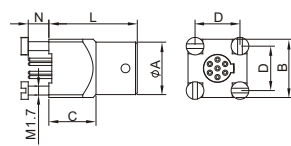
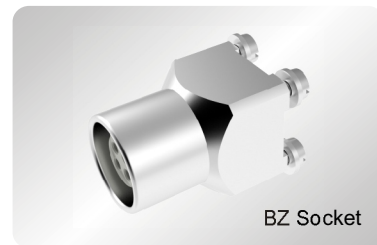
Project		Size								
Series	Type	A	B	e	E	L	M	N	S1	S3
00B	TZ	8	10	M7*0.5	6	15.9	1	13.6	6.3	9
0B	TZ	10	12.3	M9*0.5	7	21.3	1.2	18	8.2	11
1B	TZ	14	16	M12*1.0	7.5	23.2	1.5	18.7	10.5	14
2B	TZ	18	19.2	M15*1.0	8.0	24.8	2	20	13.5	17
3B	TZ	21	25	M18*1.0	11	30.7	2	25	16.5	22

SZ socket Exterior and inside installation general type socket, Exterior and inside case fixing, key can prevent rotating and misplug ( N , A, B.....W ).



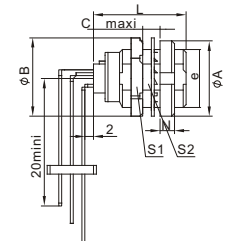
Project		Size								
Series	Type	A	B	e	E	L	M	N	S1	S3
0B	SZ	12	12.5	M9*0.5	5.5	21.3	2.5	16.6	8.2	11
1B	SZ	16	16	M12*1.0	6.0	23.2	3.2	18.7	10.5	14
2B	SZ	20	19.5	M15*1.0	6.5	24.8	3.5	20	13.5	17
3B	SZ	24	25	M18*1.0	9	30.7	4.5	25	16.5	22

BZ socket Straight socket, screw fixing ( 00B for pin fixing ), PCB type, key can prevent rotating and misplug ( N , A, B.....W ).



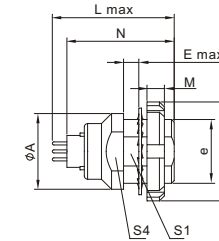
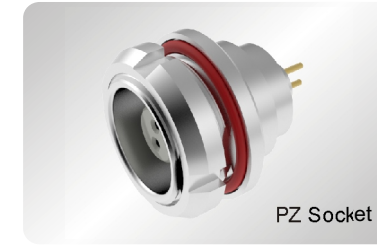
Project		Size					
Series	Type	A	B	C	D	L	N
00B	BZ	6.8	7	7	5.08	14	3
0B	BZ	9	10	8	7.62	17	4.5
1B	BZ	11.5	12	8	7.62	19	4.5
2B	BZ	14	15	9	10.16	20	5.5

SZ socket Elbow (90°) Exterior and inside installation general type socket, Exterior and inside case fixing, PCB type, 90° angled pin, key can prevent rotating and misplug ( N , A, B.....W ).



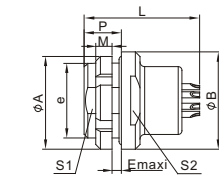
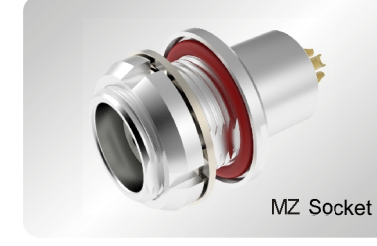
Project		Size							
Series	Type	A	B	e	E	M	L	S1	S2
0B	SZ	12	12.5	M9*0.6	5.5	2.5	16.6	8.2	11
1B	SZ	16	16	M12*1.0	6.0	3.2	18.7	10.5	14
2B	SZ	20	19.5	M15*1.0	6.5	3.5	20	13.5	17

PZ socket Inside installation general type socket, exterior case fixing, key can prevent rotating and misplug ( N , A, B.....W ).



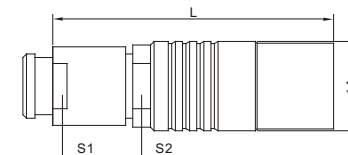
Project		Size								
Series	Type	A	B	e	E	L	M	N	S1	S4
0B	PZ	10	12	M9*0.5	2.5	22	2.5	16.6	8.2	9
1B	PZ	14	16	M12*1.0	5.0	24	3.2	18.7	10.5	13
2B	PZ	18	20	M15*1.0	4.5	27.5	3.5	20	13.5	15
3B	PZ	24	25	M18*1.0	9	31	4.5	25	16.5	18

MZ socket Inside installation general type socket, exterior case fixing, vacuum seal type, key can prevent rotating and misplug ( N , A, B.....W ).



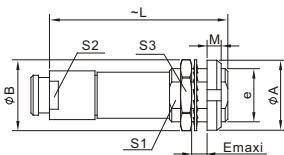
Project		Size								
Series	Type	A	B	e	E	L	M	S1	S2	P
0B	MZ	12	12.9	M9*0.6	5	21.5	2.5	8.2	-	9
1B	MZ	16	18	M12*1.0	5	27	3.5	10.5	-	11
2B	MZ	22	20.8	M16*1.0	4.5	28.5	3.5	15	18	9.6

HZ socket Hanging socket, for connecting cable, key can prevent rotating and misplug ( N , A, B.....W ), cable collet fixing, protecting bush to prevent cable bending.



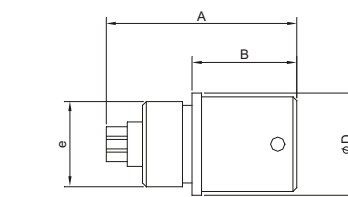
Project		Size			
Series	Type	L	A	S1	S2
0B	HZ	34	8.8	8	8
1B	HZ	40	12	9	10
2B	HZ	48	14.5	13	13
3B	HZ	55	18	15	16

RZ socket Fixed type socket, two screws fixing, key can prevent rotating and misplug ( N , A, B.....W ), cable collet fixing, protecting bush to prevent cable bending.



Project		Size								
Series	Type	A	B	e	E	L	M	S1	S2	S3
0B	RZ	12	12.5	M9*0.5	5.5	35	2.5	8.2	8	11
1B	RZ	16	16	M12*1.0	6	40	3.2	10	10	14
2B	RZ	20	19.5	M15*1.0	6.5	47	3.5	13.5	12	17

DZ socket Fixed type socket, nut fixing inside case or tightening on the case directly, key can prevent rotating and misplug ( N , A, B.....W ).



Project		Size			
Series	Type	A	B	e	D
00B	DZ	15.5	9.5	M6*0.5	6.5
0B	DZ	20	11	M9*0.5	11
1B	DZ	22	11.75	M12*1.0	14
2B	DZ	24	12.5	M15*1.0	17.8

LZ socket Double fixed socket, key can prevent rotating and misplug ( N , A, B.....W ) .



LZ Socket

Project		Size	
Series	Type		
0B	LZ		

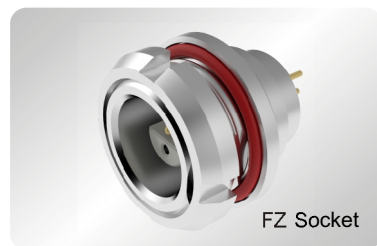
3T socket T type socket, key can prevent rotating and misplug ( N , A, B.....W ) .



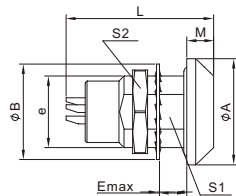
3T Socket

Project		Size	
Series	Type		
1B	3T		

FZ socket Exterior installation sealing type socket, inside case fixing, key can prevent rotating and misplug ( N , A, B.....W ) .

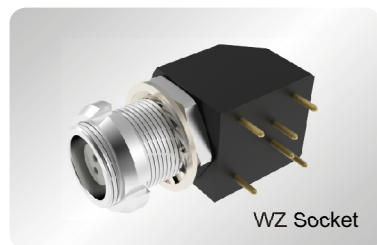


FZ Socket

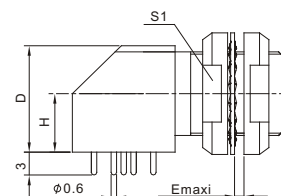
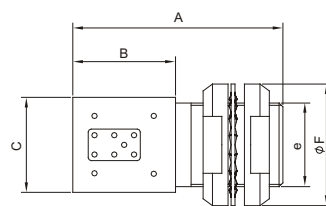


Project		Size								
Series	Type	A	B	e	E	L	M	S1	S2	
00B	FZ	11	10	M7*0.5	6.0	18.6	2.5	6.3	9	
0B	FZ	13	12.3	M9*0.5	5.5	20.2	3.0	8.2	11	
1B	FZ	18	16	M12*1.0	6.0	26.6	4.5	10.5	14	
2B	FZ	20	19.5	M15*1.0	8.0	24.8	4.0	13.5	17	

WZ socket 90°angled soldering socket, two screws fixing, key can prevent rotating and misplug ( N , A, B.....W ) , soldering block end and inserting hole end see related photos in next page.

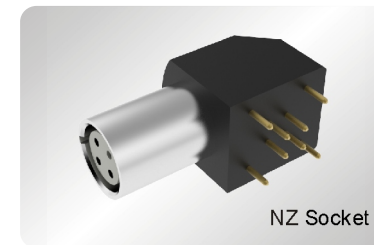


WZ Socket

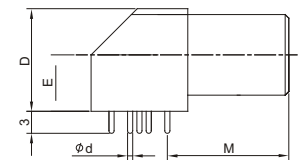
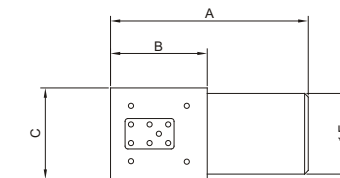


Project		Size									
Series	Type	A	B	e	C	D	H	F	M	S1	E
0B	WZ	25	13.3	M9*0.5	11.7	12.7	6.7	12	14.6	10.5	3.5
1B	WZ	27	13.3	M11*0.5	12.6	14	7.5	14	16.6	12	5.0

NZ socket 90° angled soldering socket, earthing soldering fixed, key can prevent rotating and misplug ( N , A, B.....W ) , soldering end and inserting hole end see related photos in this page.



NZ Socket



Project		Size								
Series	Type	A	B	C	D	E	F	M	d	
0B	NZ	25	13.3	11.7	12.7	6.7	12	14.6	0.7	
1B	NZ	27	13.3	12.6	14	7.5	14	16.6	0.7	

soldering end and inserting hole end related photos

Technical drawings showing soldering end and inserting hole end for NZ socket. Includes diagrams for types 01, 03, 04, 05, 06, 07, 08 and series 1B, 0B.



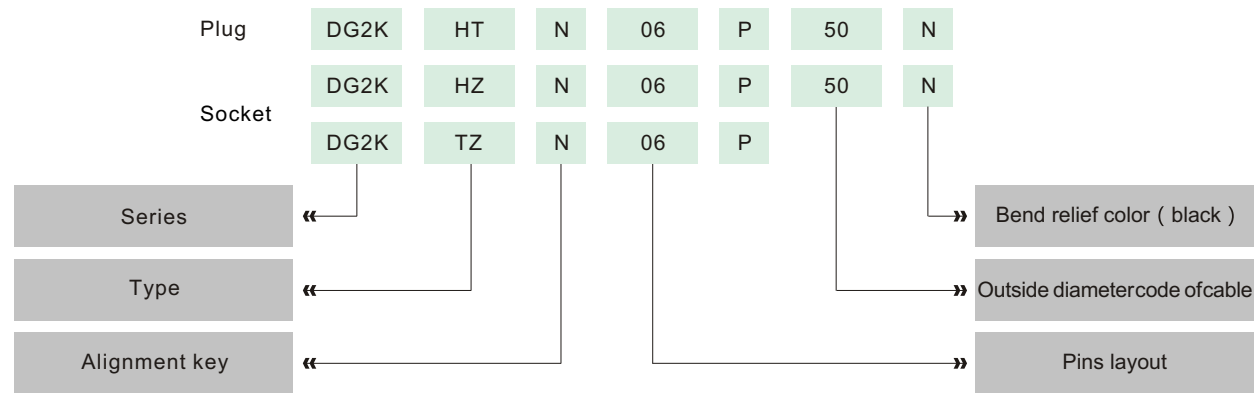
### Main features of B series connector :

- Safe push-pull locking system.
- Multicore type , 2-26.
- Soldering and PCB pin ( Straight and angled type ) .
- High density installation, saving space.
- Multiple key positions available, avoid misplug among similar connectors.
- 360 degree shield provides EMC protection in all directions.
- Water proof connection ( IP66-68 ) .
- Robust shell, suitable for hard stile outdoor environment.

### Components of connector :

- Shell is using copper alloy , Cr or Ni plated , stainless steel is available.
- Contact pin and contact hole are using copper alloy , gold plated.
- Insulator is using engineering plastics which has high temperature resistant and good insulating property.
- Protecting bushing is using soft engineering plastics which can protect cable well.
- Water proof seal ring is using high temperature resistant silicone rubber.

### K series product numbering rule :



### How to order (examples):

#### Straight plug with jacket straight plug

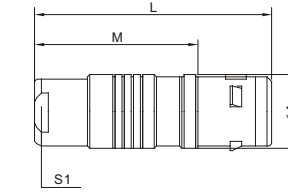
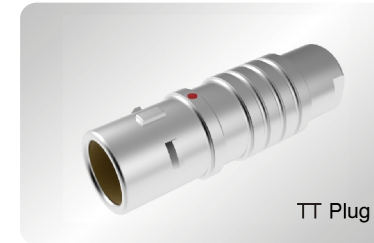
DG1KHTA06P50N : 1K series straight plug, 30° double keying located(A), cable type 6: cores, suitable for 5.0mm outed diameter cable, cable collet fixing, black bend relief.

DG2KTZN14P : 2K series fixed socket, nut fixed inside case, single keying located(N), cable type 14 cores.

#### Fixed socket

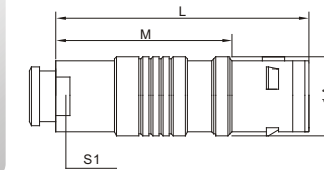
DG2KHZN06P50N : 2K series floating socket, single keying located(N), cable type: 6 cores, suitable for 5.0mm outer diameter of cable, cable collet fixing, black bend relief.

TT plug Standard straight water proof plug, key can prevent rotateing and misplug ( N , A, B.....W ) ,cable collet fixing.



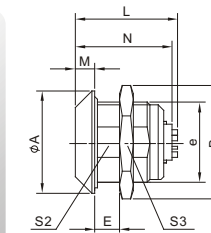
Project		Size			
Series	Type	A	L	M	S1
0K	TT	11	37.5	26.5	8
1K	TT	13	44	29	9
2K	TT	16	50	34	13
3K	TT	19	64	43	15

HT plug General type waterproof plug with jacket, key can prevent rotating and misplug ( N , A, B.....W ) , cable collet fixing, bend relief to prevent cable bending.



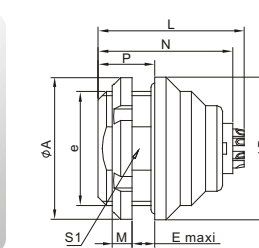
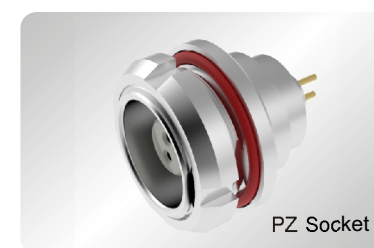
Project		Size			
Series	Type	A	L	M	S1
0K	HT	11	37.5	26.5	8
1K	HT	13	44	29	9
2K	HT	16	50	34	13
3K	HT	19	64	43	15

TZ socket Exterior installation and inside fixed general type socket, nut fixed inside case, key can prevent rotating and misplug ( N , A, B.....W ) .



Project		Size								
Series	Type	A	B	e	E	L	M	N	S1	S3
0K	TZ	18	19.7	M14*1.0	4.5	21.3	4	19	12.5	17
1K	TZ	20	22	M16*1.0	7.5	27.8	4.5	24	14.5	19
2K	TZ	25	28	M20*1.0	8.0	29	5	24	18.5	24
3K	TZ	31	34	M24*1.0	10	36.1	6	31.6	22.5	30

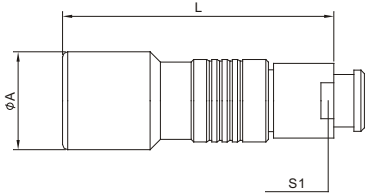
PZ socket Inside installation general type socket, exterior case fixed, key can prevent rotating and misplug ( N , A, B.....W ) .



Project		Size								
Series	Type	A	B	e	E	L	M	N	S1	P
0K	PZ	18	18	M14*1.0	3.5	22	2.5	19	12.5	7
1K	PZ	20	20	M16*1.0	6.0	27.8	3	24	14.5	10
2K	PZ	25	25	M20*1.0	5.5	29	3.5	23.8	18.5	10
3K	PZ	30	31	M24*1.0	7.5	36.1	4.5	31.6	22.5	12

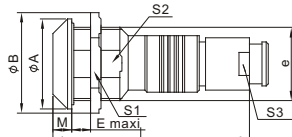


**HZ socket** Hanging socket, for connecting cable, key can prevent rotating and misplug ( N , A、B.....W ) , cables collet fixing., Bend relief to prevent cable bending.



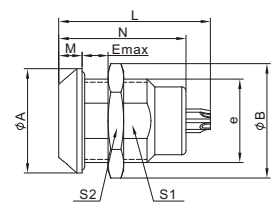
Project		Size		
Series	Type	L	A	S1
0K	HZ	34	13.0	8.0
1K	HZ	45	15	9.0
2K	HZ	53	19	13
3K	HZ	65	22.6	15

**KZ socket** Fixed by nut inside case, key can prevent rotating and misplug ( N , A、B.....W ) , cables collet fixing.



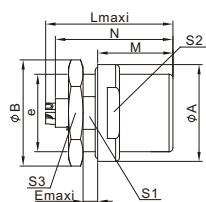
Project		Size								
Series	Type	A	B	e	E	L	M	S1	S2	S3
0K	KZ	18	19.7	M14*1.0	5	34	4	17	12.5	8
1K	KZ	20	21.9	M16*1.0	8	45	4.5	19	14.5	9
2K	KZ	25	27.7	M20*1.0	8	53.2	5	24	18.5	13
3K	KZ	31	34	M24*1.0	10	65	6	30	22.5	15

**FZ socket** Fixed inside case, key can prevent rotating and misplug ( N , A、B.....W ) ,vacuum sealed socket.

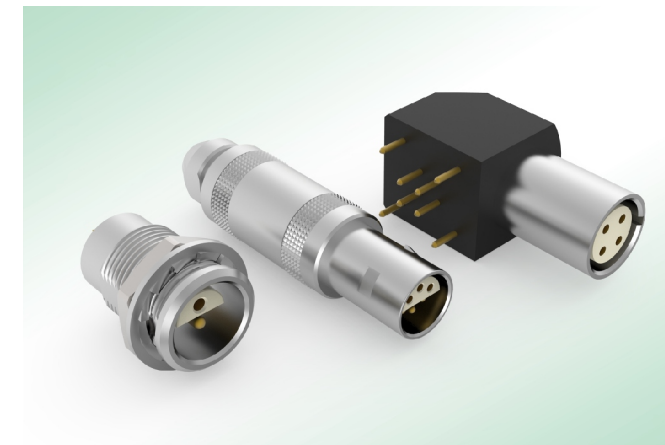


Project		Size									
Series	Type	A	B	e	E	L	M	N	S1	S2	
0K	FZ	18	19.7	M14*1.0	5	22.6	4	19.4	17.0	12.5	
1K	FZ	20	21.9	M16*1.0	8	29.2	4.5	24.5	19.0	14.5	
2K	FZ	25	27.7	M20*1.0	8	27.3	5	24.5	24	18.5	
3K	FZ	31	34	M24*1.0	14	41.7	6	34	22.5	30	

**DZ socket** Fixed socket. Nut fixing inside case, bulge type, key can prevent rotating and misplug ( N , A、B.....W ) .



Project		Size										
Series	Type	A	B	e	E	L	M	N	S1	S2	S3	
0K	DZ	18	19.7	M14*1.0	2	21	10.5	19.2	12.5	15	17	
1K	DZ	20	21.9	M16*1.0	2	26	15.5	24.2	14.5	17	19	
1K	DZ	25	27.7	M20*1.0	2	30	17.0	26.2	18.5	20	24	



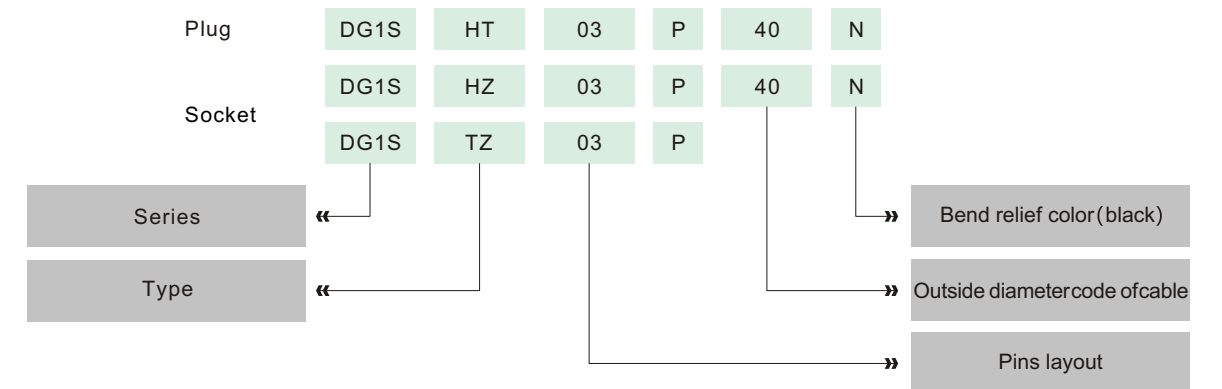
**Main features of B series connector :**

- Safe semicircular push-pull locking system.
- Multicore type , 2-6.
- Soldering and PCB pin ( Straight and angled type ) .
- High density installation, saving space.
- High-low insulator positioning, avoid misplug.
- 360 degree shield provides EMC protection in all directions.

**Components of connector :**

- Shell is using copper alloy , Cr or Ni plated , stainless steel is available.
- Contact pin and contact hole are using copper alloy , plated gold.
- Insulator is using engineering plastics which has high temperature resistance and good insulating property.
- Bend relief bushing is using soft engineering plastics which can protect cable well.

**B series product numbering rule :**



**Product numbering example :**

**Straight plug with protecting bush**

DG1SHT06P50N: 1S series straight plug, cable type 6 cores, suitable for 5.0mm outer diameter cable, cable collet fixing, black bend relief.

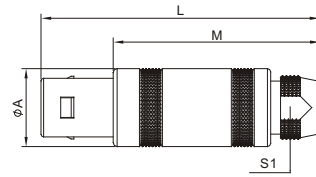
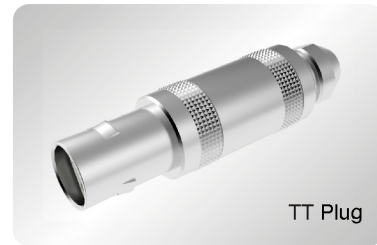
**Fixed socket**

DG1SSZ05P: 1S series fixed socket, double nut fixed, cable type 5 cores.

**Floating socket**

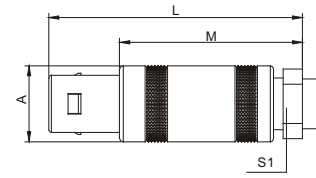
DG1SHZ04P50N: 1S series floating socket, cable type 4 cores, suitable for 5.0mm outer diameter of cable, cable collet fixing, black bend relief.

TT plug Standard straight plug, cable collet fixed, internal parts prevent cables from rotating.



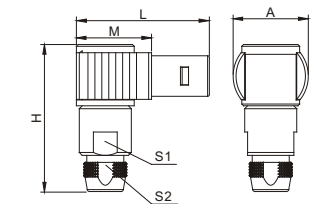
Project		Size			
Series	Type	A	L	M	S1
0S	TT	8.8	34.5	24.5	6.5
1S	TT	11.8	42.5	31.5	9
2S	TT	14.8	52	40	11

HT plug Standard straight plug, cable collet fixed, internal parts prevent cables from rotating Jacket prevent cables from bending.



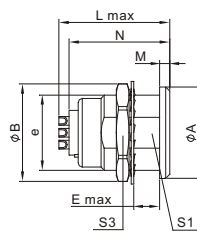
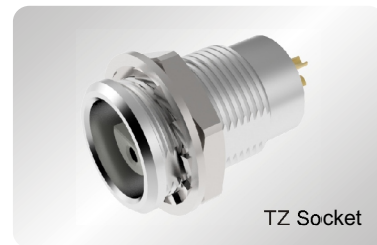
Project		Size			
Series	Type	A	L	M	S1
0S	HT	8.8	34.5	24.5	6.5
1S	HT	11.8	39.5	28.5	9
2S	HT	14.8	52	40	11

WT plug 90° angled plug, cable collet fixed, internal parts prevent cables from rotating Jacket prevent cables from bending.



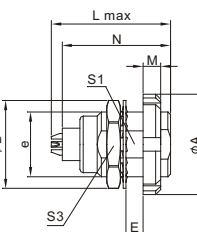
Project		Size					
Series	Type	A	L	M	H	S1	S2
0S	WT	13	23	13	25.3	8	6.5
1S	WT	16	26.5	15.5	28.8	10	8.5
2S	WT	20	31	19	37	13	11

TZ Socket Fixed socket Nut fixing inside case.



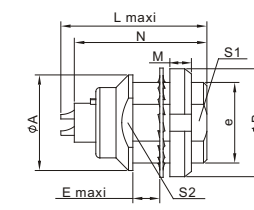
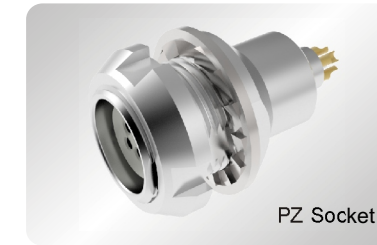
Project		Size								
Series	Type	A	B	e	E	L	M	S1	S2	S3
0S	TZ	10	12.3	M9*0.5	7	19	1.2	17	8.2	11
1S	TZ	14	16	M12*1.0	7.5	20.3	1.5	17.8	10.5	17
2S	TZ	18	19.2	M15*1.0	8	24.8	2	24	13.5	14

SZ Socket Fixed socket fixed inside and outside the case with nut.



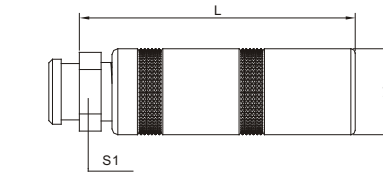
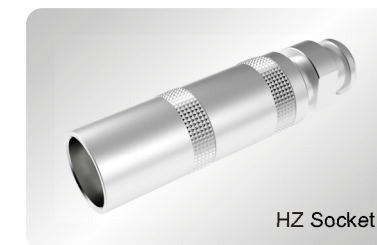
Project		Size								
Series	Type	A	B	e	E	L	M	S1	S2	S3
0S	SZ	12	12.5	M9*0.5	5.5	19	2.5	17	8.2	11
1S	SZ	16	16	M12*1.0	6.0	20.3	3.2	17.8	10.5	17
2S	SZ	20	19.5	M15*1.0	6.5	24.8	3.5	24.5	13.5	17

PZ Socket Fixed socket fixed outside the case.



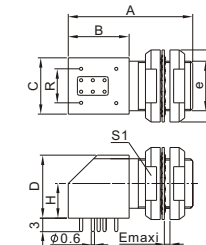
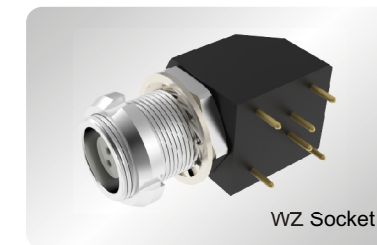
Project		Size								
Series	Type	A	B	e	E	L	M	N	S1	S4
0S	PZ	12	12.5	M9*0.5	5.5	19	2.5	17	8.2	11
1S	PZ	16	16	M12*1.0	6.0	20.3	3.2	17.8	10.5	14
2S	PZ	20	19.5	M15*1.0	6.5	24.8	3.5	24.5	13.5	17

HT socket Hanging socket, for connecting cables, cable collet fixing, bend relief prevent cables from bending.



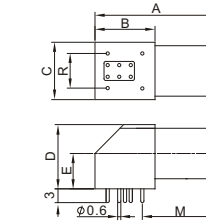
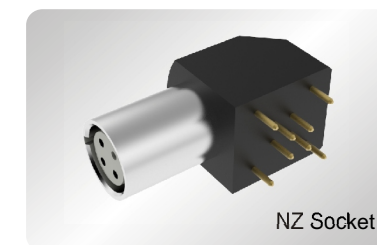
Project		Size		
Series	Type	L	A	S1
0S	HZ	34	8.8	7
1S	HZ	40	11.8	9
2S	HZ	46	14.8	12

WZ socket 90°PCB soldered socket, double nuts fixed, key can prevent rotating and misplug ( N , A, B.....W ), for corresponding photos of welding end and socket end ,please see this page.



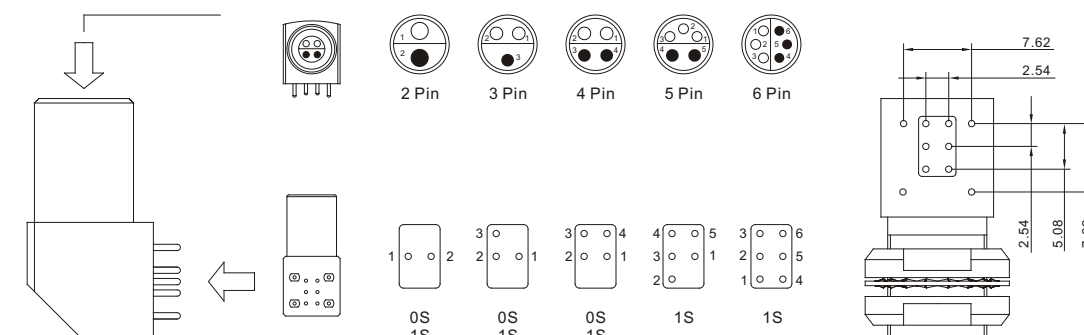
Project		Size									
Series	Type	A	B	e	C	D	E	F	M	H	S1
0S	WZ	25	13.3	M9*0.5	11.7	12.7	3.5	12	14.6	6.7	10.5
1S	WZ	27	13.3	M11*0.5	12.6	14	5.0	14	16.6	7.5	12

NZ socket 90°PCB soldered socket, double nuts fixed, key can prevent rotating and misplug ( N , A, B.....W ), for corresponding photos of welding end and socket end ,please see this page.



Project		Size								
Series	Type	A	B	C	D	E	F	M	d	
0S	NZ	25	13.3	11.7	12.7	6.7	12	14.6	0.7	
1S	NZ	27	13.3	12.6	14	7.5	14	16.6	0.7	

soldering block end and inserting hole end related photo





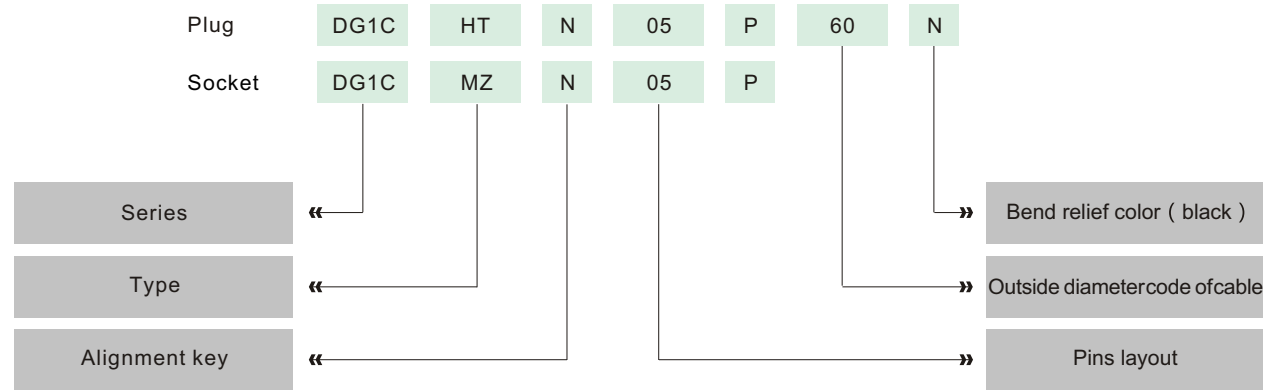
**Main features of B series connector :**

- Safe semicircular push-pull locking system.
- Multicore type , 2-26.
- Soldering and PCB pin ( Straight and angled type ) .
- High density installation, saving space.
- 360 degree shield provides EMC protection in all directions.
- Socket with vacuum seal structure, suitable for closed equipment.
- Multiple key positions of plug available, avoid misplug among similar connectors.

**Components of connector :**

- Shell is using copper alloy , Cr or Ni plated , stainless steel is available.
- Contact pin and contact hole are using copper alloy , plated gold.
- Insulator is using engineering plastics which has high temperature resistance and good insulating property.
- Protecting bushing is using soft engineering plastics which can protect cable well.
- Water proof seal ring is using high temperature resistance silicone rubber.

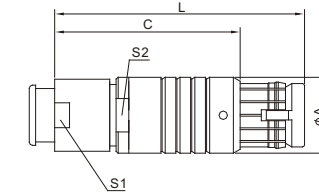
**C series product numbering rule :**



**Product numbering example :**

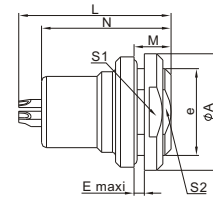
- DG1CHTN08P60N : 1C series Standard straight plug, multi-core type 8 core, cable collet fixing, black bend relief.
- DG2CMZN05P : 2C series fixing socket, vacuum seal socket, outer nuts fixed structure, single key location(N), multi-core type 5 cores.
- DG0CHZN06P : 0C series Hanging socket, used for the connection between the cables, cable collet fixed cable , single key location, multi-core type 6 cores.

HT plug Standard universal straight plug, key can prevent rotating and misplug ( N , A, B.....W ) , cable collet fixed.



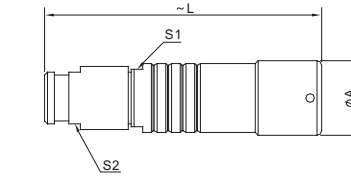
Project		Size				
Series	Type	L	A	C	S1	S2
0C	HT	40	9.5	30	8	8
1C	HT	45	12	34	9	10
2C	HT	54	15	42	13	13
3C	HT	57	18	42	16	16

MZ socket Vacuum seal socket, fixed outside the Chassis, key can prevent rotating and misplug ( N , A, B.....W ) .



Project		Size							
Series	Type	A	L	e	N	M	S1	S2	E
0C	MZ	14	21	M10*0.5	17	6.5	9	10.5	3
1C	MZ	19	25	M14*1.0	21	6.0	12	17	3
2C	MZ	21	29	M17*1.0	25	6.0	14.5	19	3
3C	MZ	26	31.5	M20*1.0	27	6.0	18	23	3

HZ socket Used for the connection between the cables, key can prevent rotating and misplug ( N , A, B.....W ) , cable collet fixed, waterproof type.



Project		Size			
Series	Type	A	L	S1	S2
0C	HZ	10	39	8	8
1C	HZ	13	48	10	10



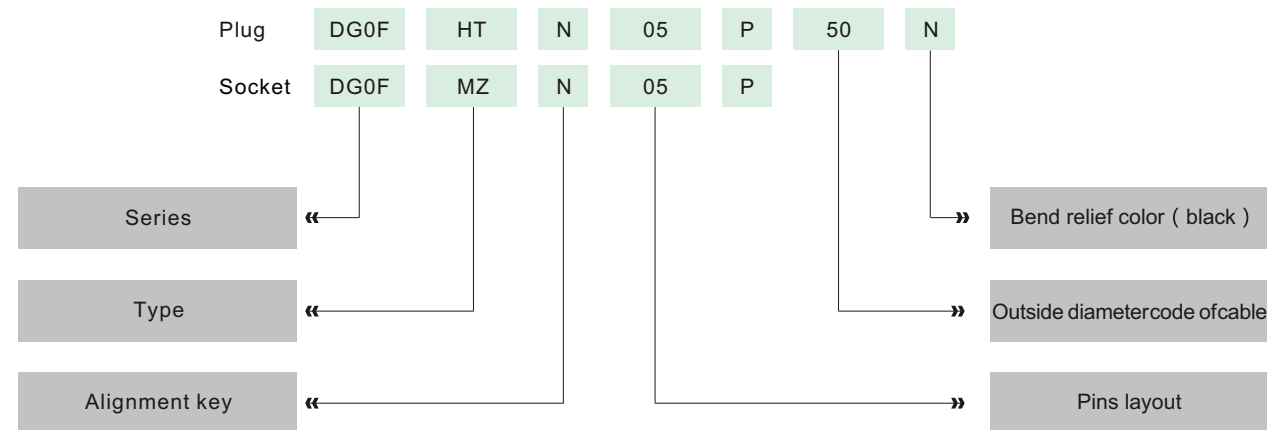
**Main features of F series connector :**

- Safe semicircular push-pull locking system.
- Multicore type , 2-21.
- Soldering and PCB pin ( Straight and angled type ) .
- High density installation, saving space.
- 360 degree shield provides EMC protection in all directions.
- Socket with vacuum seal structure suitable for closed equipment.
- Multiple key positions of plug available, avoid misplug among similar connectors.

**Components of connector :**

- Shell is using copper alloy , Cr or Ni plated , stainless steel is available.
- Contact pin and contact hole are using copper alloy , gold plated.
- Insulator is using engineering plastics which has high temperature resistance and good insulating property.
- Protecting bushing is using soft engineering plastics which can protect cable well.
- Water proof seal ring is using high temperature resistance silicone rubber.

**F series product numbering rule :**



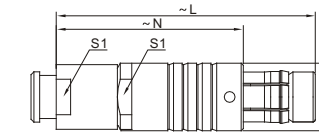
**Product numbering example :**

DG0FHTN05P50N : 0F series Standard straight plug, multi-core type 5 core, cable clamp fixing, internal parts prevent cables rotating, semicircle metal prevent wrong insertion.

DG1FMZN06P : 1F series vacuum seal socket, outer nuts fixed structure, multi-core type 6 cores.

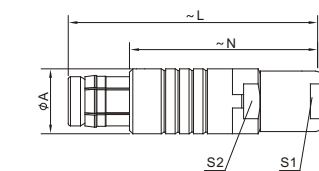
DG1FSZN03P : 1F series fixing socket, nut fixed inside case, semicircle metal prevent wrong insertion, single key location, multi-core type 3 cores.

HT plug Standard straight plug, cable collet fixed, internal parts prevent cables from rotating, Semicircular metal prevent wrong insertion, bend relief prevent cables from bending.



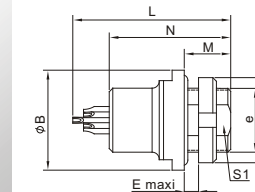
Project		Size				
Series	Type	A	L	N	S1	S2
0F	HT	9.4	36	26	8	8
1F	HT	11.8	44.8	33.8	9	10

TT plug Standard straight plug, cable collet fixed, internal parts prevent cables from rotating, semicircular metal prevent wrong insertion.



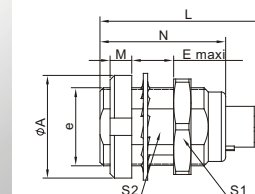
Project		Size				
Series	Type	A	L	N	S1	S2
0F	TT	9.4	36	26	8	8
1F	TT	11.8	44.8	33.8	9	10

MZ socket Vacuum sealed socket, Outer nuts fixed structure, semicircular metal prevent wrong insertion.



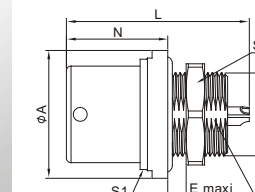
Project		Size							
Series	Type	L	N	A	N	e	S1	E	M
0F	MZ	21	17	12	14	M9*0.5	8.2	3	6
1F	MZ	24.7	21	18.8	18	M14*1.0	12	3	6

SZ socket Fixed inside the case, semicircular metal prevent wrong insertion, IP50.





Project		Size							
Series	Type	L	N	A	e	N	S1	E	M
0F	SZ	20	14.5	12	M9*0.5	11	8	7	2.5
1F	SZ	24	16.5	16	M12*1.0	14	10	7	3.2









DZ socket Vacuum sealed socket, inner nuts fixed structure, semicircular metal prevent wrong insertion.



Project		Size							
Series	Type	L	N	A	e	S1	S2	S3	E
0F	DZ	22.5	11	14	M9*0.5	12	11	8.2	5
1F	DZ	26	15.5	18	M14*1.0	14	17	12	4

Suitable For B Series And K Series Insulators

Series	00						
Hole array							
Number of pins	2 Pin	3 Pin	4 Pin				
Contact diameter (mm)	0.5	0.5	0.5				
Contact resistance (mΩ)	10	10	10				
Rated current ( A )	5	3	2				
Test voltage ( V )	1000	800	800				
Rated Voltage ( V )	330	260	260				
Series	0B-0K-0C						
Hole array							
Number of pins	2 Pin	3 Pin	4 Pin	5 Pin	6 Pin	7 Pin	8 Pin
Contact diameter (mm)	0.9	0.9	0.7	0.7	0.5	0.5	0.5
Contact resistance (mΩ)	6	6	7.5	7.5	10	10	10
Rated current ( A )	10	8	7	6.5	2.5	2.5	2
Test voltage ( V )	1300	1200	850	850	800	800	600
Rated Voltage ( V )	430	400	280	280	280	260	200
Series	1B-1K-1C						
Hole array							
Number of pins	2 Pin	3 Pin	4 Pin	5 Pin	6 Pin	7 Pin	
Contact diameter (mm)	1.3	1.3	0.9	0.9	0.7	0.7	
Contact resistance (mΩ)	5	5	6	6	7.5	7.5	
Rated current ( A )	15	12	10	9	7	7	
Test voltage ( V )	1500	1300	1300	1250	1050	950	
Rated Voltage ( V )	500	430	430	415	350	315	
Series	1B-1K-1C						
Hole array							
Number of pins	8 Pin	10 Pin	12 Pin	14 Pin			
Contact diameter (mm)	0.7	0.5	0.5	0.5			
Contact resistance (mΩ)	7.5	10	10	10			
Rated current ( A )	5	2.5	2	2			
Test voltage ( V )	950	900	850	800			
Rated Voltage ( V )	315	300	280	260			

Series	2B-2K-2C					
Hole array						
Number of pins	2 Pin	3 Pin	4 Pin	5 Pin	6 Pin	8 Pin
Contact diameter (mm)	2.0	1.6	1.3	1.3	1.3	0.9
Contact resistance (mΩ)	3	4	5	5	5	6
Rated current ( A )	30	17	15	14	12	10
Test voltage ( V )	2100	2400	1850	1750	1350	1500
Rated Voltage ( V )	700	800	610	580	450	500
Series	2B-2K-2C					
Hole array						
Number of pins	10 Pin	12 Pin	14 Pin	16 Pin	19 Pin	26 Pin
Contact diameter (mm)	0.9	0.7	0.7	0.7	0.7	0.5
Contact resistance (mΩ)	6	7.5	7.5	7.5	7.5	10
Rated current ( A )	8	7	6.5	6	5	2
Test voltage ( V )	1450	1250	1150	950	850	950
Rated Voltage ( V )	500	480	380	315	280	315
Series	3B-3K-3C					
Hole array						
Number of pins	3 Pin	4 Pin	5 Pin	6 Pin	10 Pin	12 Pin
Contact diameter (mm)	2.0	2.0	1.6	1.3	1.3	0.9
Contact resistance (mΩ)	3	3	4	5	5	6
Rated current ( A )	25	19	19	13	12	9
Test voltage ( V )	1900	1450	1900	1650	1250	1250
Rated Voltage ( V )	625	475	625	545	415	415
Series	3B-3K-3C					
Hole array						
Number of pins	14 Pin	16 Pin	18 Pin	21 Pin	26 Pin	30 Pin
Contact diameter (mm)	0.9	0.9	0.9	0.7	0.7	0.7
Contact resistance (mΩ)	6	6	6	7.5	7.5	7.5
Rated current ( A )	9	8	7	6	4	3.5
Test voltage ( V )	1200	1200	1200	1000	950	800
Rated Voltage ( V )	395	395	395	330	315	265

**Pin Layout, Suitable For S Series Insulators**

Series	0S	
Insulators plug (left) arrangement and socket (right) arrangement		
Number of pins	2 Pin	3 Pin
Contact diameter (mm)	0.9	0.7
Contact resistance (mΩ)	6	7.5
Rated current ( A )	10	7
Test voltage ( V )	1500	1000
Rated Voltage ( V )	500	330

Series	1S					
Insulators plug (left) arrangement and socket (right) arrangement						
Number of pins	2 Pin	3 Pin	4 Pin	5 Pin	5 Pin	6 Pin
Contact diameter (mm)	1.3	0.9	0.9	0.9	0.7	0.7
Contact resistance (mΩ)	5	6	6	6	7.5	7.5
Rated current ( A )	15	10	10	10	7	7
Test voltage ( V )	1200	1200	1200	1500	1500	1500
Rated Voltage ( V )	400	400	400	500	500	500

Series	0F							
Hole array	Single key Plug Single key Socket							
	Double keys Plug Double keys Socket							
Number of pins	2 Pin	3 Pin	4 Pin	5 Pin	6 Pin	7 Pin	9 Pin	
Contact diameter (mm)	0.9	0.9	0.7	0.7	0.5	0.5	0.5	
Contact resistance (mΩ)	6	6	7.5	7.5	10	10	10	
Rated current ( A )	10	8	7	6.5	2.5	2.5	2	
Test voltage ( V )	1300	1200	850	850	850	800	600	
Rated Voltage ( V )	430	400	280	280	280	260	200	

Series	1F						
Hole array	Single key Plug Single key Socket						
Number of pins	2 Pin	3 Pin	4 Pin	5 Pin	6 Pin	7 Pin	
Contact diameter (mm)	1.3	1.3	0.9	0.9	0.7	0.7	
Contact resistance (mΩ)	5	5	6	6	7.5	7.5	
Rated current ( A )	15	12	10	9	7	7	
Test voltage ( V )	1500	1300	1300	1250	1050	950	
Rated Voltage ( V )	500	430	430	415	350	315	

Series	1F				
Hole array	Single key Plug Single key Socket				
Number of pins	8 Pin	10 Pin	12 Pin	14 Pin	
Contact diameter (mm)	0.7	0.5	0.5	0.5	
Contact resistance (mΩ)	7.5	10	10	10	
Rated current ( A )	5	2.5	2	2	
Test voltage ( V )	950	900	850	800	
Rated Voltage ( V )	315	300	280	260	

**PCB hole size of panel (for B Series ,K Series ,SZ Straight Socket, PZ Socket, MZ Socket)**

Number of pins	Types	0B、0K	1B、1K	2B、2K	Number of pins	Types	0B、0K	1B、1K	2B、2K
02	A	0.8	0.8	0.8	03	A	0.8	0.8	0.8
	D	2.2	2.8	4.4		D	2.3	3.0	4.6
04	A	0.6	0.8	0.8	05	A	0.6	0.8	0.8
	D	2.5	3.4	5.0		D	2.8	3.4	5.2
06	A	0.6	0.8		06	A			0.8
	D	3.0	3.7			D			5.6
07	A	0.6	0.8	0.8	08	A		0.8	
	D	3.0	3.7	5.8		D		3.8	
08	A			0.8	09	A	0.7		
	D			6.4		D	3.2		
10	A		0.6	0.8	12	A			0.8
	H		1.4	2.15		H			2.8
	D		3.95	6.2		D			6.5
14	A		0.6	0.8	16	A			0.8
	H		1.8	2.65		H			3.1
	D		4.4	6.5		D			6.6
19	A			0.8	26	A			0.6
	H			3.5		H			4.2
	D			6.7		D			7
						C			1.6

**PCB hole size of panel (for S Series , SZ Straight Socket, PZ Socket)**

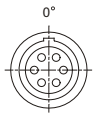
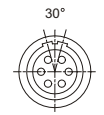
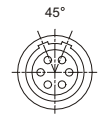
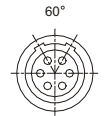
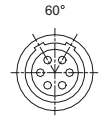
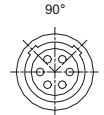
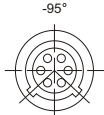
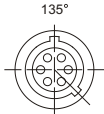
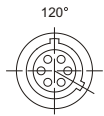
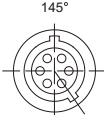
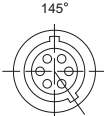
Number of pins	Types	0S	1S	Number of pins	Types	0S	1S	Number of pins	Types	0S	1S
02	A	0.8	0.8	03	A	0.8	0.8	04	A		0.8
	D	2.2	3.0		D	2.8	3.5		D		
05	A	0.8	0.8	06	A		0.8				
	D	2.8	3.5		D			3.5			

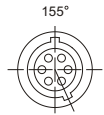
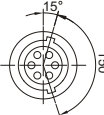
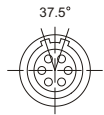
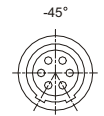
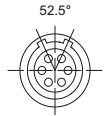
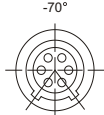
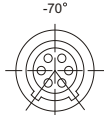
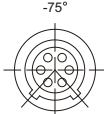
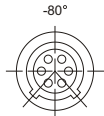
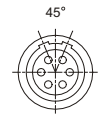
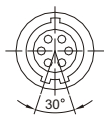
**PCB hole size of panel (for B Series ,K Series ,SZ Straight Socket, PZ Socket, Elbow 90° with of MZ Socket)**

The diagrams show various pin configurations and their corresponding PCB hole sizes. The configurations include:

- 0B-0K, 1B-1K, 2B-2K**: Standard configurations with pin spacings of 2.54 and 1.27.
- 0B-0K(φA=0.7), 1B-1K(φA=0.8)**: Configurations with specific pin diameters.
- 2B-2K**: Configurations with different pin spacings and diameters.
- 1B-1K(φA=0.7), 2B-2K(φA=0.8)**: Configurations with specific pin diameters and spacings.

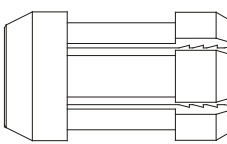
Locating Pin

Key No.	Simple Photo Description	Series							
		00	0B	1B	2B	3B	0K	1K	2K
N		●	●	●	●	●	●	●	●
A		●	●	●	●	●	●	●	●
B					●	●	●	●	●
			●	●					
C					●	●	●	●	●
			●	●					
D					●	●	●	●	●
			●	●					
E					●	●	●	●	●
			●	●					
F					●	●	●	●	●

Key No.	Simple Photo Description	Series							
		00	0B	1B	2B	3B	0K	1K	2K
F			●	●					
I				●					
J					●	●			
			●	●					
K					●	●			
			●	●					
L					●	●			
							●	●	●
			●	●					
M				●					
N			●	●	●	●	●	●	●

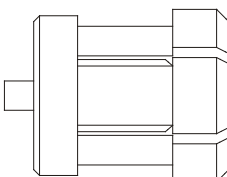


Cable Collet



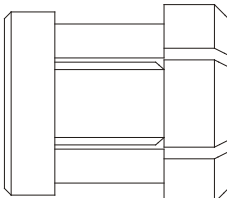
Cable Collet Code	Adaptive Cable Diameter	0S	1S
25	2.0-2.5	●	
30	2.6-3.0	●	●
35	3.1-3.5	●	●
40	3.6-4.0	●	●
45	4.1-4.5		●
50	4.6-5.0		●

Suitable for S series



Cable Collet Code	Adaptive Cable Diameter	00	0B	1B	2B	3B
25	2.0-2.5	●	●			
30	2.6-3.0	●	●			
35	3.1-3.5	●	●	●		
40	3.6-4.0		●	●	●	
45	4.1-4.5		●	●	●	●
50	4.6-5.0		●	●	●	●
60	5.1-6.0			●	●	●
70	6.1-7.0			●	●	●
80	7.1-8.0				●	●
90	8.1-9.0				●	●
01	9.1-10.0				●	●

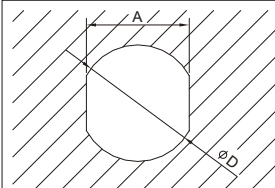
Suitable for B series



Cable Collet Code	Adaptive Cable Diameter	0K	1K	2K
40	3.6-4.0	●	●	
45	4.1-4.5	●	●	
50	4.6-5.0	●	●	●
60	5.1-6.0		●	●
70	6.1-7.0		●	●
75	7.1-7.5			●
80	7.6-8.0			●
85	8.1-8.5			●

Suitable for K series

PCB Hole size of panel



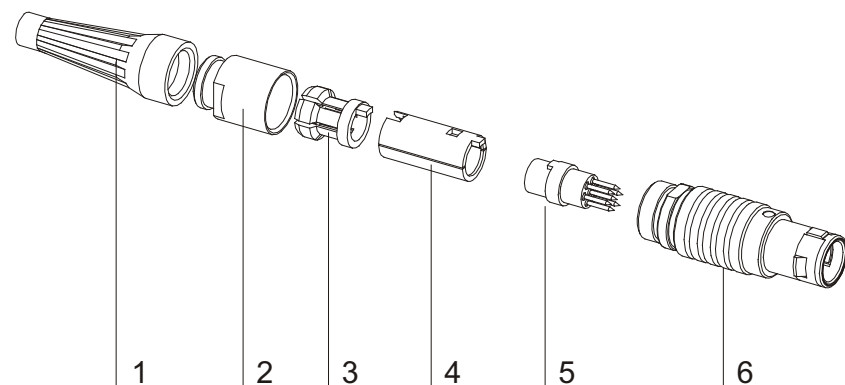
	00	0B	1B	2B	3B	0K	1K	2K	0S	1S
A		8.3	10.6	13.6	16.6	12.6	14.6	18.6	8.3	10.6
D		9.1	12.1	15.1	18.1	14.1	16.1	20.1	9.1	12.1

Bend relief

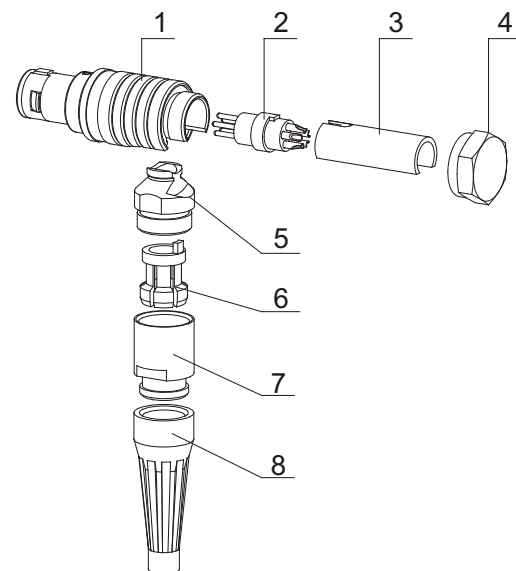
Bend relief Code	Adaptive Cable Diameter	0B	1B	2B	3B
25	2.5-2.9	●			
30	3.0-3.4	●	●		
35	3.5-3.9	●	●		
40	4.0-4.4	●	●	●	
45	4.5-5.0	●	●	●	
51	5.1-5.6		●	●	●
57	5.7-6.2		●	●	●
63	6.3-7.0		●	●	●
71	7.1-7.9		●	●	●
80	8.0-8.9			●	●
90	9.0-9.9			●	●
01	10.0-10.5				●

Bend relief Color

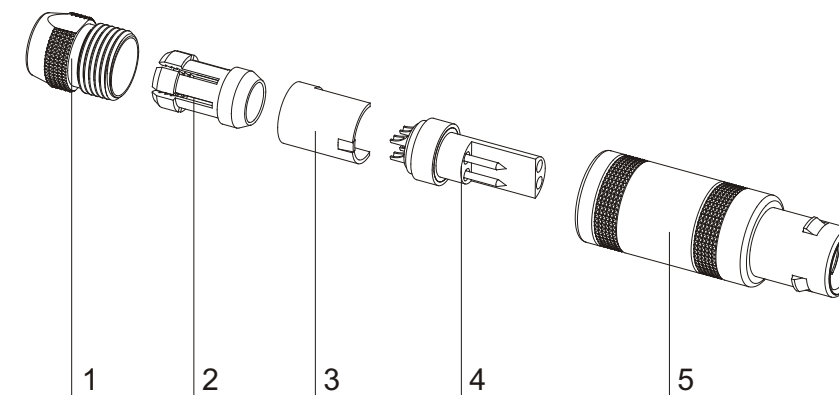
Color	Blue	White	Grey	Yellow	Brown
Code	A	B	G	J	M
Color	Black	Red	Orange	Green	
Code	N	R	S	V	

**Assembly method**
**B series connector plug**


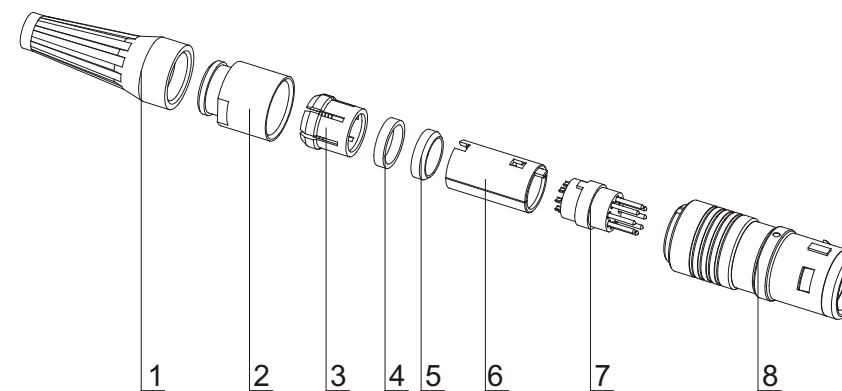
1. Please put the cable through the bend relief ①, the rear nut ②, the cable collet ③, and weld the cables in the insulator components ⑤ in sequence.
2. Please assemble two pieces insulator snap rings ④ onto the welded insulators components ⑤, and note that the gap on the snap ring ④ should correspond with the protrusions on insulator components ⑤.
3. Please install the cable clamp ③ on the proper position of the cable, and note that the protrusions on cable collet ③ should be correspond to the grooves on insulator snap ring ④.
4. Please put the insulators components ⑤, insulator snap ring ④, cable collet ③ into plug components in sequence, and note that the protrusions on insulator snap ring ④ should be installed in corresponding inner gap on plug components ⑥.
5. Lock the rear nuts ② onto plug components ⑥.
6. Put the bend relief ① on the corresponding step of the rear nuts ②.

**B series connector angled plug**


1. Put the cables through the bend relief ⑧, the rear nut ⑦, the cable collet ⑥, adaptor ⑤ and then weld the cables in the insulator components ② in sequence.
2. Assemble the insulator snap ring ③ onto the welded insulators components ②, and note that the gap on the snap ring ③ should correspond with protrusions on insulator components ②.
3. Install the snap ring ③, insulator components ② and adaptors into the plug components ①, and note that the adaptors should clip on the grooves of plug components ①.
4. Please adjust cable collet to the right position of cable, then install cable collet ⑥ on the adaptor ⑤, and note that the protrusions on cable collet ⑥ should correspond with the inner groove on adaptor ⑤ and cable collet ⑥ should clip the cable sheath.
5. Lock the rear nuts ⑦ onto adaptors ⑤.
6. Tighten the rear cover ④ onto the plug components.
7. Put the bend relief onto the corresponding steps of rear nuts. Put the jacket onto the corresponding steps of rear nuts.

**Assembly method**
**S series connector Plug**


1. The cables through the rear nut ①, the cable collet ②, insulator baffle ③, then weld the cables in the insulator components ④ in sequence.
2. Insulator baffle ③ onto the insulators components ④, note that the protrusions on Insulator baffle ③ should correspond with gap on the insulator components ④, and then adjust cable collet ② to the right position of cable.
3. Put the assembled cable collet ②, Insulator baffle ③ and insulators components ④ into plug components ⑤.
4. Lock the rear nuts ① onto plug components ⑤.

**K series connector plug**


1. The cables are put through the Bend relief ①, the rear nut ②, the cable collet ③, Cable sealed ring ④, Shielded cable wiring ring ⑤, and then weld the cables into the corresponding pins on the insulator components ⑦ in sequence.
2. Insulator snap ring ⑥ are assembled on the insulators components ⑦, please note that the gap on the Insulator snap ring ⑥ should correspond with protrusions on insulator components ⑦, then put the Shielded cable wiring ring ⑤, Cable sealed ring ④ and cable collet ③ to the right position, and ensure that the whole cable sheath are wired into Shielded cable wiring ring ⑤.
3. Put the assembled insulators components ⑦ into plug components ⑧, and note that gap on the Insulator snap ring ⑥ should correspond with the protrusions on plug components ⑧.
4. Lock the rear nuts ② onto plug components ⑧.
5. Put the Bend relief ① onto the rear nuts ②.