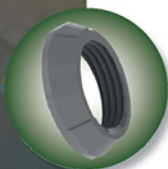
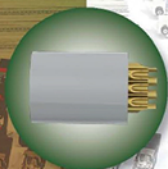
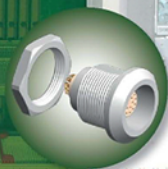
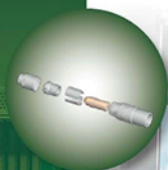


NEXTRON

Push-Pull Circular Connector SnapLatch™ Series

- Plastic SnapLatch Connector
- Metal SnapLatch Connector
- Micro SnapLatch Connector



Why Nextron?

Over 18 years experience in manufacturing surgery-class medical connector. Nextronics Engineering Corp. has proven itself as one of the most competitive manufacturers for push-pull circular connector. Nextronics partnership with customers with its highest quality, cost-saving, lead-time shortening products.

Nextronics push-pull circular connector has three series: Plastic SnapLatch, Metal SnapLatch and Micro SnapLatch. The products and services help customer in connection solution and edging the competitors.

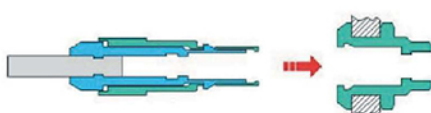
Keep investing, developing and expanding

Nextronics is a public company in Taiwan, we keep utilizing the resource to invest in technology, tooling, process for improving and expanding the products and markets. The current product extension may not be vast, but we commit to invest, and bring up the most competitive solution for customers.

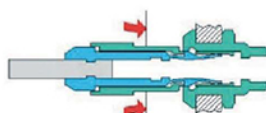
We know we can help

There are no doubt that too many connector manufacturers are making expensive products with long lead-time. We know we can help the customers with the problems, and we are here to make this happen. Averaging 4 weeks from order to ready-to-ship, Nextronics can get you time-to-the-market.

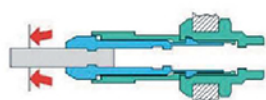
Push-Pull Latching System



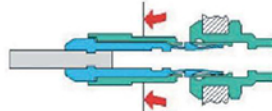
1. The push-pull locking system is widely used for quick and easy mating and unmating.



2. The mating between the connector is simply pushing the plug into the socket.



3. Once the connectors are mated, they cannot be unmated by pulling on the parts other than the release sleeve of the outershell.



4. To unmate the connectors, simply pull the release sleeve of the outershell.

Custom design

Nextronics engineering team is ready to work on custom connector design project anytime. Experienced and strong engineering team and FAE can definitely work with customers and come up with the optimum connection solutions.





Dependability

Years of manufacturing technology experience for high temperature injection, precision screw machining, and assembly automation. The quality of the product is unquestionably dependable and reliable.

Easy approach

The efficient cooperation of Nextronics team and customer is the key to process the project. Contact Nextronics and the assigned personnel will approach you immediately.

Series Applications	Plastic	Metal F*B	Metal F*K	Micro
Aviation		●	●	●
Automotive		●	●	●
Audio/Video		●	●	●
Communication		●	●	●
Industrial Control		●	●	●
Information System		●		●
Machine Industry	●	●	●	●
Medical	●	●	●	●
Nuclear		●	●	●
Petroleum		●	●	●
Public Sector	●	●	●	●
Research	●	●	●	●
Robotics		●	●	●
Test & Measurement	●	●	●	●

	Plastic SnapLatch Series	Metal SnapLatch F0B/F1B/F2B Series	Metal SnapLatch F0K/F1K/F2K Series	Micro SnapLatch Series
Picture				
Model Series Description	Standard plastic push-pull , multi-contact connectors with alignment key options	Standard metal push-pull , multi-contact connectors with alignment key options.	Watertight metal push-pull , multi-contact connectors with alignment key options, rugged shell for rough working conditions.	Flexible micro contact configuration allows small size, and vibration resistance. Potential diversity of applications.
Environment	Indoor (Surgery-class application)	Indoor	Outdoor	Indoor
Ingress Protection	IP50	IP50	IP67	IP50
Contact Configuration	<ul style="list-style-type: none"> • 2 to 14 contacts • Solder & print contacts 	<ul style="list-style-type: none"> • 2 to 32 contacts • Solder, print, crimp contacts 	<ul style="list-style-type: none"> • 2 to 32 contacts • Solder, print, crimp contacts 	<ul style="list-style-type: none"> • Up to 12 pins • Solder
Temperature	<ul style="list-style-type: none"> • PSU: -50 to 150°C • PEI: -50 to 170°C 	<ul style="list-style-type: none"> • -55 to 250°C 	<ul style="list-style-type: none"> • -55 to 250°C 	<ul style="list-style-type: none"> • -55 to 125°C
Major Features	<ul style="list-style-type: none"> • Push-Pull self latching • 6 keying options • 7 color codings • Gray or black outershell options • For cable Ø 2.7 to 6.5mm 	<ul style="list-style-type: none"> • Push-Pull self latching • 3 sizes • 13 keying options • 9 color codings • For cable Ø1.5 to 9.7mm 	<ul style="list-style-type: none"> • Push-Pull self latching • 3 sizes • 9 keying options • 9 color codings • For cable Ø1.0 to 8.5mm 	<ul style="list-style-type: none"> • Flex male contacts • Resisting vibration and shock
Characteristics	<ul style="list-style-type: none"> • Current rating:2 to 10A • Dielectric with standing voltage:0.6 to 1.2 kV rms • Insulation resistance:$10^{12} \Omega$ • Durability: 1000 cycles 	<ul style="list-style-type: none"> • Current rating:1.5 to 30A • Dielectric with standing voltage:0.6 to 2.4 kV rms • Insulation resistance: • Durability: >5000 cycles • Shielding: >75dB at 10Mhz >40dB at 1Ghz 	<ul style="list-style-type: none"> • Current rating:1.5 to 30A • Dielectric with standing voltage: 0.6 to 2.4 kV rms • Insulation resistance: • Durability: >5000 cycles • Shielding: >95dB at 10Mhz >80dB at 1Ghz 	<ul style="list-style-type: none"> • Current rating: 3 amps max. • Dielectric with standing voltage: 600VAC RMS • Insulation resistance: 26 milliohms max. • Durability: 500 cycles



Nextron Plastic SnapLatch connectors provide the following main features:

- ### Exploded View of Nextron Plastic SnapLatch

Straight plug



ROHS

M=MEDICAL

STYLE

A3=straight plug and nut for fitting a bend relief -----solder contact

C1=in-line receptacle -----solder contact
C3=in-line receptacle for fitting a bend relief -----solder contact

AA=straight plug -----crimp contact
AC=straight plug and nut for fitting a bend relief -----crimp contact

CA=in-line receptacle -----crimp contact
CC=in-line receptacle for fitting a bend relief -----crimp contact

OUTER SHELL MATERIAL

G=GREY PSU
B=BLACK PSU
F=BLACK PEI
P=GREY PEI

BACK NUT COLOUR

0=BLACK 2=RED 5=GREEN
1=WHITE 4=YELLOW 6=BLUE 8=GREY

NOTES:

1. THE MATERIAL OF THE BACK NUT FOR A3 AND C3 TYPE IS SAME AS THE OUTER SHELL.
2. CRIMP CONTACT IS ONLY FOR 2-8 PIN.

LOGO 0=N LOGO
G=NO LOGO

NUMBER OF CONTACTS	02=2 PIN	06=6 PIN	
	03=3 PIN	07=7 PIN	10=10 PIN
	04=4 PIN	08=8 PIN	14=14 PIN
	05=5 PIN	09=9 PIN	

CODING	$0=0^\circ$	$C=60^\circ$	$H=170^\circ$
	$A=40^\circ$	$E=80^\circ$	$J=205^\circ$

CABLE COLLET
2=Ø5.2mm (CABLEØ=4.0~5.2mm)
3=Ø6.5mm (CABLEØ=5.3~6.5mm)

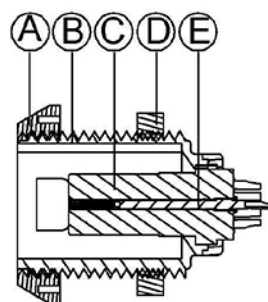
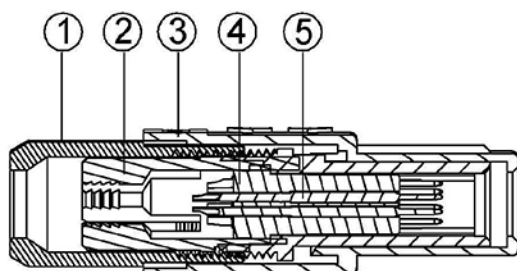
CONTACT PLATING 2=GOLD PLATED 20u"

CONTACT DIAMETER 1=1.3mm(ONLY FOR 2;3 PIN)
 2=0.9mm(ONLY FOR 4;5 PIN)
 3=0.7mm(ONLY FOR 6;7;8 PIN)
 4=0.5mm(ONLY FOR 9;10;14 PIN)

INSULATOR P=PEEK

Straight plug

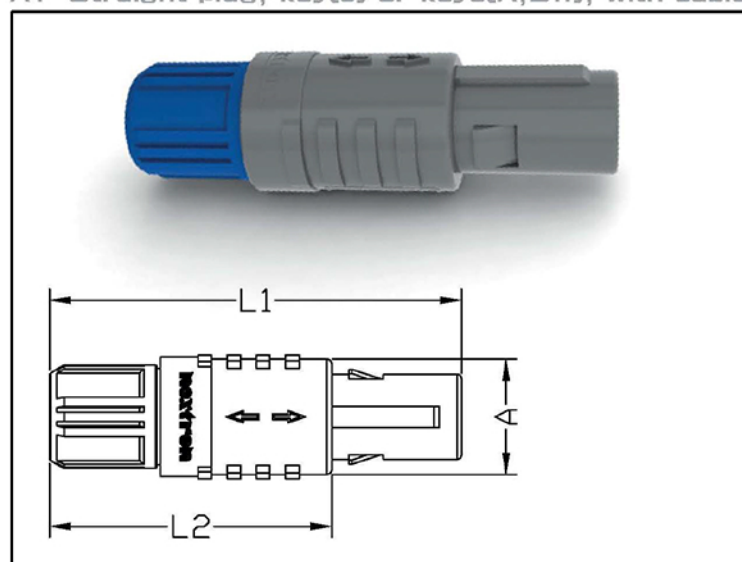
- 1 Back nut
- 2 Cable collet
- 3 Outershell
- 4 Insulator
- 5 Male contact



- Receptacle
- A Front nut
 - B Outershell
 - C Insulator
 - D Hex nut
 - E Female contact

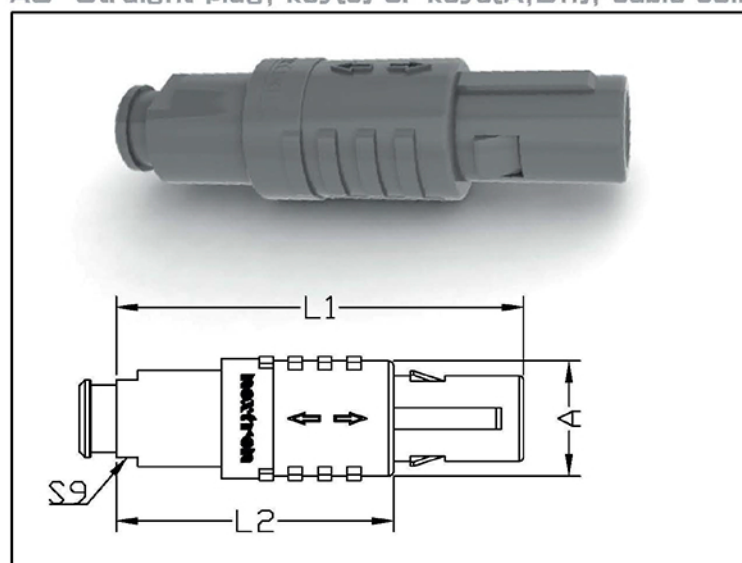
Characteristics	Value
Working temperature for PSU	-50/+150°C
Working temperature for PEI	-50/+170°C

A1 Straight plug, key(0) or keys(A,B..), with cable collet



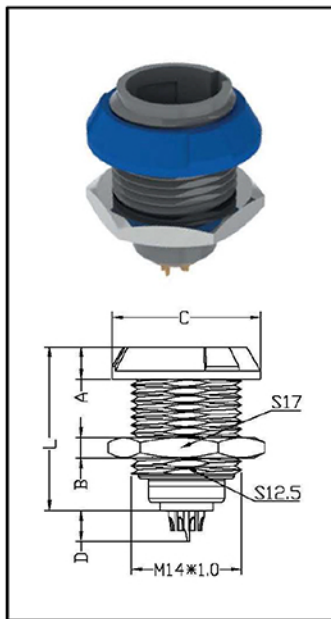
Dimensions in mm		
L1	L2	A
~47.0	~32.0	Ø13.9

A3 Straight plug, key(0) or keys(A,B..), cable collet and nut for bend relief



Dimensions in mm		
L1	L2	A
~47.0	~32.0	Ø13.9

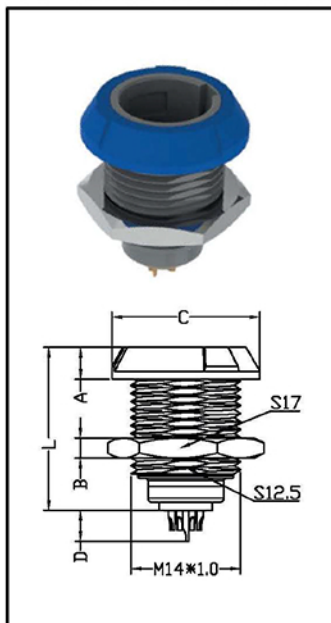
B1 Receptacle with two nuts, key(0) or keys(A,B..)



Dimensions in mm		
A	B	C
4.0	2.5	18.5

Number of Contacts	Contact				
	Solder		Crimp	Print	
	L	D max	L	D	Ø
02	20.3	2.5	22.2	6	0.7
04	20.3	2.5	22.2	6	0.7
05	20.3	2.5	22.2	6	0.7
06	20.3	2.5	22.2	4	0.5
07	20.3	3.9	22.2	4	0.5
08	20.3	3.9	22.2	4	0.5
09	20.3	3.9	-	4	0.5
10	20.3	3.9	-	4	0.5
14	20.3	3.9	-	4	0.5

B4 Receptacle, nut fixing, key(0) or keys(A,B..)

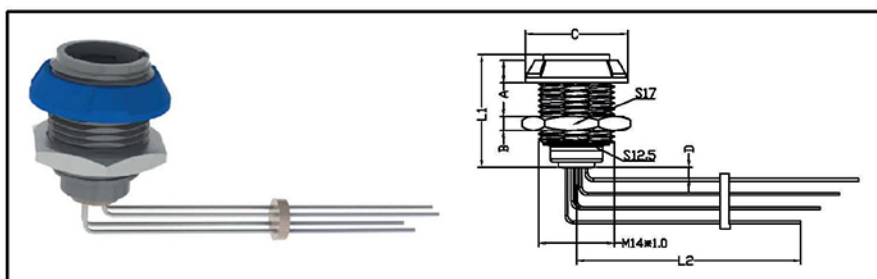


Dimensions in mm		
A	B	C
4.0	2.5	18.5

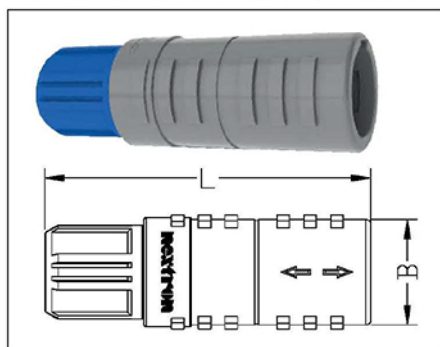
Number of Contacts	Contact				
	Solder		Crimp	Print	
	L	D max	L	D	Ø
02	20.3	2.5	22.2	6	0.7
04	20.3	2.5	22.2	6	0.7
05	20.3	2.5	22.2	6	0.7
06	20.3	2.5	22.2	4	0.5
07	20.3	3.9	22.2	4	0.5
08	20.3	3.9	22.2	4	0.5
09	20.3	3.9	-	4	0.5
10	20.3	3.9	-	4	0.5
14	20.3	3.9	-	4	0.5

B3 Receptacle with 90° contacts, key(0) or keys(A,B..)

Dimensions in mm					
L1	L2	A	B	C	D
20.3	20 min.	4.0	2.5	18.5	2

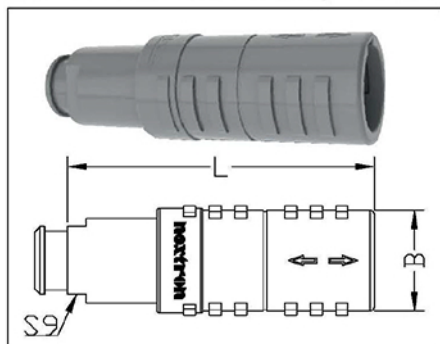


C1 In-line receptacle, key(0) or keys(A,B..), with cable collet



Dimensions in mm	
L	B
~41.0	Ø 13.9





















C3 In-line receptacle, key[0] or keys(A,B..), for bend relief



Dimensions in mm	
L	B
~41.0	Ø 13.9

Part number

RM ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☐ ☐ ☒

Number of contacts		02	03	04	05	06	07	08	09	10	14
View from termination side	Male										
	Female										
Test voltage(kv dc)		0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.3
Test voltage(kv rms) acc,IEC 60512-4-1 test 4a		1.2	1.2	1.2	1.05	1.05	1.05	1.05	0.85	0.85	0.6
Rated current acc,IEC 60512-5-1 test 5a		10	10	8	7	6	5	5	3	3	2
Creepage and clearance(mm) distance acc,IEC60664-1		1.3	1.3	1.2	0.8	0.85	0.85	0.6	0.65	0.5	0.5
Contact resistance(mΩ) acc,IEC60512-2-1 test 2a		<3.5	<3.5	<4.5	<4.5	<6.5	<6.5	<6.5	<8.5	<8.5	<8.5
Insulation resistance(GΩ) acc,IEC60512-3-1 test 3a		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Max,AWG/mm ²		20 0.5	20 0.5	22 0.38	22 0.38	26 0.15	26 0.15	26 0.15	28 0.08	28 0.08	28 0.08
Solder bucket Ø(mm)		1.1	1.1	0.85	0.85	0.65	0.65	0.65	0.45	0.45	0.45
Contact Ø(mm)		1.3	1.3	0.9	0.9	0.7	0.7	0.7	0.5	0.5	0.5

Part number RM ■■■■■■

Logo Selection

[illegible]

Outer Shell Material

Part number RM ■■■■■■

Nut Color

Part number RM ■■■■

Insulator Material

Part number RM ■■■■□■■■■■

Contact Diameter

Part number RM ■■■■□■■■■■ ■■■■□■■■■■

Gold Plating

Part number RM

Cable Collet

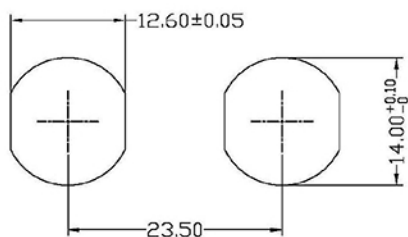
Part number RM ■■■■■■□■■■■■ **Part number** RM ■■■■■■□■■■■■

1=Ø3.9mm (Cable Ø=2.7~3.9mm)
2=Ø5.2mm (Cable Ø=4.0~5.2mm)
3=Ø6.5mm (Cable Ø=5.3~6.5mm)
0=No cable collet (B type only)



Panel Cutout

Panel cutout

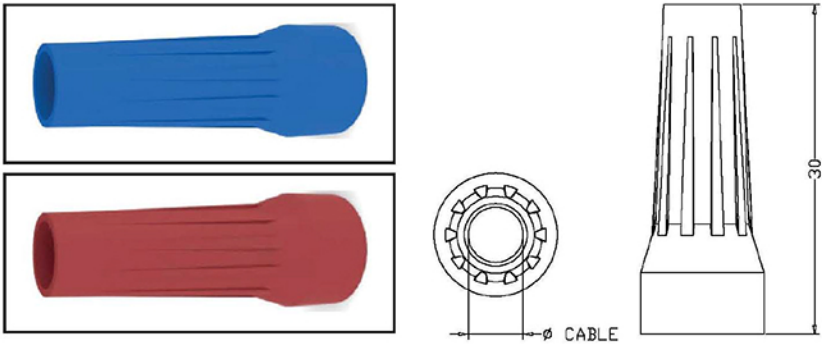


PCB Drilling

FOR 90° ELBOW CONTACTS, SEE FROM A-A VIEW.

<p>A-A view of the 90° elbow contacts showing the internal wiring and contact points.</p>	<p>4 PIN</p> <p>Diagram showing the 4 PIN configuration with dimensions: 2.54 (pitch), $4 \times \phi 0.7^{+0.1}_{-0}$ (drill holes).</p>	<p>5 PIN</p> <p>Diagram showing the 5 PIN configuration with dimensions: 2.54 TYP. (pitch), 1.27 TYP. (pitch), $5 \times \phi 0.7^{+0.1}_{-0}$ (drill holes).</p>
<p>6 PIN</p> <p>Diagram showing the 6 PIN configuration with dimensions: 1.27 TYP. (pitch), 2.54 TYP. (pitch), $6 \times \phi 0.7^{+0.1}_{-0}$ (drill holes).</p>	<p>7 PIN</p> <p>Diagram showing the 7 PIN configuration with dimensions: 1.27 TYP. (pitch), 2.54 TYP. (pitch), $7 \times \phi 0.7^{+0.1}_{-0}$ (drill holes).</p>	<p>8 PIN</p> <p>Diagram showing the 8 PIN configuration with dimensions: 2.54 TYP. (pitch), $8 \times \phi 0.7^{+0.1}_{-0}$ (drill holes).</p>
<p>9 PIN</p> <p>Diagram showing the 9 PIN configuration with dimensions: 1.27 TYP. (pitch), 2.54 TYP. (pitch), $9 \times \phi 0.7^{+0.1}_{-0}$ (drill holes).</p>	<p>10 PIN</p> <p>Diagram showing the 10 PIN configuration with dimensions: 1.27 TYP. (pitch), 2.54 TYP. (pitch), $10 \times \phi 0.7^{+0.1}_{-0}$ (drill holes).</p>	<p>14 PIN</p> <p>Diagram showing the 14 PIN configuration with dimensions: 1.27 TYP. (pitch), 2.54 TYP. (pitch), $14 \times \phi 0.7^{+0.1}_{-0}$ (drill holes).</p>
<p>2 PIN</p> <p>Diagram showing the 2 PIN configuration with dimensions: 2.54 (pitch), $2 \times \phi 0.9^{+0.1}_{-0}$ (drill holes).</p>	<p>3 PIN</p> <p>Diagram showing the 3 PIN configuration with dimensions: 2.54 (pitch), $3 \times \phi 0.9^{+0.1}_{-0}$ (drill holes).</p>	

Bend Relief



Material: silicone
Temperature range :-50~200°C

Part number	Cable Ø (mm)	
	Min.	Max.
ZMD1S X 0250	>2.5	3.0
ZMD1S X 0300	>3.0	3.5
ZMD1S X 0350	>3.5	4.0
ZMD1S X 0400	>4.0	4.5
ZMD1S X 0450	>4.5	5.0
ZMD1S X 0500	>5.0	5.5
ZMD1S X 0550	>5.5	6.0
ZMD1S X 0600	>6.0	6.5

Color	Code	Color
	0	Black
	2	Red
	3	White
	4	Yellow
	5	Green
	6	Blue
	8	Grey

X=color code



Insulator+Contact Type

INSULATOR+CONTACTS P/N DESCRIPTION:

R M X X 0 0 P X 2 0 0 X X 0

M=MEDICAL

STYLE

S5=MALE INSULATOR

S6=FEMALE INSULATOR

INSULATOR MATERIAL

P=PEEK

CONTACT DIAMETER

1=1.3mm(ONLY FOR 2;3 PIN)

2=0.9mm(ONLY FOR 4;5 PIN)

3=0.7mm(ONLY FOR 6;7;8 PIN)

4=0.5mm(ONLY FOR 9;10;14 PIN)

NUMBER OF CONTACTS

02=2 PIN 06=6 PIN

03=3 PIN 07=7 PIN 10=10 PIN

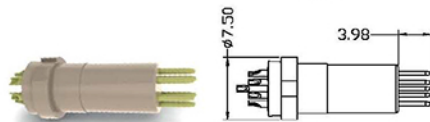
04=4 PIN 08=8 PIN 14=14 PIN

05=5 PIN 09=9 PIN

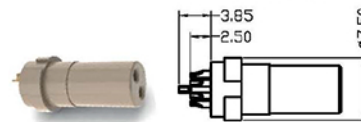
CONTACT PLATING

2=GOLD PLATED 20µ"

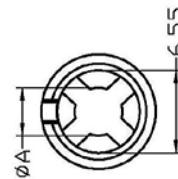
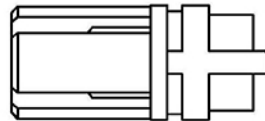
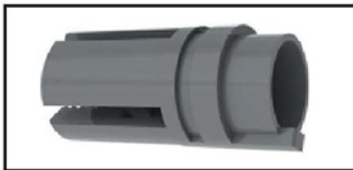
MALE



FEMALE



Cable Collet

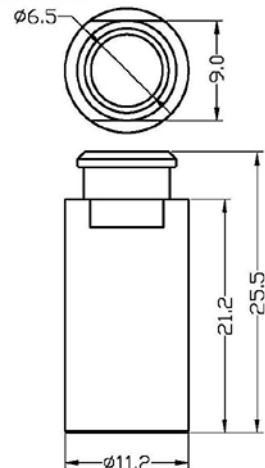
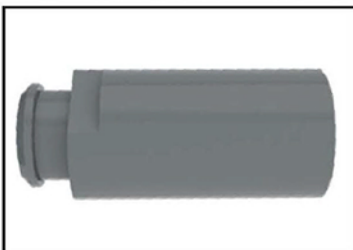


Part number	Color	Material
ZMS7B0000X0000	Black	PSU
ZMS7G0000X0000	Grey	PSU
RMS7F0000X0000	Black	PEI
RMS7P0000X0000	Grey	PEI

Code	ØA(mm)	Cable Ø (mm)
1	Ø3.9	2.7~3.9
2	Ø5.2	4.0~5.2
3	Ø6.5	5.3~6.5

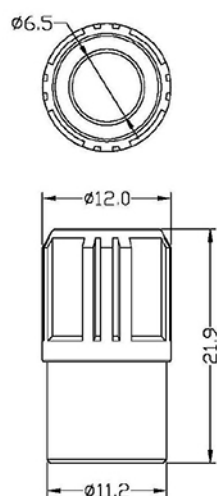
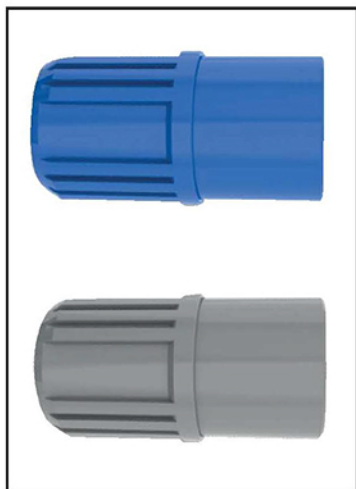
X= Code

Back Nut for Bend Relief



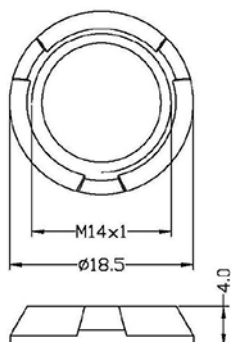
Part number	Color	Material
ZMSBN0000000000	Black	PSU
ZMSBN8000000000	Grey	PSU
RMSBT0000000000	Black	PEI
RMSBT8000000000	Grey	PEI

Back Nut



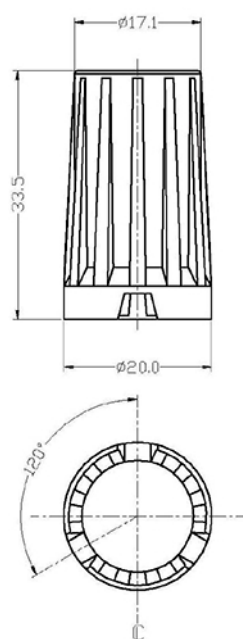
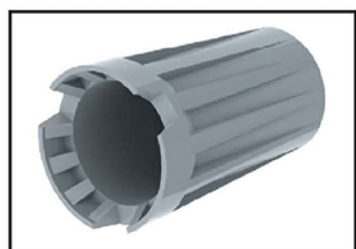
Part number	Color	Material
ZMSAN000000000	Black	PSU
RMSAN100000000	White	PSU
ZMSAN200000000	Red	PSU
RMSAN400000000	Yellow	PSU
RMSAN500000000	Green	PSU
RMSAN600000000	Blue	PSU
ZMSAN800000000	Grey	PSU
RMSAT000000000	Black	PEI
RMSAT800000000	Grey	PEI

Front Nut



Part number	Color	Material
ZMSCN000000000	Black	PSU
RMSCN100000000	White	PSU
ZMSCN200000000	Red	PSU
RMSCN400000000	Yellow	PSU
RMSCN500000000	Green	PSU
RMSCN600000000	Blue	PSU
ZMSCN800000000	Grey	PSU
RM SCT000000000	Black	PEI
RM SCT800000000	Grey	PEI

Wrench for the Front Nut

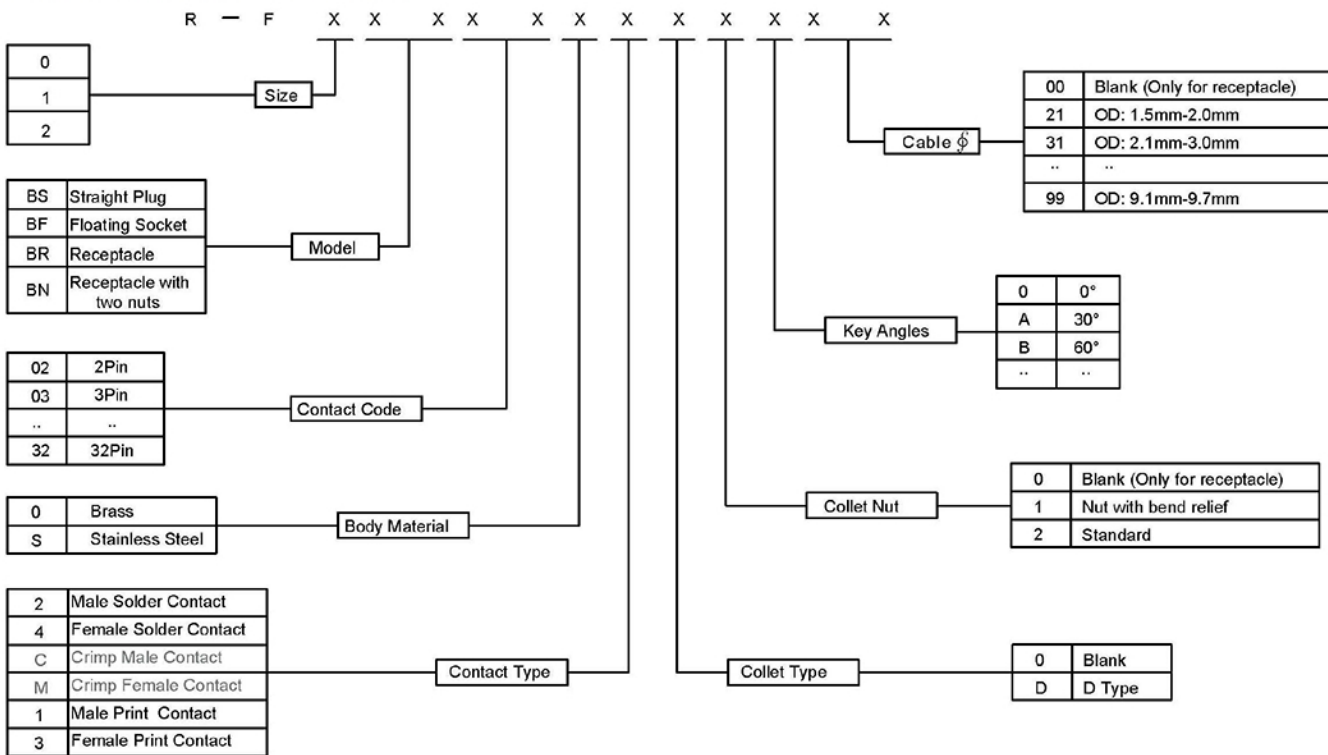


Part number	Color	Material
RM SD000000000	Grey	PBT

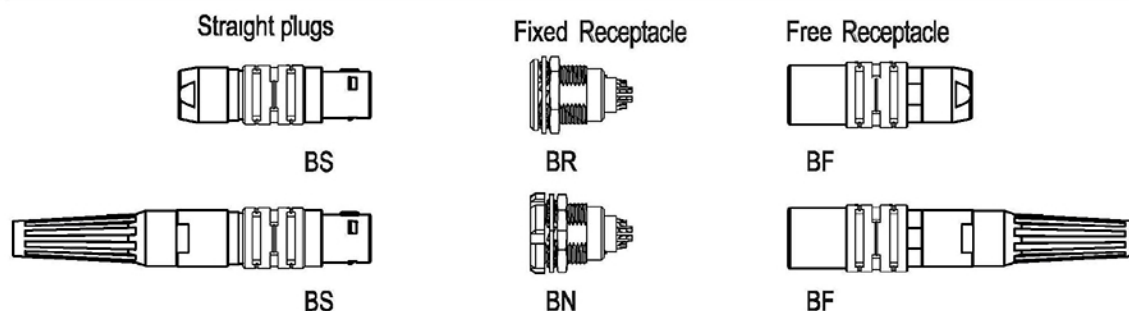


Metal SnapLatch connectors provide the following main features:

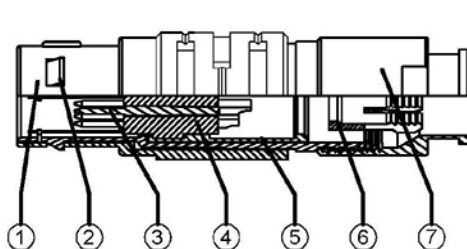
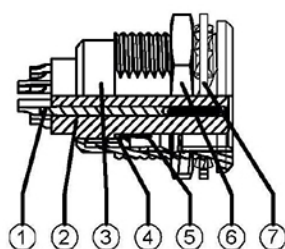
- ## Part Number System



Part number RF



- ① female contact
- ② insulator
- ③ outer shell
- ④ retaining ring
- ⑤ earthing crown
- ⑥ hexagonal nut
- ⑦ locking washer



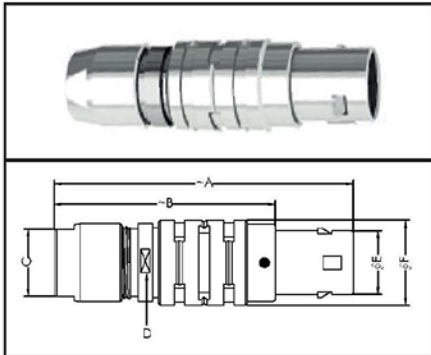
- ① outer shell
- ② latch sleeve
- ③ male contact
- ④ insulator
- ⑤ split insert carrier
- ⑥ collet
- ⑦ collet nut

Housing Models

Part number

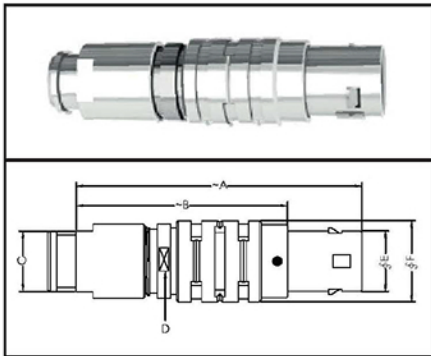
[illegible]

BS Straight plug, key(0) or keys(A,B...), cable collet



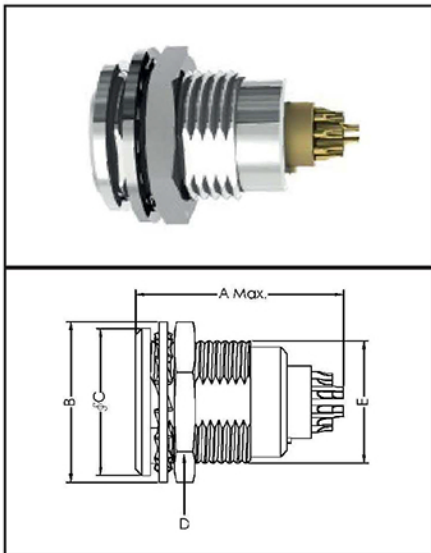
Size	Dimensions in mm					
	A	B	C	D	E	F
0	36.0	26.0	7.0	8.0	7.0	9.5
1	43.0	32.0	9.0	10.0	9.0	12.0
2	50.0	38.0	12.0	13.0	12.0	15.0

BS Straight plug, key(0) or keys(A,B..), cable collet and nut for bend relief



Size	Dimensions in mm					
	A	B	C	D	E	F
0	35.0	25.0	7.0	8.0	7.0	9.5
1	42.0	31.0	9.0	10.0	9.0	12.0
2	49.0	37.0	12.0	13.0	12.0	15.0

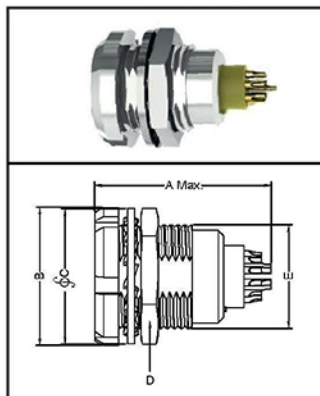
BR Fixed socket with earthing tab,nut fixing, key(0) or keys(A,B..)



Size	Dimensions in mm				
	A	B	C	D	E
0	20.7	12.4	10.0	7.0	M9x0.6P
1	23.0	15.8	14.0	9.0	M12x1.0P
2	26.7	19.2	18.0	12.0	M15x1.0P

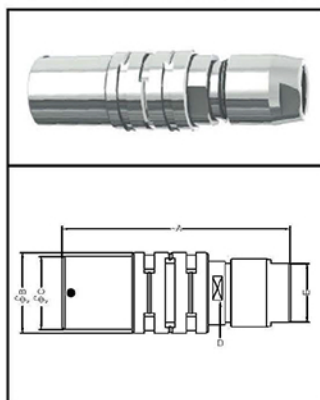


BN Fixed Receptacle with two nuts, key[0] or keys[A,B..]



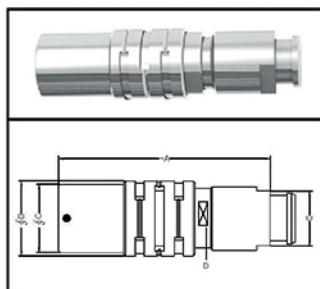
SIZE	Dimensions in mm				
	A	B	C	D	E
0	20.7	12.0	10.0	7.0	M9x0.6P
1	23.0	16.0	14.0	9.0	M12X1.0P
2	26.7	20.0	18.0	12.0	M15X1.0P

BF Free Receptacle, key[0] or keys[A,B..], Cable collet



SIZE	Dimensions in mm				
	A	B	C	D	E
0	35.5	9.5	8.0	8.0	7.0
1	40.5	12.5	11.6	10.0	9.0
2	47.0	16.5	15.0	13.0	12.0

BF Free Receptacle, key[0] or keys[A,B..], Cable collet and nut for bend relief



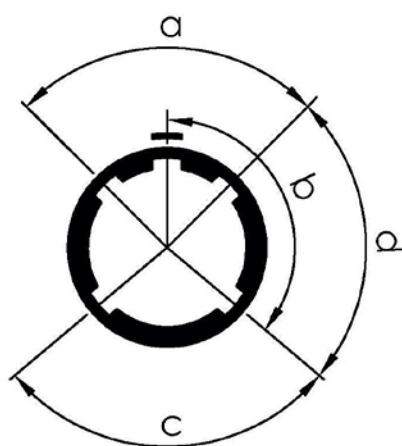
SIZE	Dimensions in mm				
	A	B	C	D	E
0	34.5	9.5	8.0	8.0	7.0
1	39.5	12.5	11.6	10.0	9.0
2	46.0	16.5	15.0	13.0	12.0

Alignment Key

Part number

RF ■■■■■■□■■■

Angles		a								b				c				d
		0	A	N	D	B	C	E	F	K	M	U	X	J	H	P	Z	Q
Part No.		0°	30°	40°	45°	60°	90°	37.5°	52.5°	120°	135°	145°	155°	45°	70°	80°	95°	110°
SIZE	0	●	●	●		●	●				●	●	●	●	●	●		●
	1	●	●	●		●	●				●	●	●	●	●	●		
	2	●	●	●	●	●		●	●	●		●			●		●	



Front view of a Receptacle

F0K/F1K/F2K series connectors have the same insulators as the F0B/F1B/F2B series and have the following main features:

- security of the Push-Pull latching system – watertight connection(IP67)
- multipole types 2 to 32 contacts – soldercup & DIP contacts
- keying system – multiple key options to avoid cross mating for connector alignment of similar connectors
- 360° screening for full EMC shielding – high packing density for space savings
- rugged housing for extreme working conditions.

R — F X X X X X X X X X X X

0
1
2

Size

KS	Straight Plug
KF	Floating Socket
KR	Receptacle Front Panel Mounting
KN	Receptacle Back Panel Mounting

Model

02	2Pin
03	3Pin
..	..
32	32Pin

Contact Code

0	Brass
S	Stainless Steel

Body Material

2	Male Solder Contact
4	Female Solder Contact
C	Crimp Male Contact
M	Crimp Female Contact
1	Male Print Contact
3	Female Print Contact

Contact Type

00	Blank (Only for receptacle)
10	OD: 1.0mm-1.2mm
15	OD: 1.3mm-1.5mm
..	..
85	OD: 8.1mm-8.5mm

Cable ϕ

0	0°
A	30°
B	60°
..	..

Key Angles

0	Blank (Only for receptacle)
1	Nut with bend relief
2	Standard

Collet Nut

0	Blank
C	C Type

Collet Type

Part number RF


KS

A technical drawing of a bolt and nut assembly. The bolt is shown in profile, with a hexagonal head on the left and a threaded shaft extending to the right. A nut is threaded onto the end of the bolt's shaft. The drawing is a black and white line illustration.

KR



KF



KS

Receptacle

KS

A technical drawing of a bolt and nut assembly. The bolt is shown in a side view, with a hexagonal head and a threaded shank. A nut is shown in a top-down view, with a hexagonal shape and a central threaded hole. The drawing is a black and white line drawing with no shading.

KN

KF

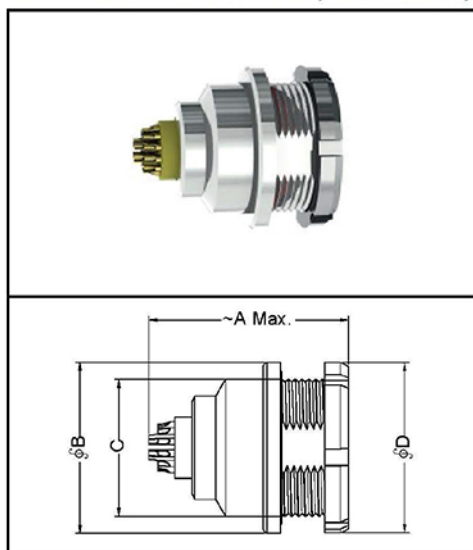
① outer shell
② insulator
③ retaining ring
④ earthing crown
⑤ o-ring
⑥ female contact
⑦ front nut

- ① outer shell
- ② insulator
- ③ retaining ring
- ④ earthing crown
- ⑤ o-ring
- ⑥ female contact
- ⑦ front nut

- ① inner shell
- ② latch sleeve
- ③ male contact
- ④ insulator
- ⑤ outer shell
- ⑥ retaining ring
- ⑦ split insert carrier
- ⑧ earthing cone
- ⑨ gasket
- ⑩ washer
- ⑪ collet
- ⑫ collet nut

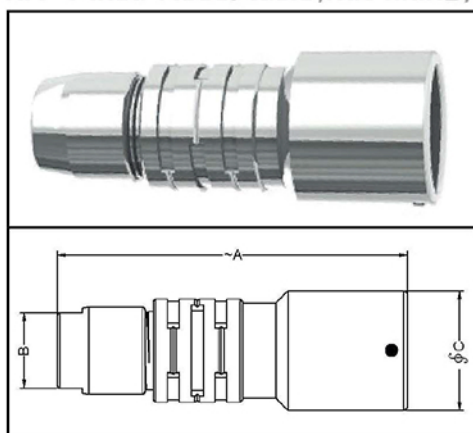
- ① inner shell
- ② latch sleeve
- ③ male contact
- ④ insulator
- ⑤ outer shell
- ⑥ retaining ring
- ⑦ split insert carrier
- ⑧ earthing cone
- ⑨ gasket
- ⑩ washer
- ⑪ collet
- ⑫ collet nut

KR Fixed Receptacle, nut fixing, key(0) or keys(A,B..)(back panel mounting)



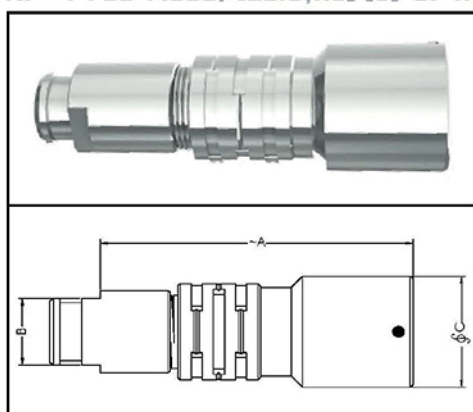
SIZE	Dimensions in mm			
	A	B	C	D
0	21.7	18.0	M14X1.0	18.0
1	30.0	20.0	M16X1.0	20.0
2	33.7	25.0	M20X1.0	25.0

KR Fixed Receptacle, nut fixing, key(0) or keys(A,B..)(back panel mounting)



SIZE	Dimensions in mm		
	A	B	C
0	34.0	8.0	13.0
1	45.0	9.0	15.0
2	54.0	12.0	19.0

KF Free Receptacle, key(0) or keys(A,B..), Cable collet and nut for bend relief



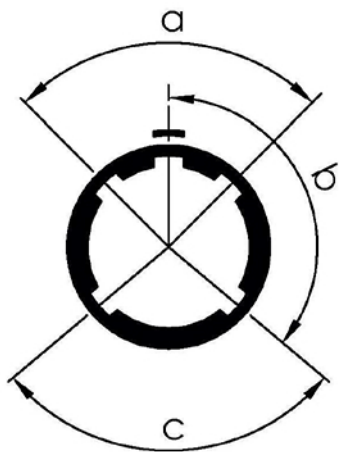
SIZE	Dimensions in mm		
	A	B	C
0	34.0	7.0	13.0
1	45.0	9.0	15.0
2	54.0	12.0	19.0

Alignment Key

Part number

RF ■■■■■■□■■■

Angles		a				b		c	
		0	A	D	B	K	U	H	C
Part No.		0°	30°	45°	60°	120°	145°	75°	90°
SIZE	0	●	●	●	●	●	●	●	●
	1	●	●	●	●	●	●	●	●
	2	●	●	●	●	●	●	●	●

















Front view of a Receptacle





















































Insert Configuration

Part number

RF ■■■■■■■■■■

Type	FOB FOK						
Male							
Female							
Contact Code	02	03	04	05	06	07	09
No.of Contacts	2	3	4	5	6	7	9
Contacts \varnothing (mm)	0.9	0.9	0.7	0.7	0.5	0.5	0.5
Test Voltage (kv rms)	1.30	1.20	0.85	1.00	0.85	0.80	0.60
Current (A)	10	8	7	6.5	2.5	2.5	2




Type	F1B F1K									
Male										
Female										
Contact Code	02	03	04	05	06	07	08	10	14	16
No.of Contacts	2	3	4	5	6	7	8	10	14	16
Contacts \varnothing (mm)	1.3	1.3	0.9	0.9	0.7	0.7	0.7	0.5	0.5	0.5
Test Voltage (kv rms)	1.50	1.30	1.35	1.25	1.05	0.95	0.95	0.90	0.80	0.80
Current (A)	15	12	10	9	7	7	7	2.5	2	1.5

Type	F2B F2K														
Male															
Female															
Contact Code	02	03	04	05	06	07	08	10	12	14	16	18	19	26	32
No.of Contacts	2	3	4	5	6	7	8	10	12	14	16	18	19	26	32
Contacts \varnothing (mm)	2.0	1.6	1.3	1.3	1.3	1.3	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.5	0.5
Test Voltage (kv rms)	2.10	2.40	1.85	1.75	1.35	1.75	1.50	1.45	1.25	1.15	0.95	0.85	0.95	0.95	0.80
Current (A)	30	17	15	14	12	11	10	8	7	6.5	6	5.5	2	2	1.5

D Type Collets For B Series




Part number

RF ■■■■■■□■■□□

Collet Type	Size	Collet Code						
			Collet		Cable \varnothing		Standard Nut	Nut with bend relief
			$\varnothing A$	$\varnothing B$	max.	min.		
D	0	21	2.1		2.0	1.5	●	●
		31	3.1		3.0	2.1	●	●
		42	4.2		4.0	3.1	●	●
		52	5.2	4.7	5.0	4.1	●	●
		56	5.6	4.7	5.5	5.1	●	
	1	42	4.2		4.0	3.1	●	●
		52	5.2		5.0	4.1	●	●
		62	6.2		6.0	5.1	●	●
		72	7.2	6.7	7.0	6.1	●	●
		76	7.6	6.7	7.5	7.1	●	
	2	42	4.2		4.0	3.1	●	●
		52	5.2		5.0	4.1	●	●
		62	6.2		6.0	5.1	●	●
		72	7.2		7.0	6.1	●	●
		82	8.2		8.0	7.1	●	●
		92	9.2	8.6	9.0	8.1	●	●
		99	9.9	8.6	9.7	9.1	●	



C Type Collets For K Series

Collet Type	Size	Collet Code						
			Collet		Cable Ø		Standard Nut	Nut with bend relief
			ØA	ØB	max.	min.		
C	0	10	1.6		1.2	1.0	●	●
		15	1.6		1.5	1.3	●	●
		20	2.1		2.0	1.6	●	●
		25	3.1		2.5	2.1	●	●
		30	3.1		3.0	2.6	●	
		35	4.2	4.2	3.5	3.1	●	●
		40	4.2	4.2	4.0	3.6	●	●
		45	5.2	5.2	4.5	4.1	●	●
		50	5.2	5.2	5.0	4.6	●	●
	1	15	1.6		1.5	1.3	●	●
		20	2.2		2.0	1.6	●	●
		25	3.2		2.5	2.1	●	●
		30	3.2		3.0	2.6	●	●
		40	4.2		4.0	3.6	●	●
		45	5.2		4.5	4.1	●	●
		50	5.2		5.0	4.6	●	●
		55	6.2	6.2	5.5	5.1	●	●
		60	6.2	6.2	5.5	5.1	●	●
		65	7.2	6.7	6.5	6.1	●	●
	2	15	2.2		1.5	1.3	●	●
		20	2.2		2.0	1.6	●	●
		25	3.2		2.5	2.1	●	●
		30	3.2		3.0	2.6	●	●
		40	4.2		4.0	3.6	●	●
		45	5.2		4.5	4.1	●	●
		50	5.2		5.0	4.6	●	●
		55	6.2		5.5	5.1	●	●
		60	6.2		5.5	5.1	●	●
		65	7.2		6.5	6.1	●	●
		70	7.2		7.0	6.6	●	●
		75	8.2	8.2	7.5	7.1	●	●
		80	8.2	8.2	8.0	7.6	●	●
		85	9.2	8.6	8.5	8.1	●	●

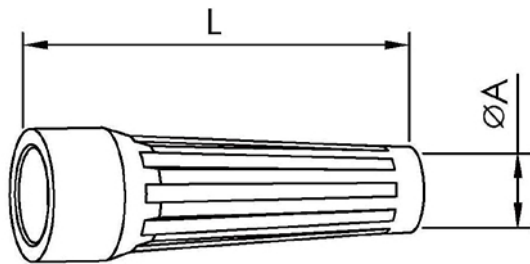
Outer Shell & Insulator

Part number

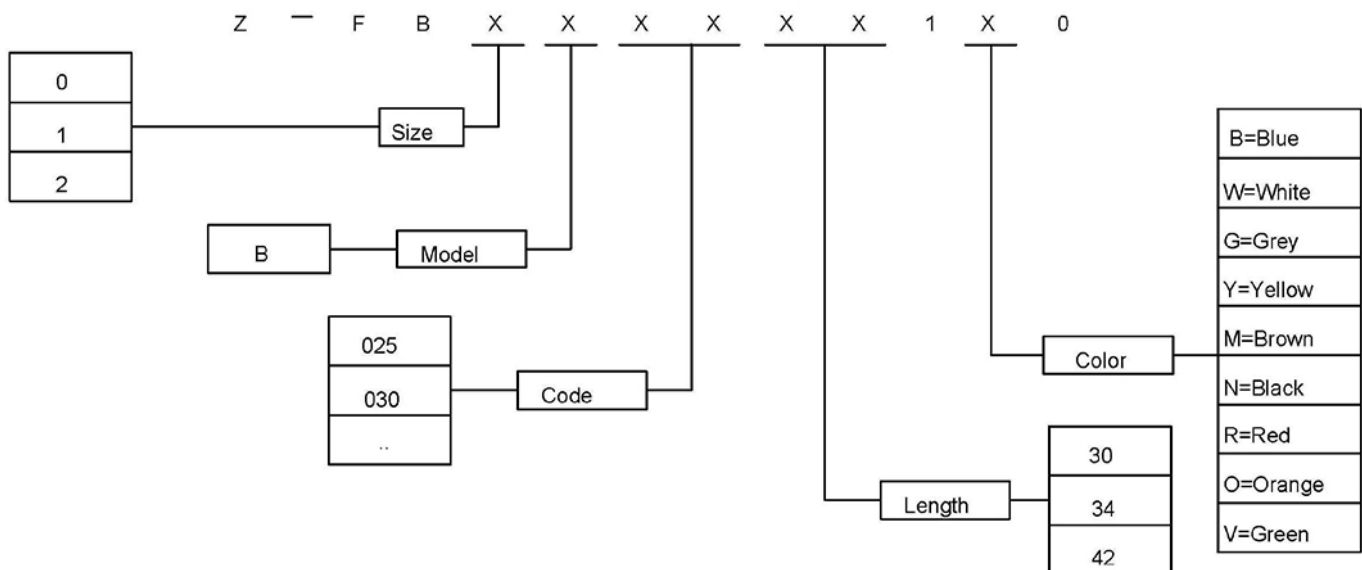
RF

Code	Outer shell and collet nut	Insulator	Pin	Other metallic components
0	Cu-alloy / matt chromate	PEEK	Cu-alloy / gold plated	Cu-alloy / nickel plated

Bend Relief



Material: silicone
Temperature range : -50°C up to +200°C
short term up to +230 °C, autoclavable

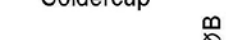







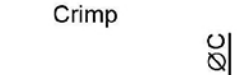
Part Number	Dimension		Cable Ø	
	L	ØB	max.	min.
Z-FB0B025301*0	30	2.5	2.9	2.5
Z-FB0B030301*0	30	3.0	3.4	3.0
Z-FB0B035301*0	30	3.5	3.9	3.5
Z-FB0B040301*0	30	4.0	4.4	4.0
Z-FB0B045301*0	30	4.5	5.2	4.5
Z-FB1B025341*0	34	2.5	2.9	2.5
Z-FB1B030341*0	34	3.0	3.0	3.4
Z-FB1B040341*0	34	4.0	4.4	4.0
Z-FB1B045341*0	34	4.5	5.0	4.5
Z-FB1B051341*0	34	5.1	5.1	5.6
Z-FB1B057341*0	34	5.7	6.2	5.7
Z-FB1B062341*0	34	6.3	6.3	7.0
Z-FB2B040421*0	42	4.0	4.4	4.0
Z-FB2B045421*0	42	4.5	5.0	4.5
Z-FB2B051421*0	42	5.1	5.6	5.1
Z-FB2B057421*0	42	5.7	6.2	5.7
Z-FB2B063421*0	42	6.3	7.0	6.3
Z-FB2B071421*0	42	7.1	7.9	7.1
Z-FB2B080421*0	42	8.0	9.0	8.0

Contact Type

Part number

RF

Soldercup		Contact ØA (mm)	Solder bucket ØB (mm)	Max. AWG / mm ²
		0.5	0.45	28/0.09
		0.7	0.80	22/0.34
		0.9	0.80	22/0.34
		1.3	1.00	20/0.50
		1.6	1.40	16/1.00
		2.0	1.80	14/1.50

Crimp		Contact ØA (mm)	Contact ØC (mm)	Max. AWG / mm ²
		0.5	0.45	28/0.09
		0.7	0.80	22/0.34
		0.9	1.10	20/0.50
		1.3	1.40	18/1.00
		1.6	1.90	14/1.50
		2.0	2.40	12/2.50

Mating cycles: > 5000

Material: Copper Alloy

Surface finish: At least 1,25 µm Ni; at least 0,50 µm Au



PCB Drilling pattern

Fixed socket with straight print contact

02PIN



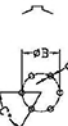
Series	Dimensions	
	A	B
F0B-F0K	0.8	2.2
F1B-F1K	0.8	2.8
F2B-F2K	0.8	4.4

04PIN



Series	Dimensions		
	A	B	C
F0B-F0K	0.6	2.5	45°
F1B-F1K	0.8	3.1	45°
F2B-F2K	0.8	5.0	45°

06PIN



Series	Dimensions		
	A	B	C
F0B-F0K	0.6	3.0	60°
F1B-F1K	0.8	3.7	60°

07PIN



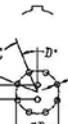
Series	Dimensions		
	A	B	C
F0B-F0K	0.6	3.0	60°
F1B-F1K	0.8	3.7	60°
F2B-F2K	0.8	5.8	60°

08PIN



Series	Dimensions		
	A	B	C
F2B-F2K	0.8	6.4	45°

10PIN



Series	Dimensions				
	A	B	C	D	H
F1B-F1K	0.8	3.95	45°	22°30'	1.40
F2B-F2K	0.8	6.30	45°	22°30'	2.15

14PIN



Series	Dimensions			
	A	B	H	I
F1B-F0K	0.6	4.4	1.90	1.80
F2B-F2K	0.8	6.5	2.65	2.65

16PIN



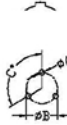
Series	Dimensions				
	A	B	C	D	H
F2B-F2K	0.8	6.6	32°44'	16°22'	3.1

19PIN



Series	Dimensions					
	A	B	C	D	E	H
F2B-F2K	0.8	6.7	60°	30°	15°	3.5

03PIN



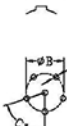
Series	Dimensions		
	A	B	C
F0B-F0K	0.8	2.3	120°
F1B-F1K	0.8	3.0	120°
F2B-F2K	0.8	4.6	120°

05PIN



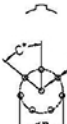
Series	Dimensions		
	A	B	C
F0B-F0K	0.6	2.8	72°
F1B-F1K	0.8	3.4	72°
F2B-F2K	0.8	5.2	72°

06PIN



Series	Dimensions		
	A	B	C
F2B-F2K	0.8	5.6	72°

08PIN



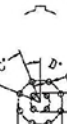
Series	Dimensions		
	A	B	C
F1B-F1K	0.8	3.8	51°26'

09PIN



Series	Dimensions		
	A	B	C
F0B-F0K	0.6	3.2	45°

12PIN



Series	Dimensions				
	A	B	C	D	H
F2B-F2K	0.8	6.5	45°	22°30'	2.8

16PIN



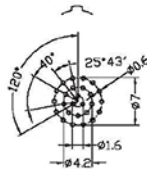
Series	Dimensions			
	A	B	C	H
F1B-F1K	0.6	4.4	32°44'	2.0

18PIN

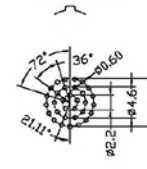


Series	Dimensions					
	A	B	C	D	E	H
F2B-F2K	0.8	6.7	60°	30°	15°	3.5

F2B-F2K 26PIN

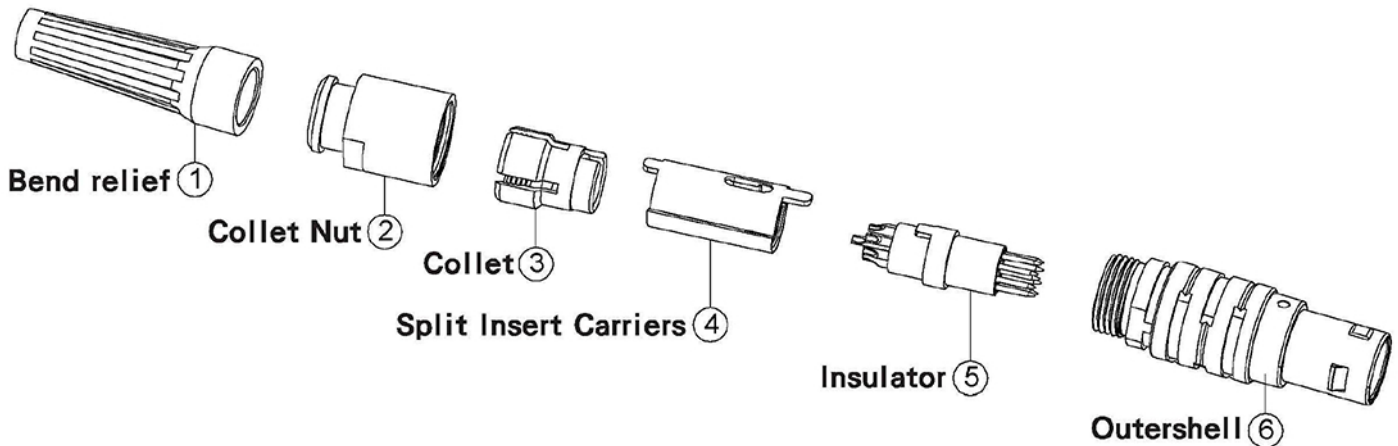


F2B-F2K 32PIN



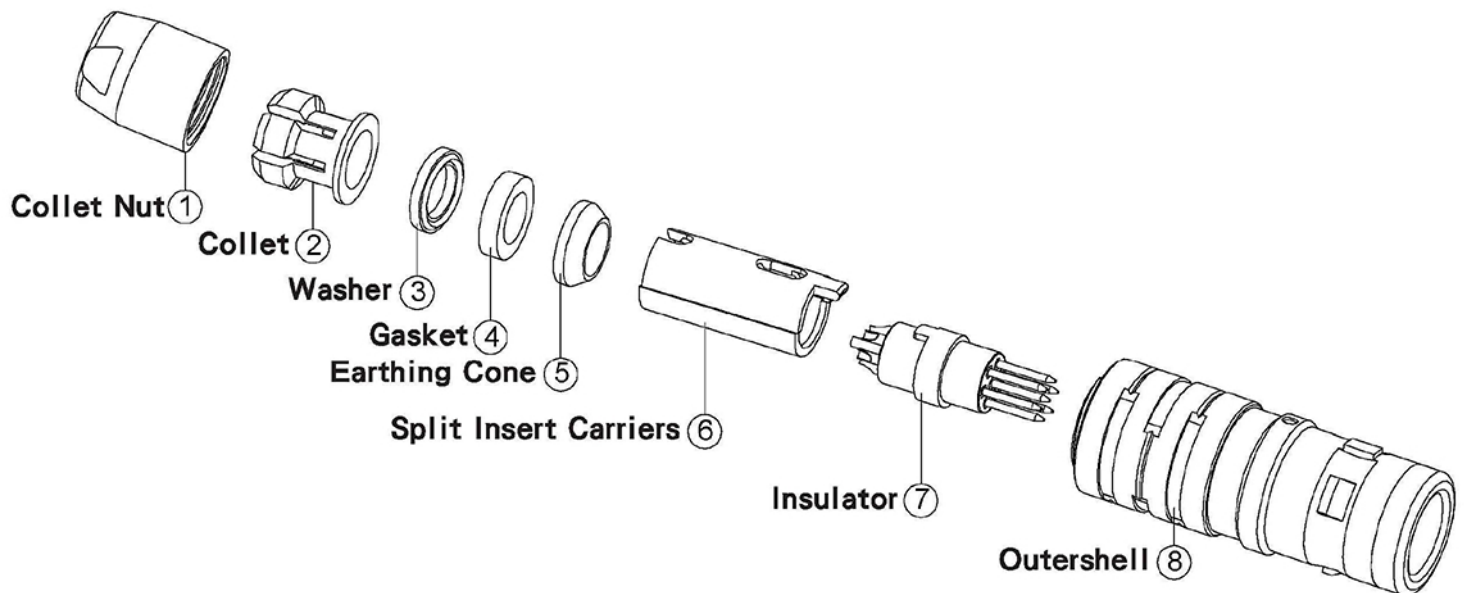
Assembly

BS Connector Assembly



1. Put cable wire through ①Bend Relief, ②Collet Nut, and ③Collet and solder the parts accordingly to the ⑤Insulator.
2. Place the 2pcs of ④Split Insert Carriers onto the ⑤Insulator. Note the opening of the ④Split Insert Carriers need to fit in the protrusion of the ⑤Insulator.
3. Push the ⑤Insulator, ④Split Insert Carriers, and the ③Collet into the ⑥Outer Shell. Note the protrusion of the ④Split Insert Carriers fits the channel inside the ⑥Outer Shell.
4. Lock the ②Collet Nut with the ⑥Outer Shell.

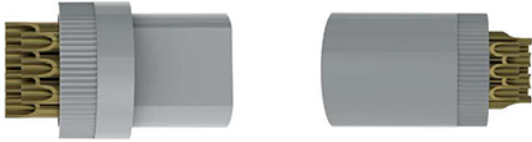
KS Connector Assembly



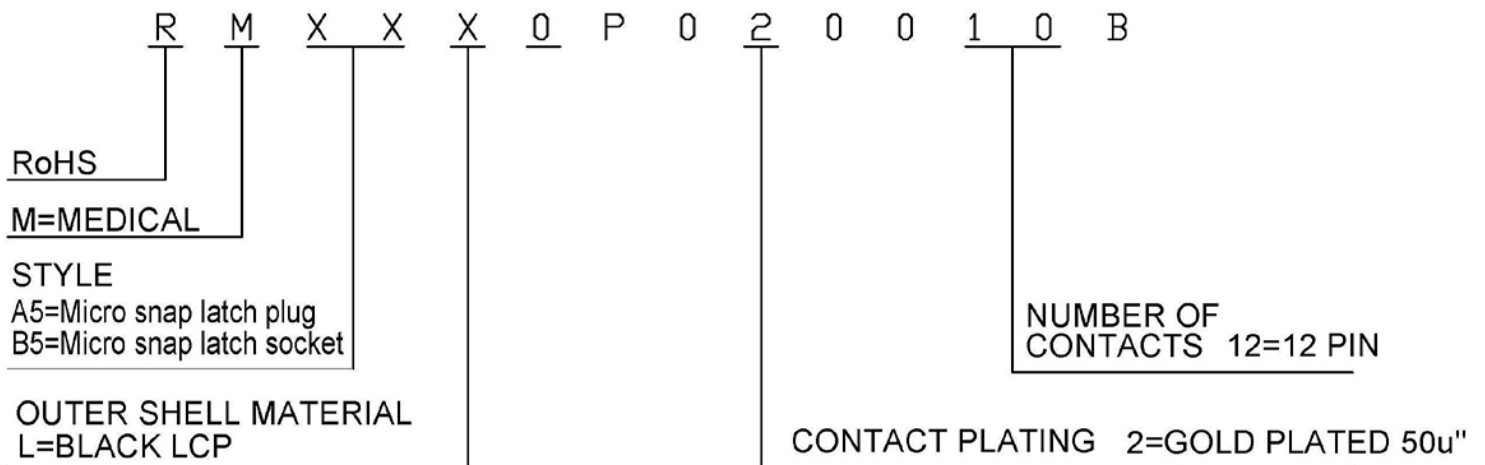
1. Put cable wire through ①Collet Nut, ②Collet, and ③Washer ④Gasket, ⑤Earthing Cone, and solder the parts accordingly to the ⑦Insulator.
2. Place the 2pcs of ⑥Split Insert Carriers onto the soldered ⑦Insulator. Note the opening of the ⑥Split Insert Carriers needs to fit in the protrusion of the ⑦Insulator.
3. Assemble the ②Collet with the cable. Note the bottom of the ②Collet contacts with the ③Washer.
4. Push the ⑦Insulator, ⑥Split Insert Carriers, ⑤Earthing Cone, ④Gasket, ③Washer and the ②Collet into the ⑧Outer Shell. Note the protrusion of the ⑥ Split Insert Carriers fits the channel inside the ⑧ Outer Shell.
5. Lock the ①Collet Nut with the ⑥Outer Shell.

Micro SnapLatch

Micro snap latch connectors provide the following main features:



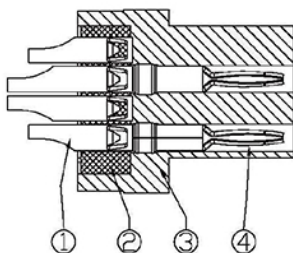
Part Number System



Housing Models

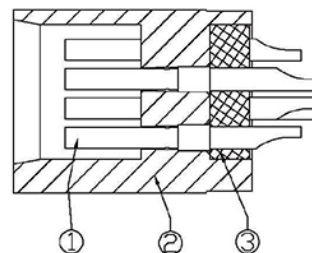
Plug

- ① solder Pin
- ② epoxy
- ③ insulator
- ④ mating pin



Socket

- ① female pin
- ② insulator
- ③ epoxy



Insulator

Thermoplastic Polyester per MIL-M-24519, Type LCP 30%GF, Natural

Characteristics

Current Rating: 3 amps max

Dielectric Withstanding Voltage: 600 VAC RMS

Insulation Resistance: 5000 Meg ohms min

Contact Resistance: 26 milliohms max

Durability: 500 cycles

