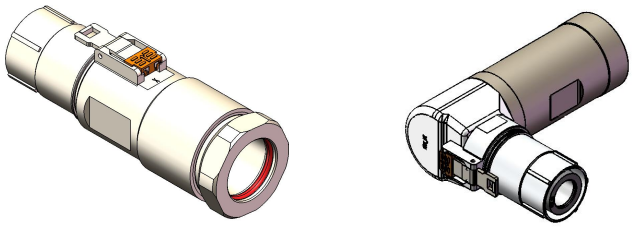
KRX500 series assembled plugs

Assembly specification



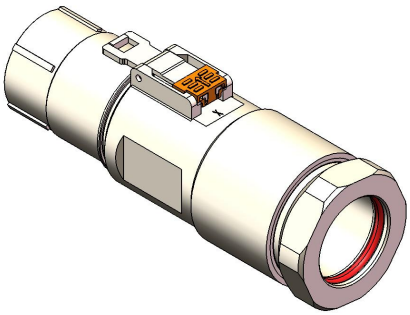
Guizhou Keruixi Electronic Technology Co., Ltd.

June 2023

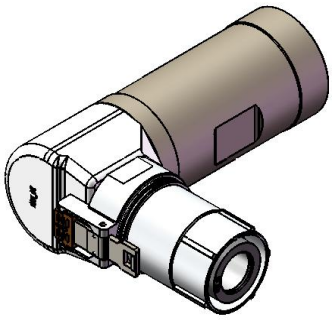
KRX500 series assembled plugs

Assembly specification

1. Remove the plug, straight plug, elbow plug structure as shown in figure 1



KRX18 Straight plug



KRX28 Elbow Plug

Figure 1

2. Plug disassembly

2.1 Straight plug disassembly

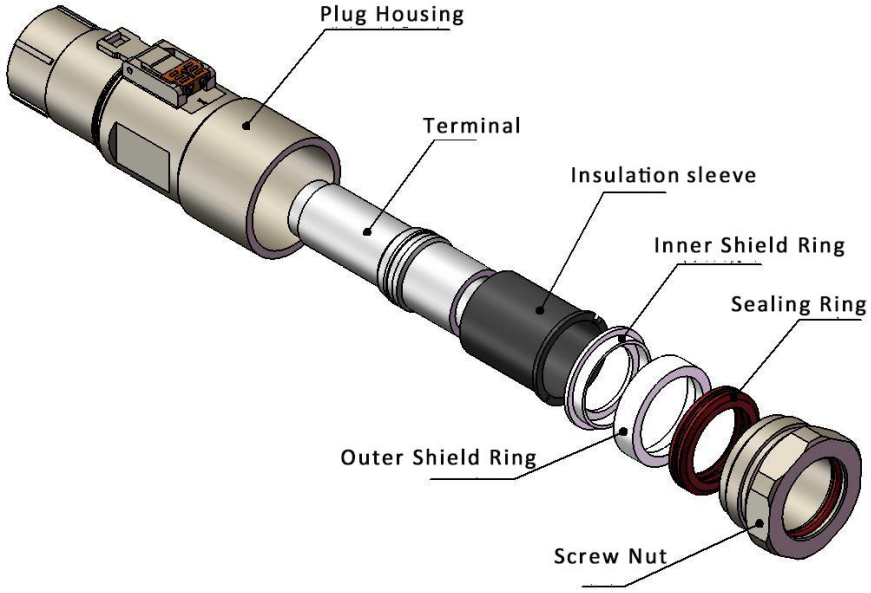


Fig. 2 Straight plug disassembly

2.2 Elbow disassembly

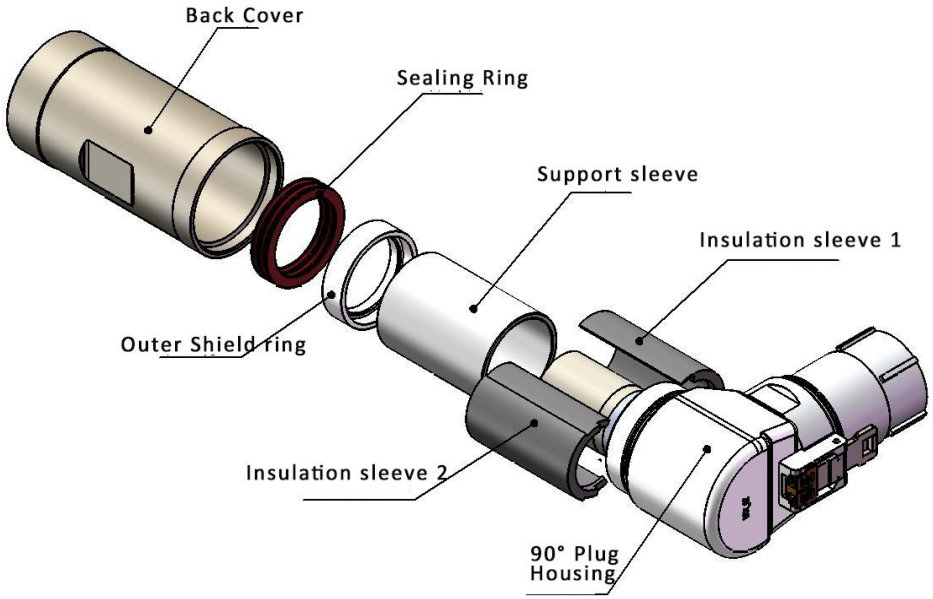


Fig. 3 Elbow disassembly

3. Cable stripping size

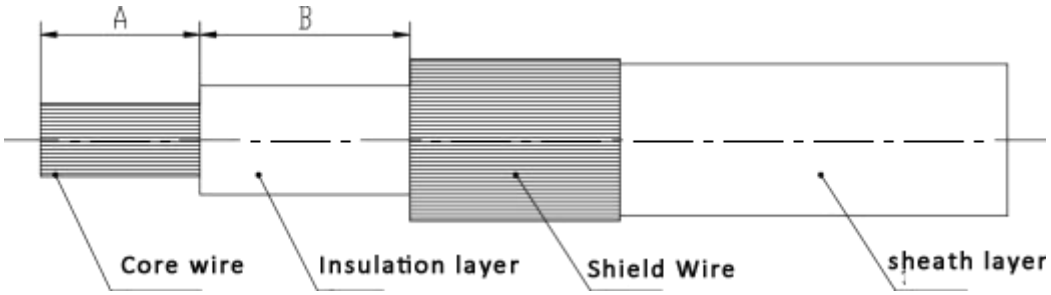


Fig. 4

Product	Cable stripping size		Cable specification	Outer diameter for cables	Tensile strength
	A	B			
KRX18 Straight plug	$20^{+0.5}$	$9.5^{+0.5}$	70mm^2	19.5±0.6mm	2200N
			95mm^2	23.1±0.8mm	2800N
			120mm^2	24.9±0.8mm	3500N
KRX28 Elbow Plug	$20^{+0.5}$	$9.5^{+0.5}$	70mm^2	19.5±0.6mm	2200N
			95mm^2	23.1±0.8mm	2800N
			120mm^2	24.9±0.8mm	3500N

4.1. KRX18 Straight plug Assembly

4.1.1. Remove the connector and place the parts in the product on the cable in turn

according to Fig.5.

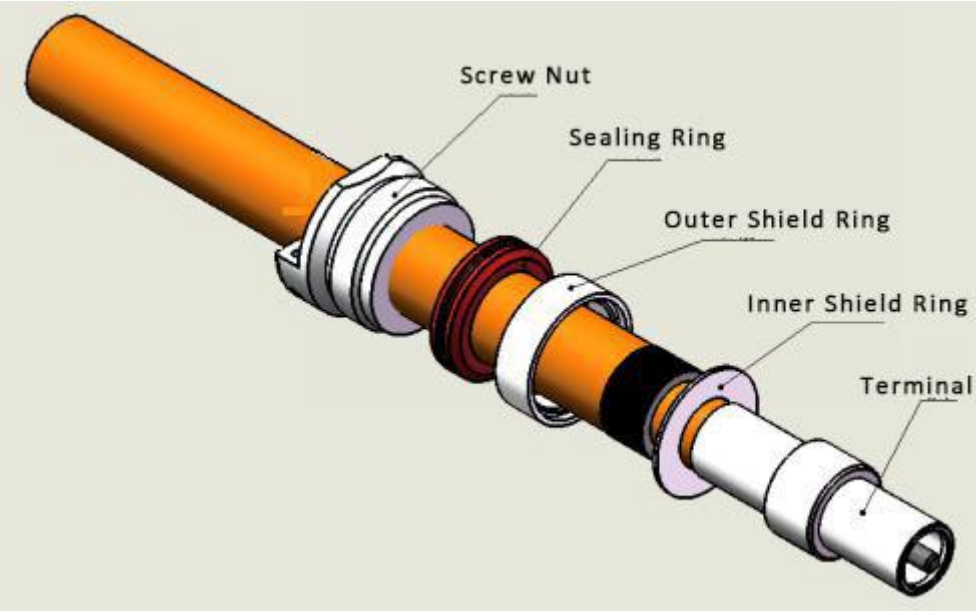


Fig. 5

4.1.2. According to the size requirements of Figure 6, the crimping terminal is pressed, the crimping section is a regular hexagon, and the size after crimping meets the requirements of Table 1.

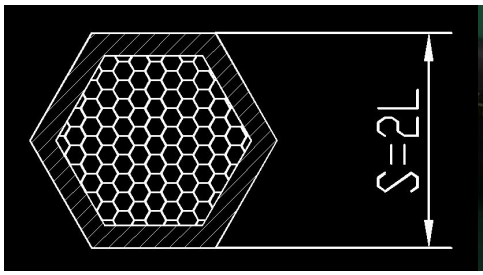


Fig. 6 Fig. 7

Conductor cross section (mm2)	Hexagonal size after crimping (size 2L, unit mm in Fig.5)	Remark
95.00	14.07±0.1	KRX500 series 95 square
120.00	15.54±0.1	KRX500 series 120 square
135.00	17.40±0.1	KRX500 series 135 square
150.00	17.17±0.1	KRX500 series 150 square

After crimping, a double-wall heat shrinkable tube (25 ± 2 mm in length) is sleeved

and heat shrinked at the position shown in figure8.

Fig. 8

4.1.3. The insulating sleeve card is mounted on the terminal, as shown in Figure 9.

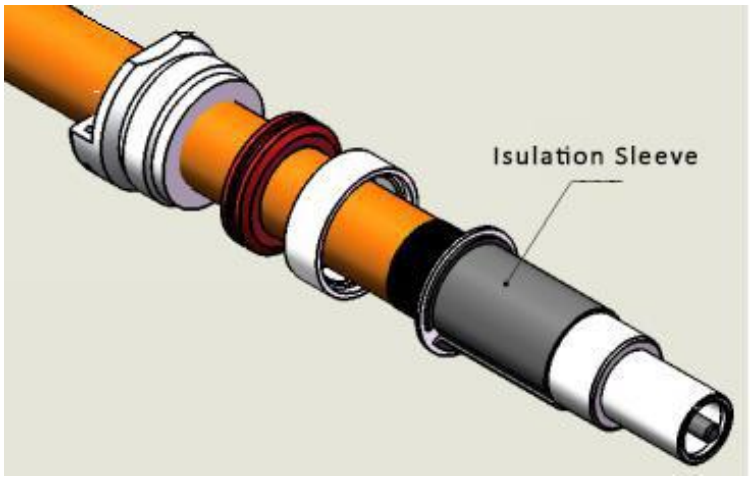


Fig. 9

4.1.4. The shielding line should be protruded 2-3mm, and then the excess shielding line should be subtracted, as shown in Figure 10.

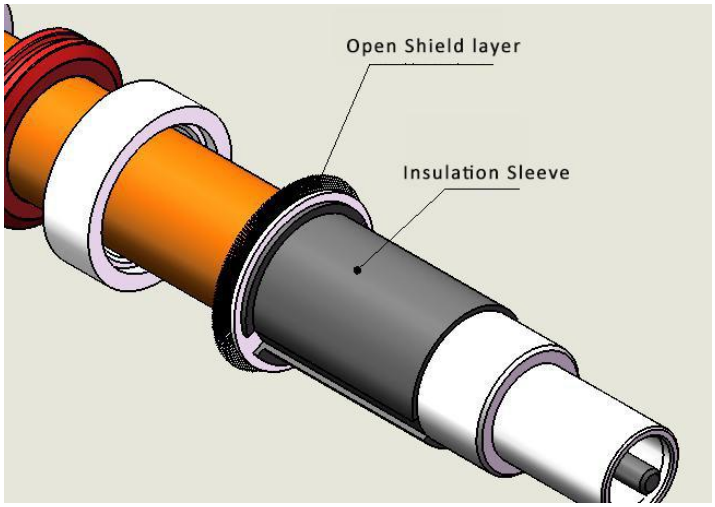


Fig. 10

4.1.5. The outer shielding ring is combined with the inner shielding ring and fully contacted with the shielding layer, as shown in Fig.11.

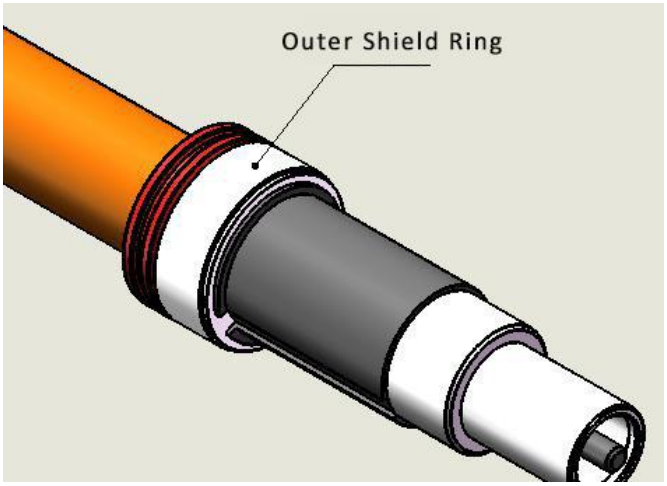


Fig. 11

4.1.6. The assembled cable is assembled with the plug shell, as shown in Fig.12.

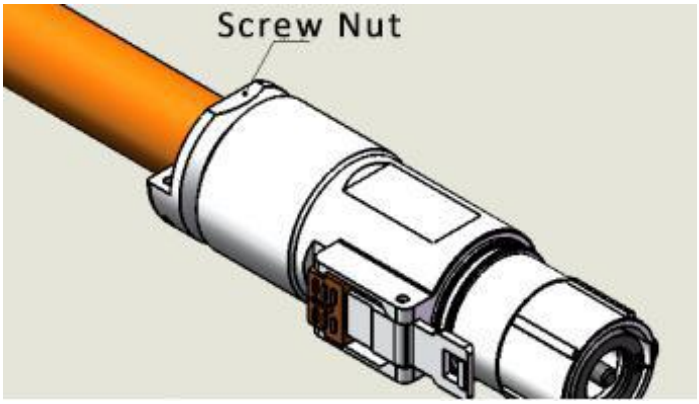


Fig. 12

4.2. KRX28 Elbow Plug

4.2.1. Remove the connector, place the parts in the product on the cable in turn according to Fig.13, and then place the double-wall heat-shrinkable tube (30 ± 2mm long).

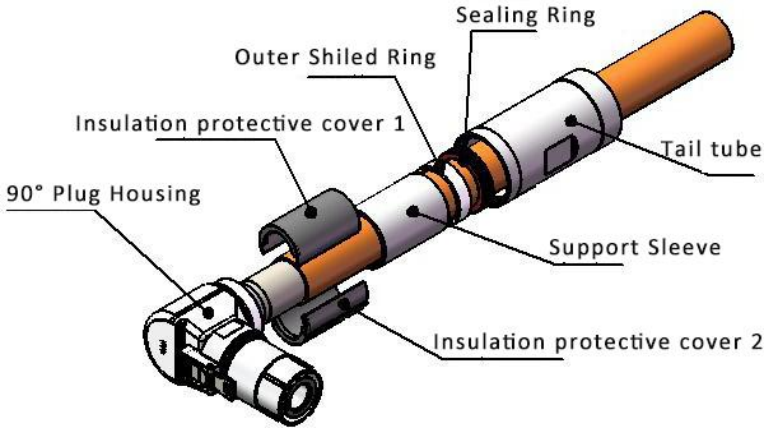


Fig. 13

4.2.2. Press the terminal according to the requirements of 4.1.2, and then heat shrink the double wall heat shrinkable tube.

4.2.3. Then the insulation protective cover 1 and insulation protective cover 2 are installed on the terminal, as shown in Fig.14.

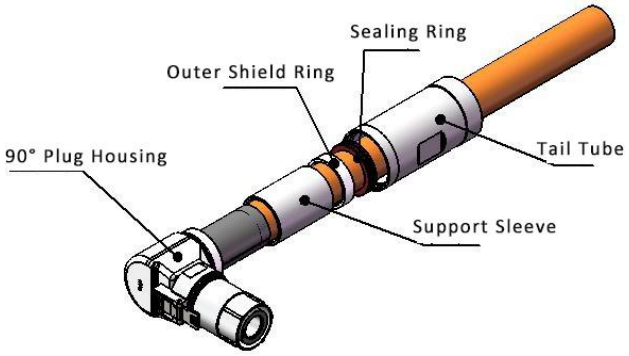


Fig. 14

4.2.3. The supporting sleeve is assembled in place, and then the shielding layer is wrapped on the supporting sleeve, and then the shielding ring and sealing ring are assembled in place, as shown in Figure 15

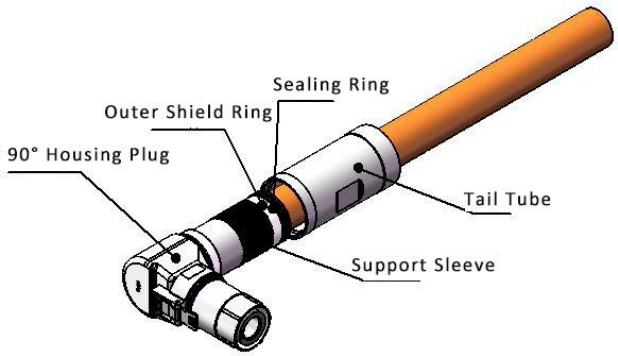


Fig. 15

4.2.4. The tail pipe is screwed to the thread at the end of the elbow and screwed in place, as shown in Figure 16

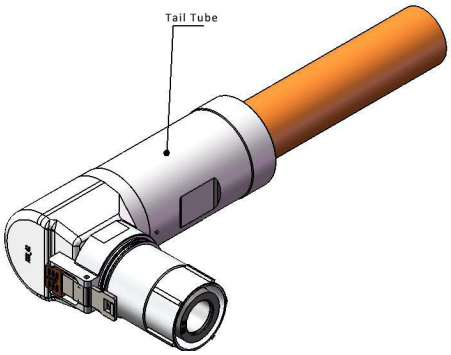


Fig. 16

4.2.5. Tighten the fastening screw at the inner corner of the elbow (blue part in Fig.17) to prevent the elbow from rotating and damage the button support on the shell.

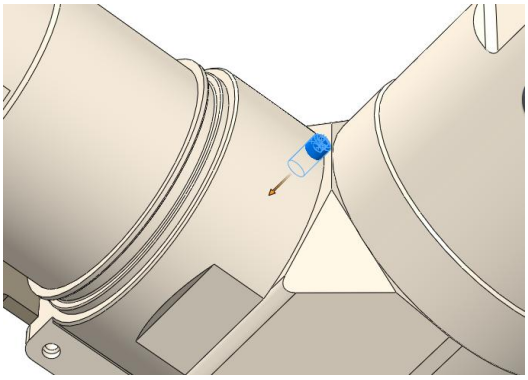


Fig. 17

5. Product testing

Insulation resistance : 5000MΩ

Withstand voltage : 5000V DC

Thank you to read this documents. During use progress, any question please feel free to contact us as below:

Company: Guizhou KeRuiXi Electronic Technology Co., Ltd.
Address: Building 6, High-end Equipment Manufacturing Industrial Park, Gui'an New District,
Guiyang City, Guizhou Province
China
Contact person: Amber Tan (Sales manager)
Email: sales@cnconnectors.com
technical@cnconnectors.com
Tel: 86-531-88987670
Phone: 86-13173007052