

KRX05 series 1000A connector

Operation Instructions



Guizhou KeRuiXi Electronic Technology Co., Ltd.

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1. Plug structure

The overall structure of the plug is shown in Figure 1. It supports cable size as 150mm², 185mm², 240mm².



Figure1 KRX05-1X20TK-90-*** Plug

2. Cable requirement

The cable support unshielded and shielded. In order to ensure the tightness of the product after assembly, the outer diameter of the cable shall meet the following requirements:

1. 150mm²—Conductor outer diameter: 16.6±0.3mm; cable outer diameter: 24.4±0.6mm
2. 185mm²—Conductor outer diameter: 18.5±0.3mm; cable outer diameter: 26.8±0.6mm
3. 240mm²—Conductor outer diameter: 20.7±0.3mm; cable outer diameter: 29.4±0.6mm

3. Assembly

3.1 Plug composition

Disassemble the plug tail accessories into three parts: the elbow assembly, the insulation sleeve of the crimping barrel and the tail tube assembly. Refer to Figure 2 for details.

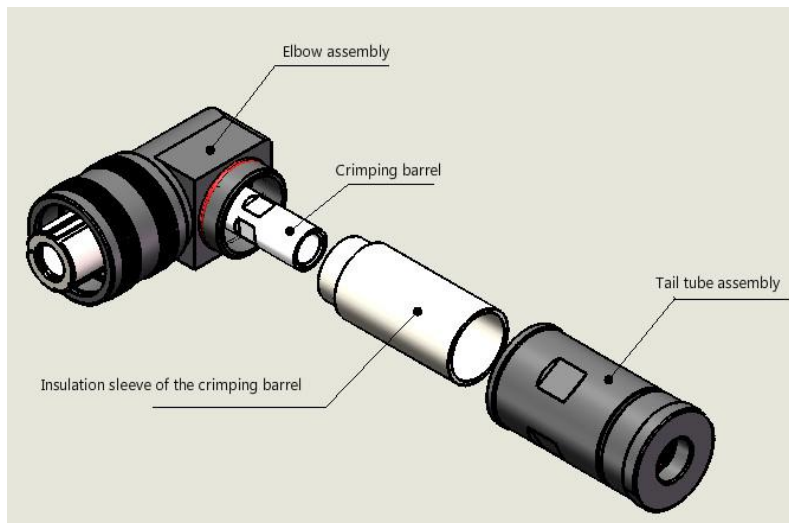


Figure 2

3.2 Install the cable

3. Put the tail tube assembly and the insulation sleeve of the crimping barrel on the cut cable in turn. Notice: The crimping end of the cable is located in the upper left corner of the figure below 3.

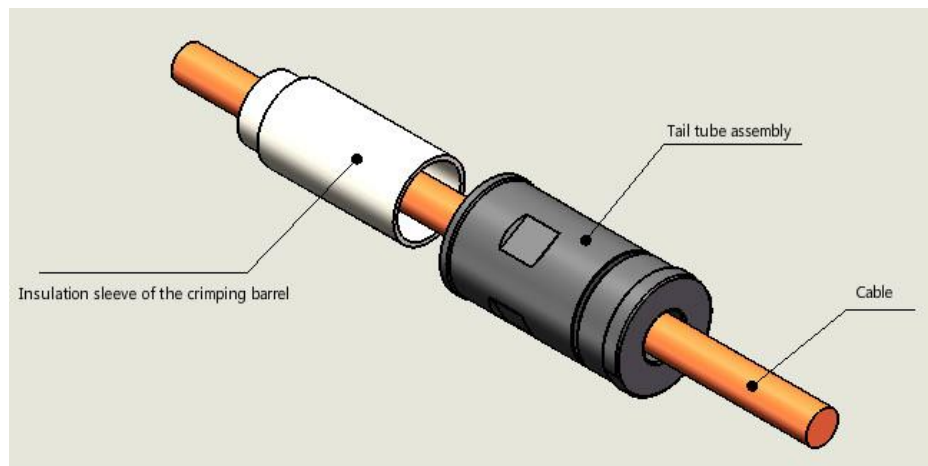


Figure 3

3.3 Wire Stripping

The wire is stripped according to the dimensions shown in Figure 4. The stripped insulation layer can be temporarily left on the wire core to prevent the core wire from being scattered and affecting the threading.



Figure 4

3.4 Terminal crimp

Use a suitable crimping tool to crimp the crimping barrels in the core wire and elbow combination. The crimping strength should meet the requirements of Table 1.

It is recommended to use a hexagonal crimping die for crimping.

Table 1 Requirement

Cable Size(mm ²)	Tensile strength
150mm ²	6000N
185mm ²	7400N
240mm ²	9600N

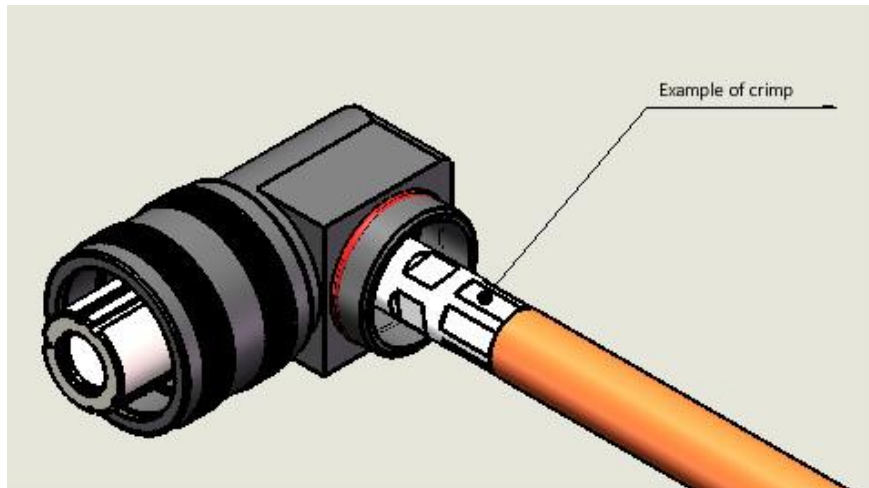


Figure 5

3.5 Assemble the insulation sleeve of the crimping barrel

Put the insulation sleeve of the crimping barrel into the elbow assembly, as shown in Figure 6.

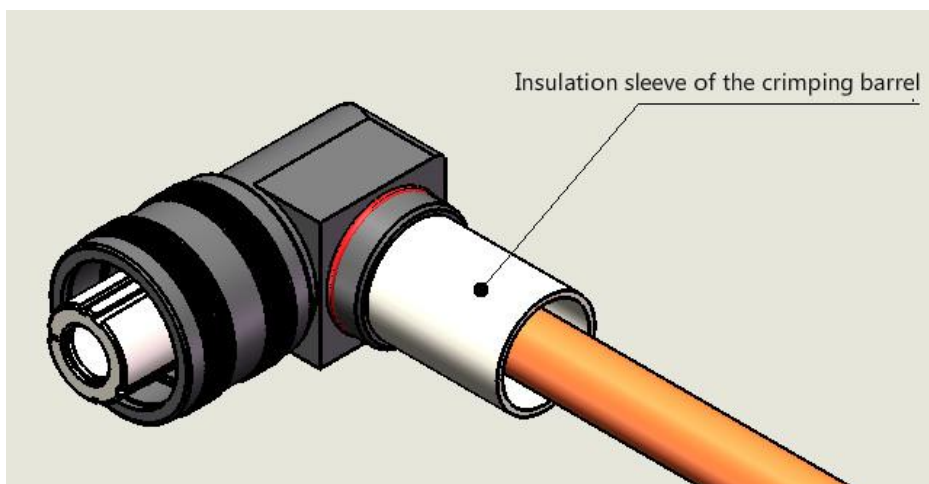


Figure 6

3.6 Assemble the tail tube assembly

Screw the tail tube assembly to the elbow assembly and tighten, as shown in Figure 7.

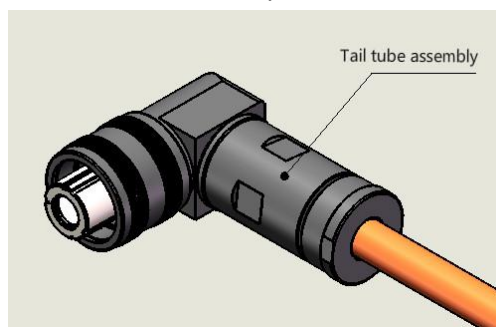


Figure 7

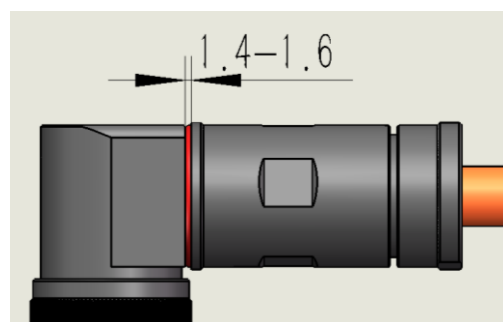


Figure 8

Notice: After the tail tube assembly is assembled in place, the sealing ring will be partially exposed, and the gap at the sealing ring is about 1.4-1.6mm. This is a normal phenomenon and does not affect the tightness of the product.

3.7 Tighten the screw sleeve

Screw and tighten the screw sleeve in the tail tube assembly, see Figure 9.

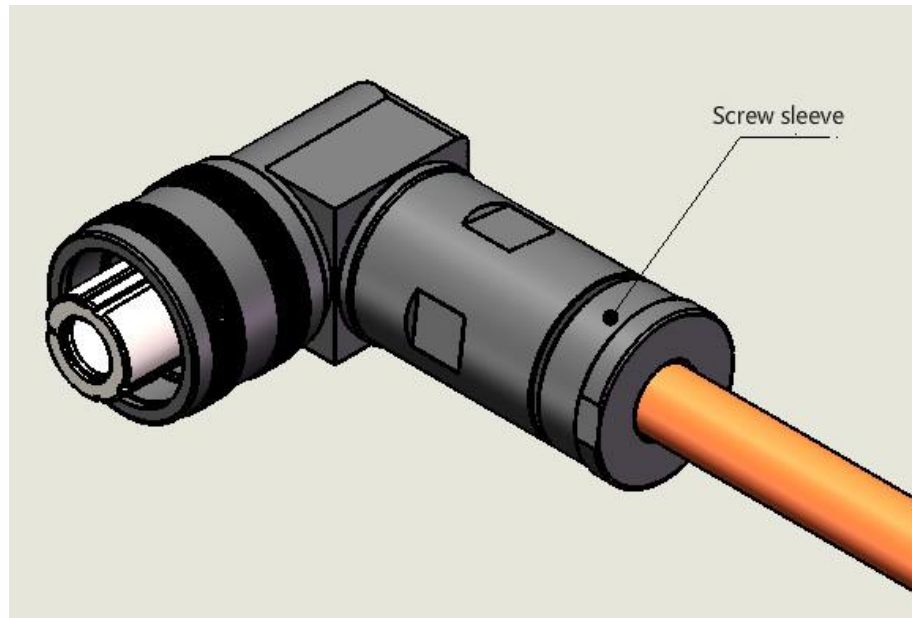


Figure 9

4. Test

Test connector should meet below requirement:

Withstand Voltage: DC 8000V

Insulation Resistance: 5000M Ω

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

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