

The background of the slide is a night-time aerial view of a city, likely Seattle, with a network of glowing blue and white lines overlaid on the buildings and streets, suggesting a smart city or industrial network. The Siemens logo is positioned in the top right corner.

**SIEMENS**

*Ingenuity for life*

# **SINAMICS G120XA 控制单元接线指导**

SINAMICS G120XA CU wiring guide

2019.7.22 He Wei SNC CSA TCC

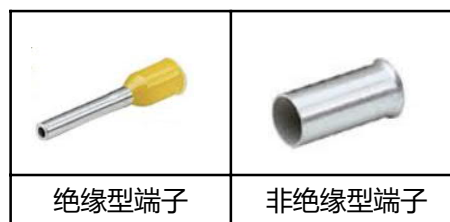
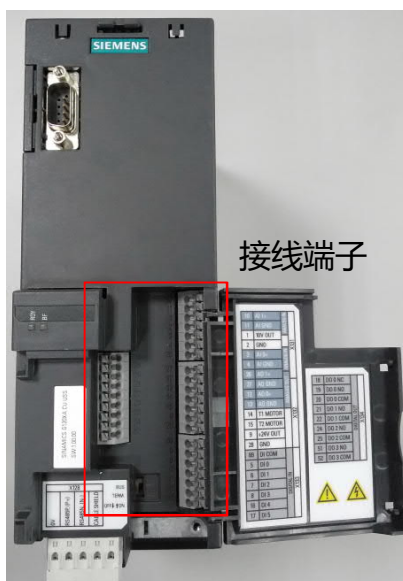
# SINAMICS G120XA 控制单元接线总览

G120XA 控制单元提供固定式连接器，最大支持截面积1.5mm<sup>2</sup>(AWG 16)的导线。

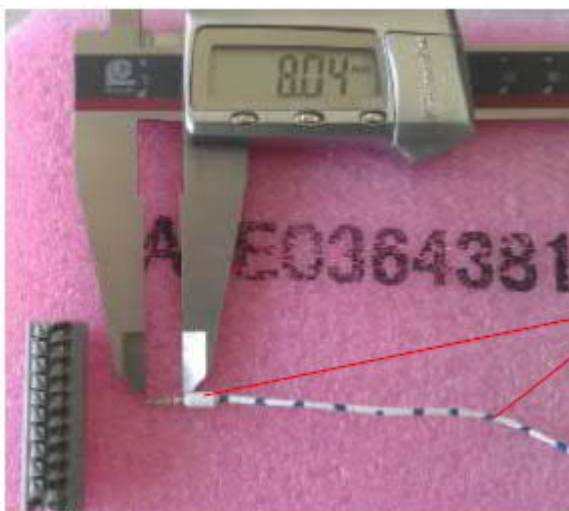
可采用三种方式进行连接

- 绞合线+绝缘型端子
- 绞合线+非绝缘型端子
- 直接使用实心线

不允许两根线插入一个冷压端子

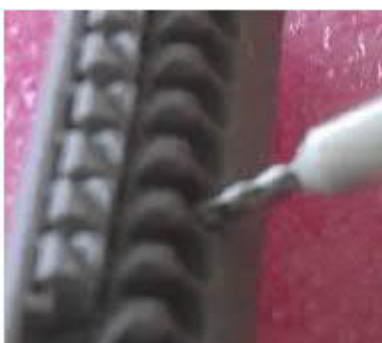
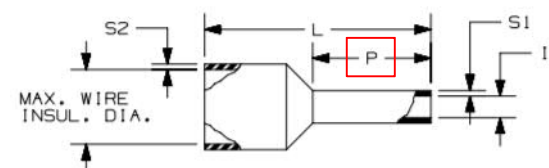


## 绞合线+绝缘型端子



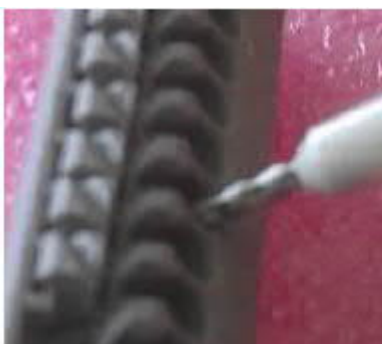
### 接线要求

1. 导体截面积**0.25(min)~0.5(max)**mm<sup>2</sup>
2. 需要选用合适的冷压端子，前端P长度**8~9mm**，外径OD不大于**1.5mm**



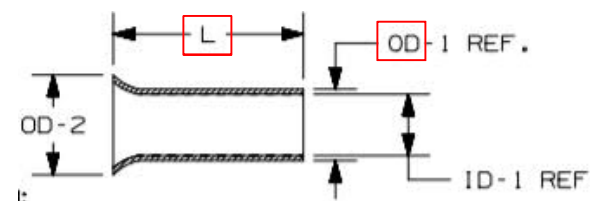
3. 使用合适的端子压接工具  
(建议所选工具符合DIN 46228第1部分要求的不带绝缘颈环的套管以及符合DIN 46228第4部分要求的带绝缘颈环的套管，0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>，水平进线，梯形压接)

# 绞合线+非绝缘型端子



## 接线要求

1. 导体截面积**0.25(min)~1(max)**mm<sup>2</sup>
2. 需要选用合适的冷压端子，前端L长度**8~9mm**，外径OD不大于**1.5mm**



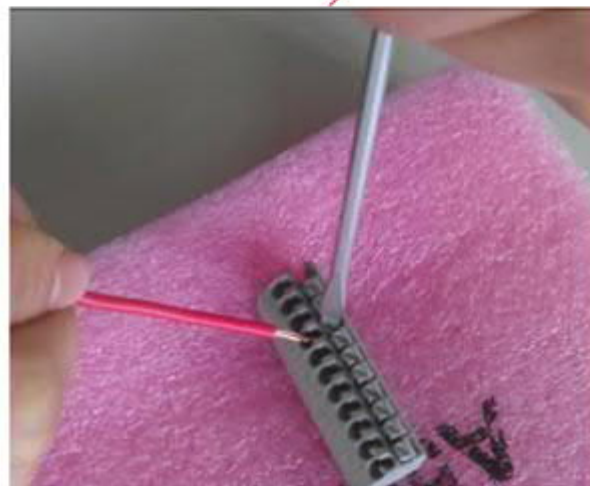
3. 使用合适的端子压接工具  
(建议所选工具符合DIN 46228第1部分要求的不带绝缘颈环的套管以及符合DIN 46228第4部分要求的带绝缘颈环的套管，0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>，水平进线，梯形压接)

## 直接使用实心线



### 接线要求

1. 导体截面积在**0.2(min)~1.5(max)**mm<sup>2</sup>
2. 导线的剥线长度推荐为**8~9**mm
3. 接线步骤是：先用一字型螺丝刀压下塑料压杆，再插导线



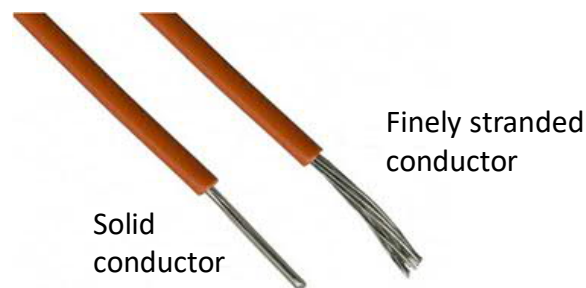
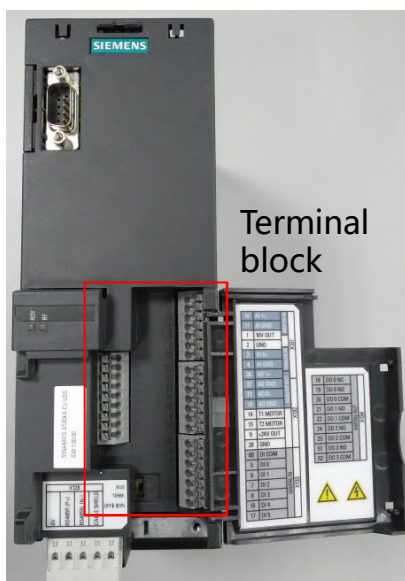
## SINAMICS G120XA CU wiring overview

G120XA CU provide fixed terminal block, which support 1.5mm<sup>2</sup> (AWG 16) wires

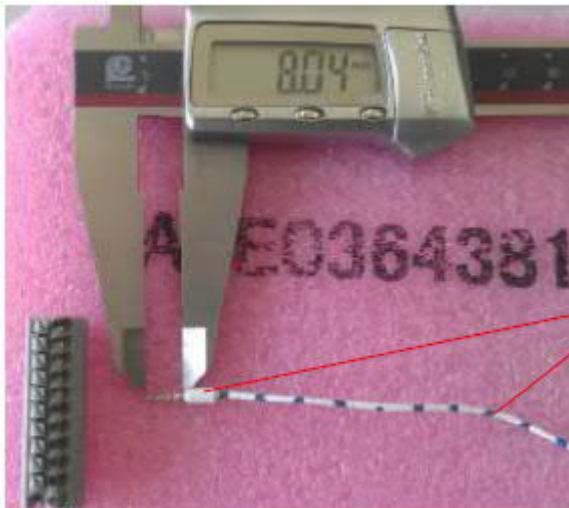
It can wiring by the following 3 ways:

- Finely stranded conductor + Insulated terminal
- Finely stranded conductor + Non-Insulated terminal
- Solid conductor without terminal

Cable with twin end sleeves are not permissible

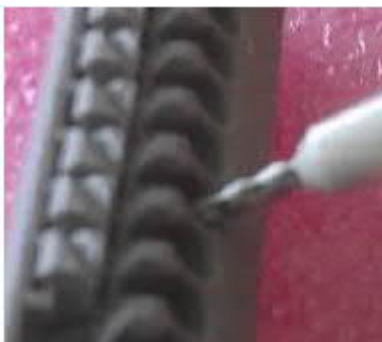
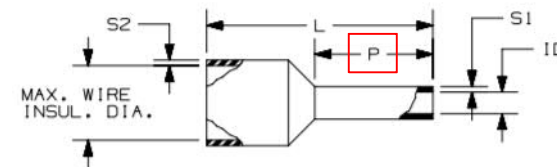


# Finely stranded conductor + Insulated terminal



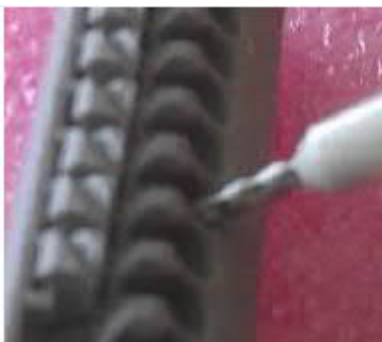
Requirement:

1. Conductor: 0.25(min)~0.5(max)mm<sup>2</sup>
2. Use matched terminal, Length P 8~9mm, Outer diameter OD<1.5mm



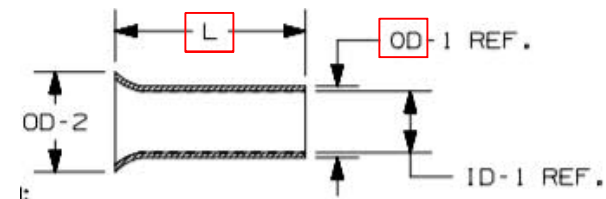
3. Use matched crimping pliers  
(Recommended for non-insulated terminal according to DIN 46228 Part 1 and insulated terminal according to DIN 46228 Part 4, 0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp)

# Finely stranded conductor + Non-Insulated terminal



Requirement:

1. Conductor: 0.25(min)~1(max)mm<sup>2</sup>
2. Use matched terminal, Length L 8~9mm, Outer diameter OD-1<1.5mm



3. Use matched crimping pliers  
(Recommended for non-insulated terminal according to DIN 46228 Part 1 and insulated terminal according to DIN 46228 Part 4, 0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp)



## Solid conductor without terminal



### Requirement:

1. Conductor: **0.2(min)~1.5(max)**mm<sup>2</sup>
2. Recommended wire strip length **8~9**mm
3. Wiring step: press the button with screwdriver, then insert the conductor



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**Thank you  
very much**

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