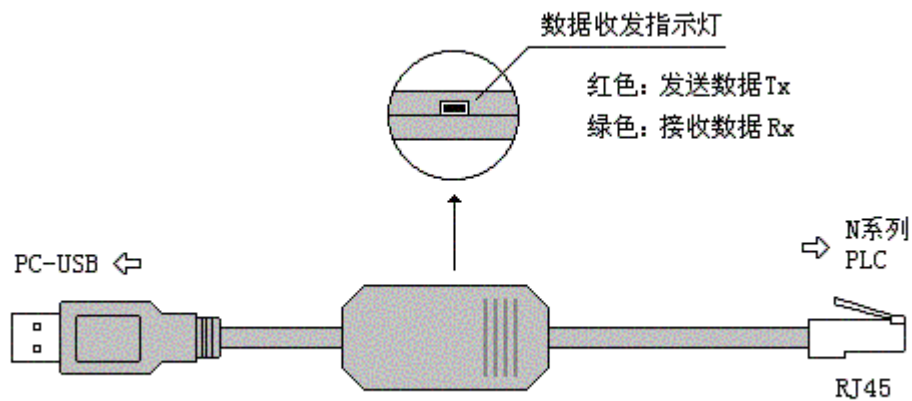**User's Guide for USB-CNV3 Programming Cable**

Summary:

USB-CNV3 is the programming cable in which USB interface provided both the serial connection and RS232 signal conversion. Under the control of computer-driven driver, the programming cable makes it possible for the computer's USB interface to simulate the traditional serial (known as COM interface), thus various existing programming software such as communications software, monitoring software and other applications can be normally used. The working power supply of this cable is directly from the USB port, but not the PLC programming interface. The two-color LED on the converter box indicates data's transceiving status.

USB-CNV3 is applicable to Fuji N Series (NB, NJ, NS) PLC, support the largest communications distance is 1.5 km.

Outline configuration:

数据收发指示灯
红色：发送数据Tx
绿色：接收数据Rx

PC-USB

N系列 PLC

RJ45

Features and technological index:

● Support USB-CNV3 operating system: Windows2000/XP (WinNT4/95/98/Me/DOS not

included)

● Support USB-CNV3 programming software version: Flex V1.0 and above

● Fully compatible with USB V1.1 norms and USB CDC V1.1

● USB-bus powered, with current consumption of 50 mA

● Baud rate: 300 bps ~ 1Mbps automatically adapt to the standard baud rate

● Support UART data format: data bits: 7-8; stop bit: 1, 2; check-bit: odd / even / no parity

● support long-distance communications, the largest communications is 1.5 kilometer (19200 bps)

● Each PC only supports one USB cable programming

● Working temperature: -20 ~ +75 ℃
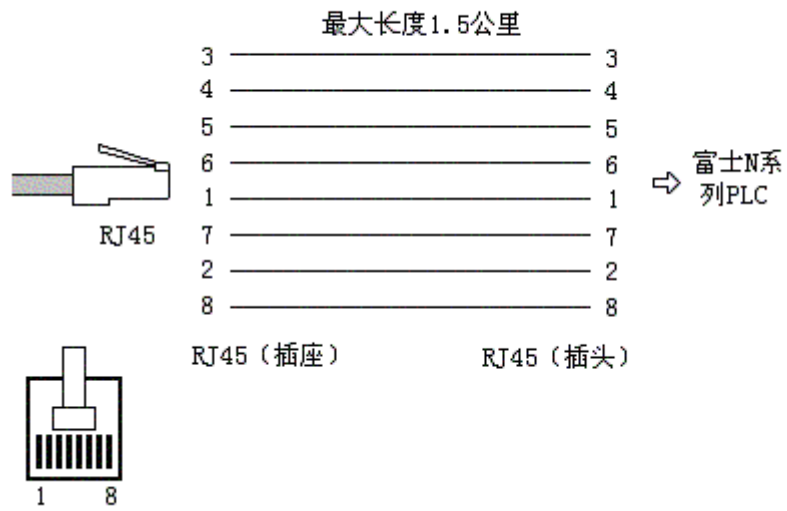
● Cable length: 3 m; Color: black

Usage:

USB device drivers should be installed before using USB-CNV3 programming cable, which are available on the CD-ROM sold together with the cable. And for the specific installation steps, please refer to the instruction files on the CD-ROM drivers, and details are not necessarily listed here.

After completing Driver installation, the corresponding COM port for the USB-CNV3 programming cable will be displayed in the "Device Manager" of Window. The step next is just to choose this COM port in the programming software and other application software and keep other communication parameters as in the Default settings. And the following steps are exactly the same as in the traditional programming cables with RS232 interfaces.

Long-distance communications:

The largest communications range between the USB-CNV3 programming cable and the PLC is up to 1.5 kilometers (19200 bps)。The user must follow the self-made plans to extend cable. Communication lines should be five 8-twisted pair (cable). When the distance is over 1,500 m , RS422 repeater (model: E485GA, products of FOURSTAR as well)could be installed to extend the distance

Please Note: USB interface cable cannot be extended.

最大长度1.5公里

```
        3 ———————————————— 3
        4 ———————————————— 4
        5 ———————————————— 5
        6 ———————————————— 6        富士N系
        1 ———————————————— 1    ⇨   列PLC
RJ45    7 ———————————————— 7
        2 ———————————————— 2
        8 ———————————————— 8
```

RJ45（插座）   RJ45（插头）

```
1      8
```

Due to internal resistance have been installed in USB-CNV3 and the PLC, no external

terminal resistance is needed.