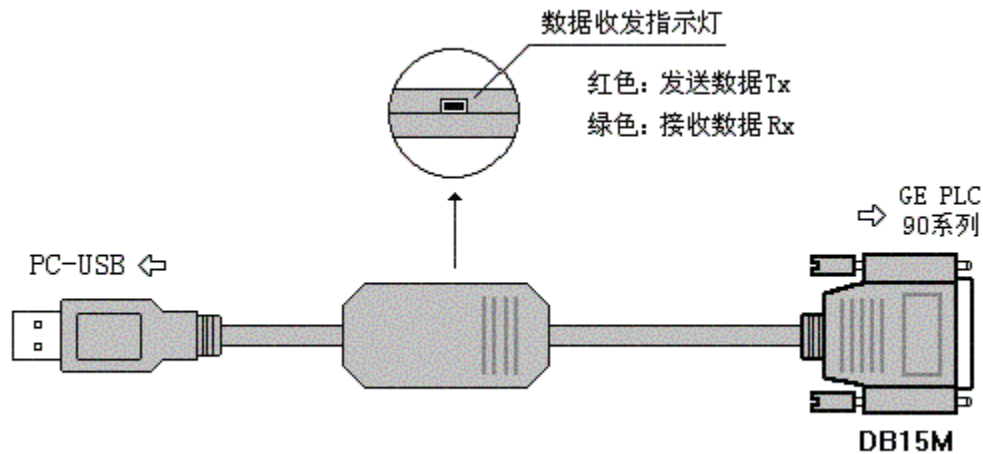**The manual of IC690USB901 programming cable**

IC690USB901 is a conversion programming electric cable that provides the serial connection and the RS422 signal conversion and the SNP protocol through the USB connection and that is moved under the driver control in the computer and becomes the traditional serial port by simulating computer's USB connection (to be named the COM mouth), and then could be used to exist each kind of application software and so on programming software, correspondence software and monitoring software. This electric cable's work power source is from the USB port, no longer by the PLC programming mouth power supply and the bi-color light emitter diode on the transformed box indicates the data receiving and dispatching condition.

The IC690USB901 programming electric cable is suitable for GE 90 series PLC and supports the biggest signal distance 1.5 km.

数据收发指示灯
红色：发送数据Tx
绿色：接收数据Rx

PC-USB ⇐

GE PLC
⇨ 90系列

DB15M

Characteristic and technical specification:

● The operating system that supports IC690USB90 : Windows2000/XP (WinNT4/95/98/Me/DOS

support)

● The programming software release that supports IC690USB901: CIMPLICITY ME V5.0 and

above

● The standard that completely compatible USB V1.1 and USB CDC V1.1

● USB main line supply power and current sinking approximately 50mA

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

● Supports the UART data format: Data position: 7th, 8, stop the position: 1st, 2, verification

position: odd/even/no parity

● Support long distance correspondence, biggest signal distance 1.5 kilometers (when 19200bps)

● Each PC only supports a USB programming electric cable

● Operating temperature: - 20~+75℃

● Cable length: 3 meters, color: Black

Remote communication:

The maximum signal distance between IC690USB901 programming electric cable and the PLC may amount to 1.5 km (when 19200bps). The user must self-extend electric cable through the following chart and the order wire uses the cross-sectional area is the 0.22mm2 above shielded twisted pair. When the distance is longer than 1500 meters may install the RS422 repeater   (the model: E485GA, four star electron product) in the line to lengthen the signal distance.

note: Cannot lengthen the USB connection the electric cable.