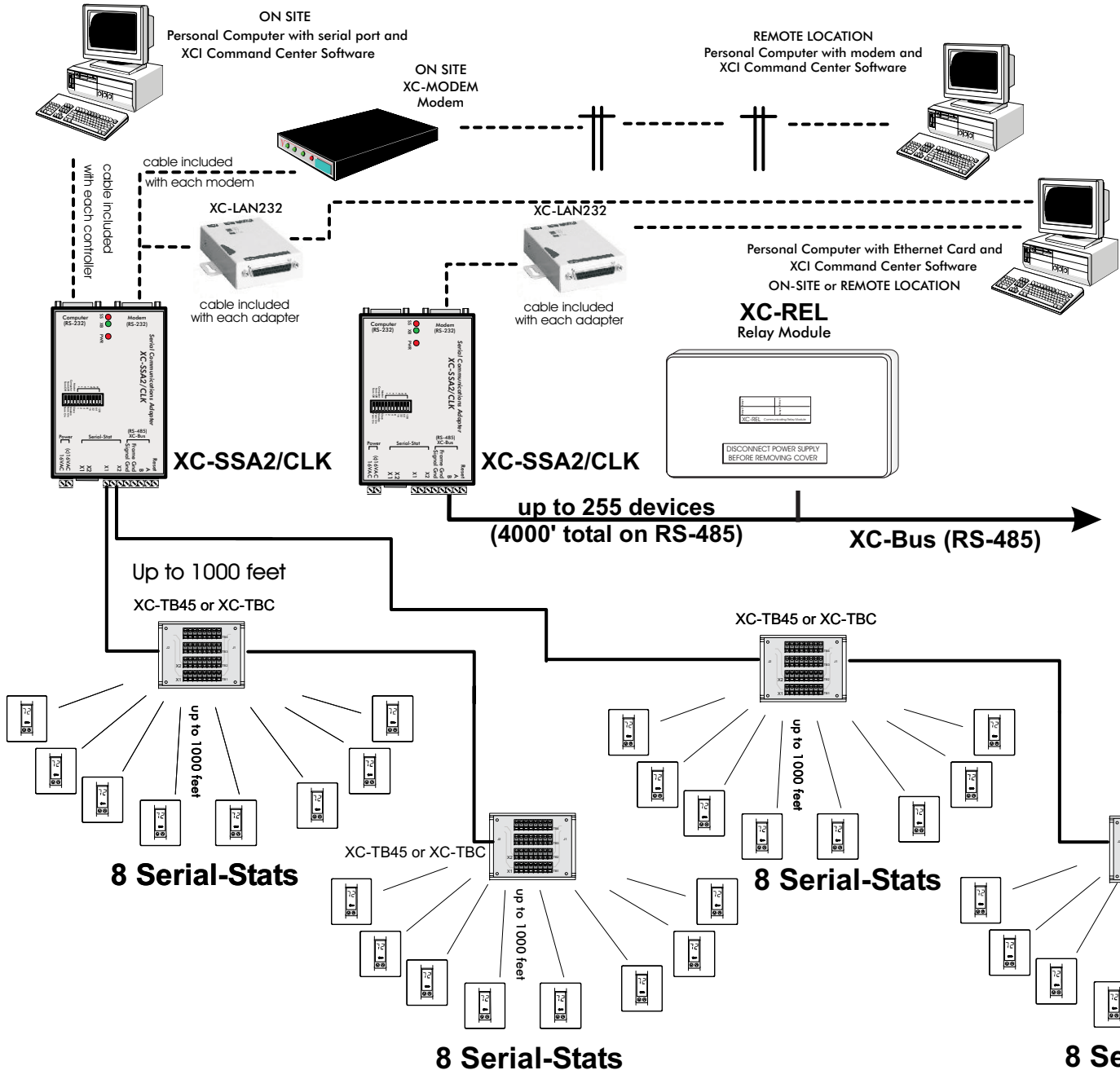




# Network Wiring for Large Systems with 32+ Thermostats and/or Relay Modules



**Cable and Wiring Notes**  
All XCI products follow industry standard data communications wiring practices. Refer to your local building codes for specific requirements.

- Wiring Guidelines**
- A) Any Serial-Stat can be up to 1000 feet away from the Serial-Stat Controller
  - B) Total of 3,000 feet of cable on any one controller
  - C) ANY combination of home-run, daisy-chain, or multi-drop wiring configuration may be used. See other XCI drawings for details

- XC-Bus (RS-485) Wiring Guidelines**
- A) Multiple Serial-Stat Controllers (XC-SSA2/CLK) can be interconnected
  - B) The last Serial-Stat Controller in the chain may be up to 4000 feet away.

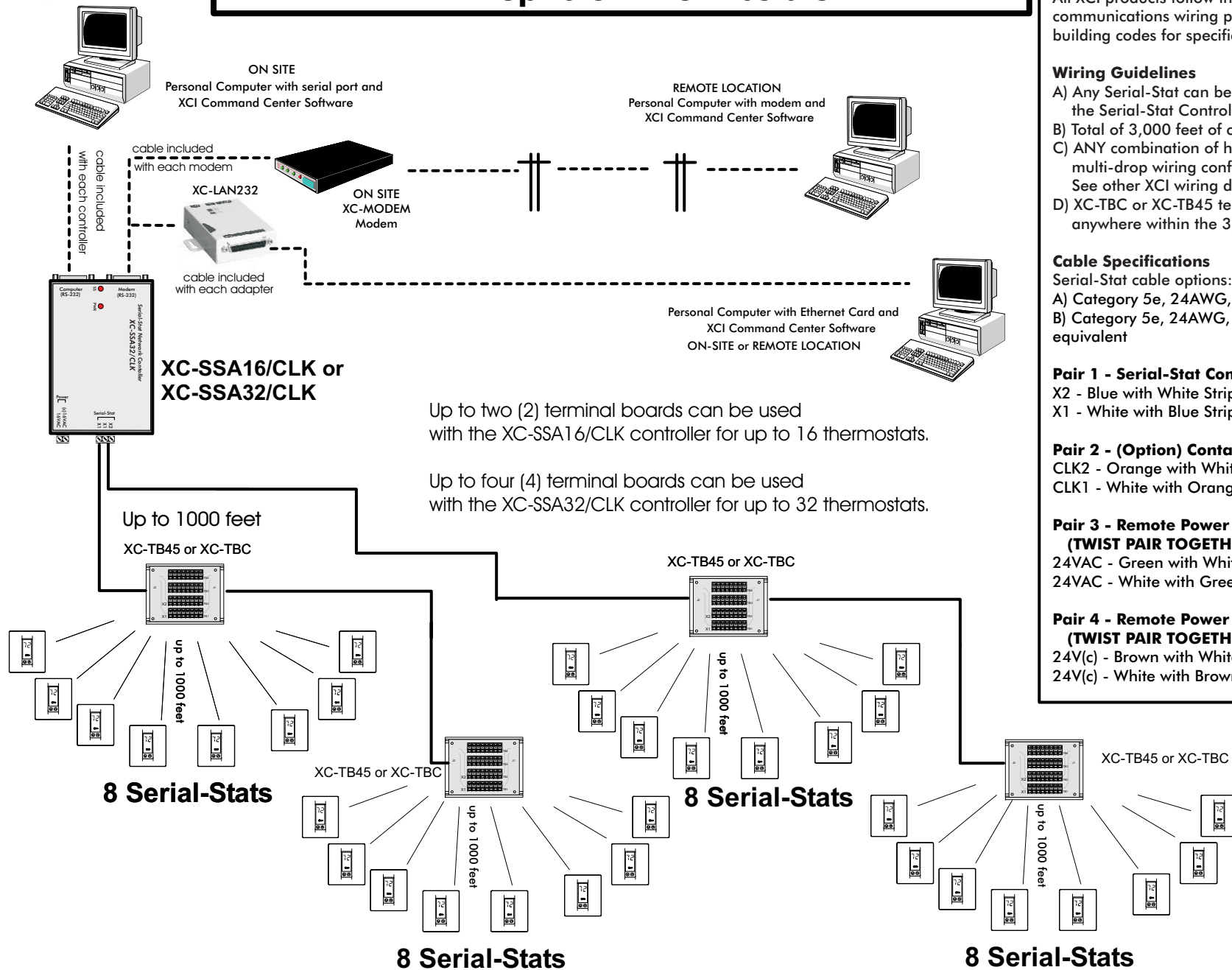
**Cable Specifications**  
XC-Bus (RS-485) cable options:  
A) Category 5e, 24AWG, 4-pair cable  
B) Category 5e, 24AWG, 4-pair cable, plenum rated  
Serial-Stat cable options:  
Same as XC-Bus (RS-485) cable

**Typical Connection for Serial-Stat Bus**  
See RS-232C Network Diagram

- Typical Connection for XC-Bus (RS-485)**
- Pair 1 - XC-Bus Expansion/Peripheral Bus**
    - A - Blue with White Stripe
    - B - White with Blue Stripe
  - Pair 2 - (Option) Ground**
    - Frame Ground - Orange with White Stripe
    - Signal Ground - White with Orange Stripe
  - Pair 3 - (Option) Remote Power**
    - 16-24VAC (common) - Green with White Stripe
    - 16-24VAC - White with Green Stripe
  - Pair 4 - (Option) Spare Pair**
    - Spare - Brown with White Stripe



# Network Wiring for Small Systems with up to 32 Thermostats



## Cable and Wiring Notes

All XCI products follow industry standard data communications wiring practices. Refer to your local building codes for specific requirements

## Wiring Guidelines

- A) Any Serial-Stat can be up to 1000 feet away from the Serial-Stat Controller
- B) Total of 3,000 feet of cable on any one controller
- C) ANY combination of home-run, daisy-chain, or multi-drop wiring configuration may be used. See other XCI wiring diagrams for details
- D) XC-TBC or XC-TB45 terminal boards may be placed anywhere within the 3,000 feet

## Cable Specifications

Serial-Stat cable options:

- A) Category 5e, 24AWG, 4-pair, or equivalent
- B) Category 5e, 24AWG, 4-pair, plenum rated or equivalent

## Pair 1 - Serial-Stat Communications Bus

- X2 - Blue with White Stripe
- X1 - White with Blue Stripe

## Pair 2 - (Option) Contact Closure Setback

- CLK2 - Orange with White Stripe
- CLK1 - White with Orange Stripe

## Pair 3 - Remote Power HOT (TWIST PAIR TOGETHER)

- 24VAC - Green with White Stripe
- 24VAC - White with Green Stripe

## Pair 4 - Remote Power COMMON (TWIST PAIR TOGETHER)

- 24V(c) - Brown with White Stripe
- 24V(c) - White with Brown Stripe