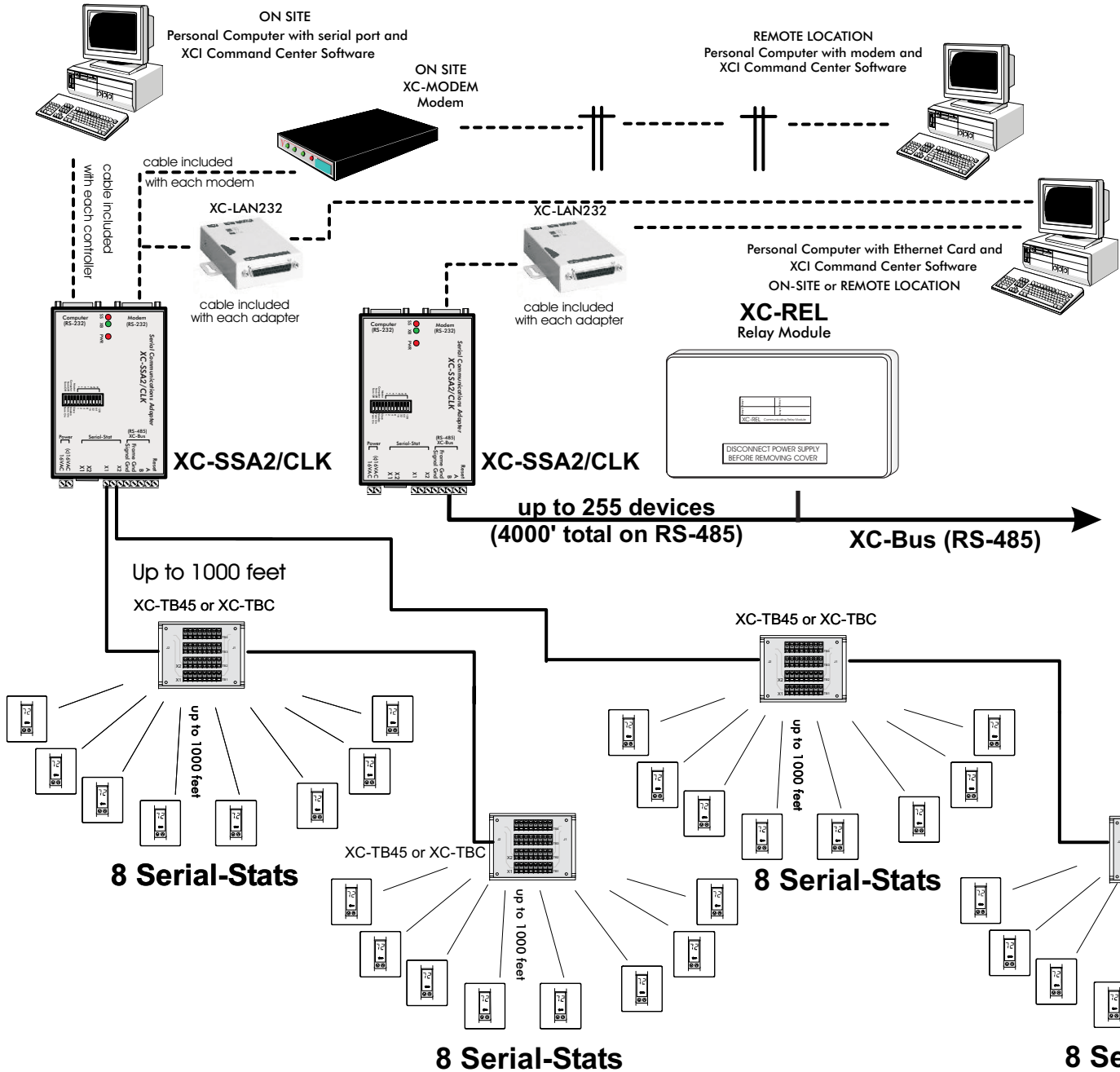




Network Wiring for Large Systems with 32+ Thermostats and/or Relay Modules



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