



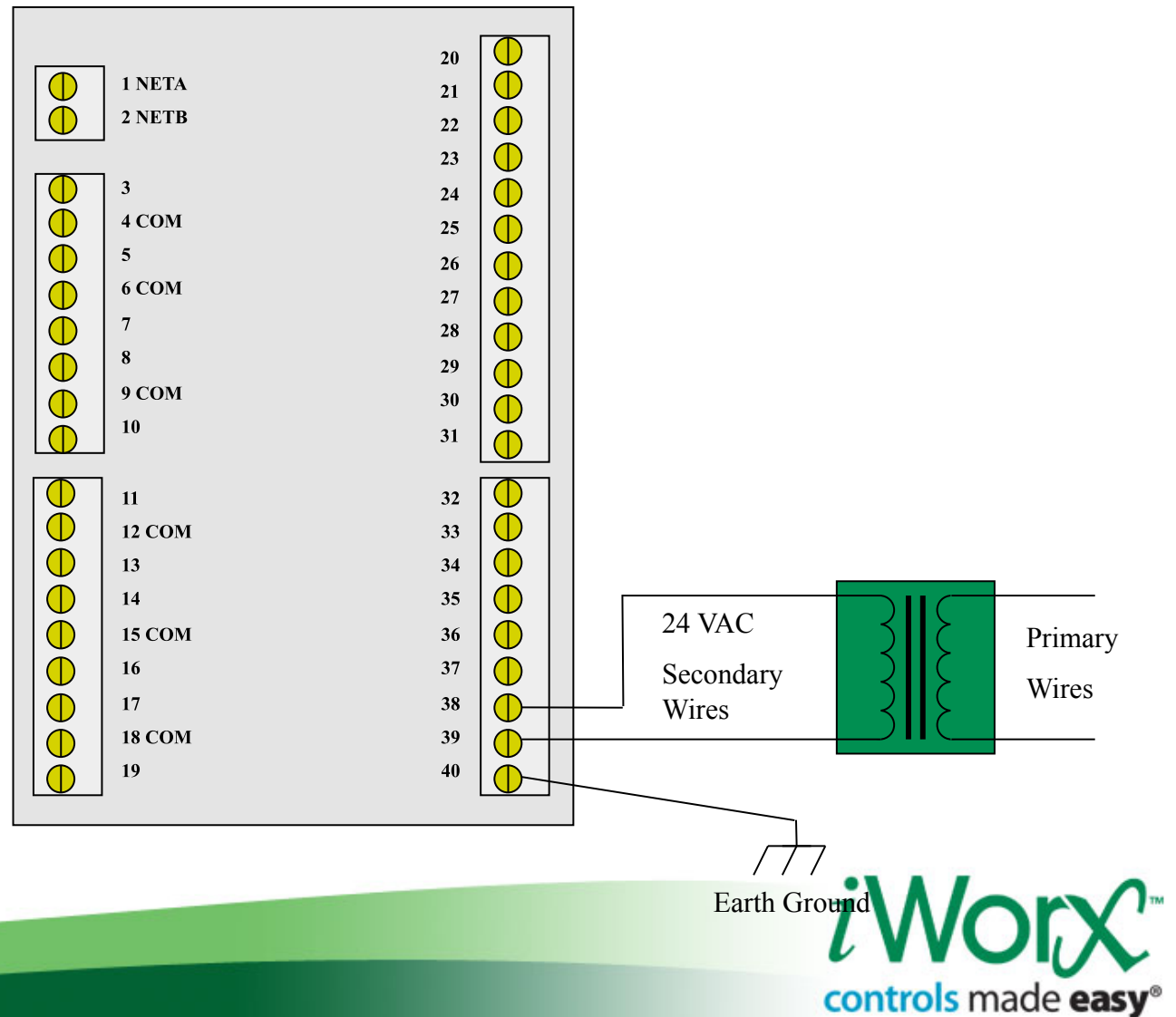
Recommended Wiring Practices

Input Power Wiring

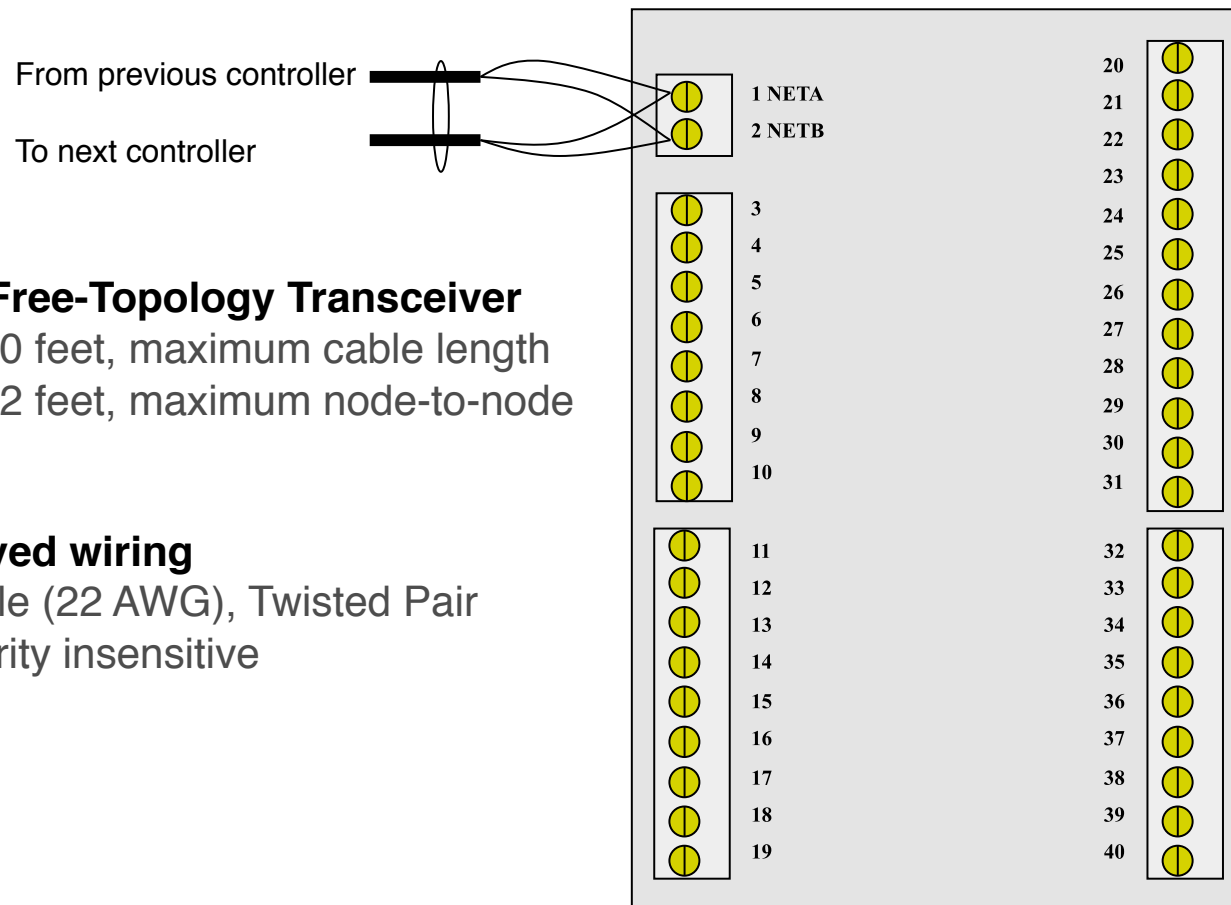
Power specs

- Input Power 20-28vac
- Consumption 15VA with No external loads

By connecting pin 40 to earth ground pins 4, 6, 9, 12, 15 & 18 are also connected to earth ground.



Communication Wiring



Using FTT-10A Free-Topology Transceiver

- 500 meters, 1640 feet, maximum cable length
- 400 meters, 1312 feet, maximum node-to-node distance

Use only approved wiring

- Use Level 4 cable (22 AWG), Twisted Pair
- FTT-10A is Polarity insensitive



Approved Communication Wiring

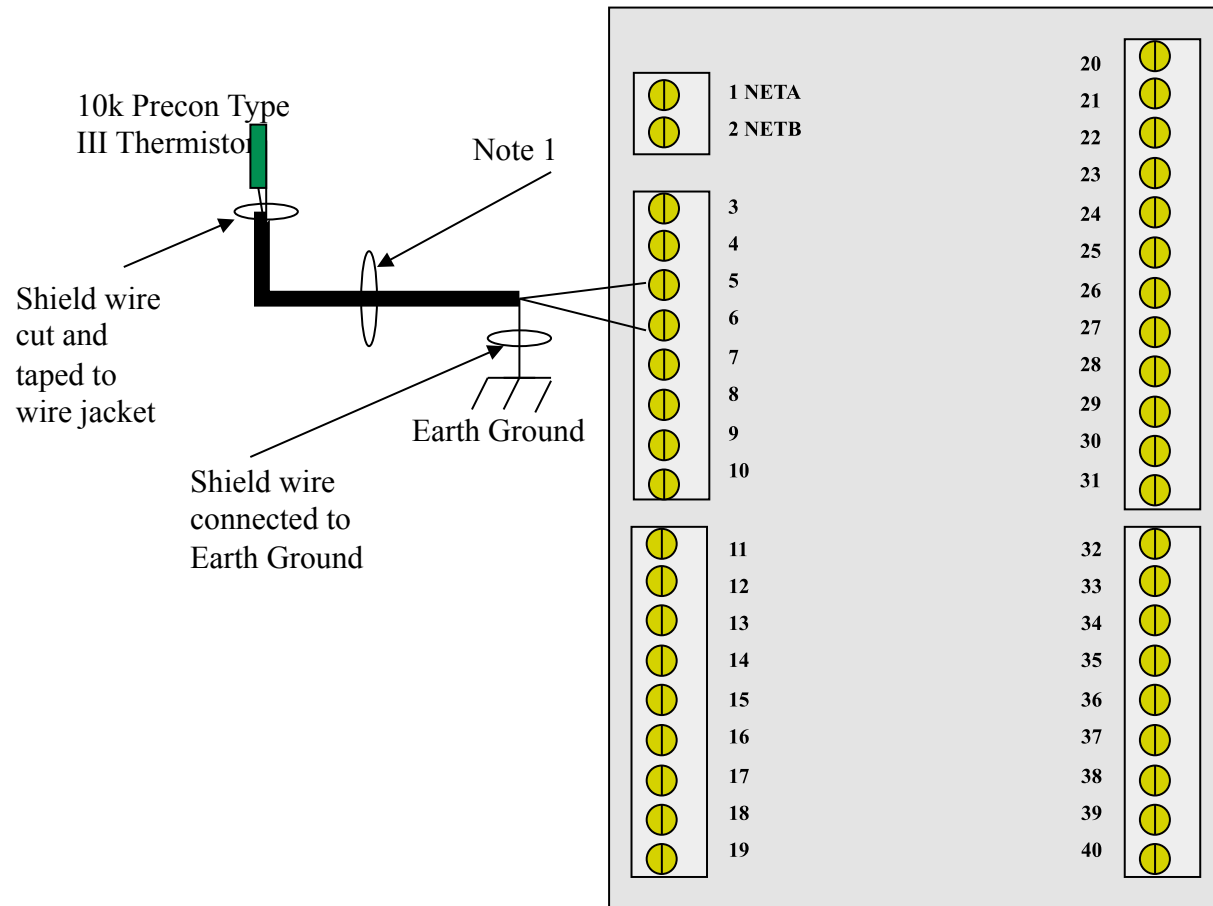
Taco

Wire Description (Level 4)

Part # WIR-022; 1000 ft. spool

22AWG, Unshielded, Plenum rated, twisted pair

Proper Sensor Wiring



Notes

1. Stranded Twisted Shielded Pair, 14 – 22 AWG; 18 AWG recommended



Approved Sensor Wiring

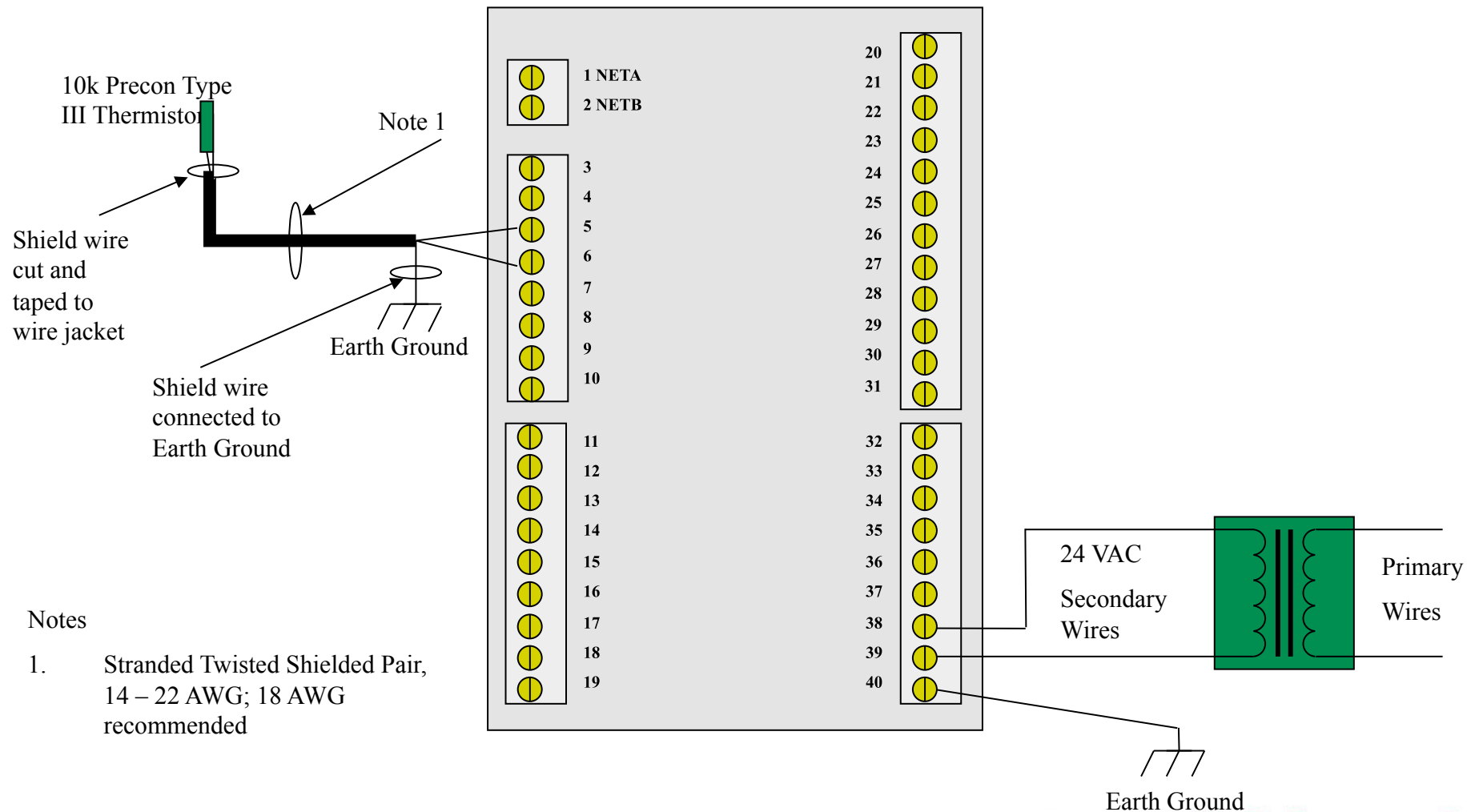
Taco

Wire Description (18AWG)

Part # WIR-018; 1000 ft. spool

Shielded, Plenum rated, 18AWG stranded twisted shielded pair

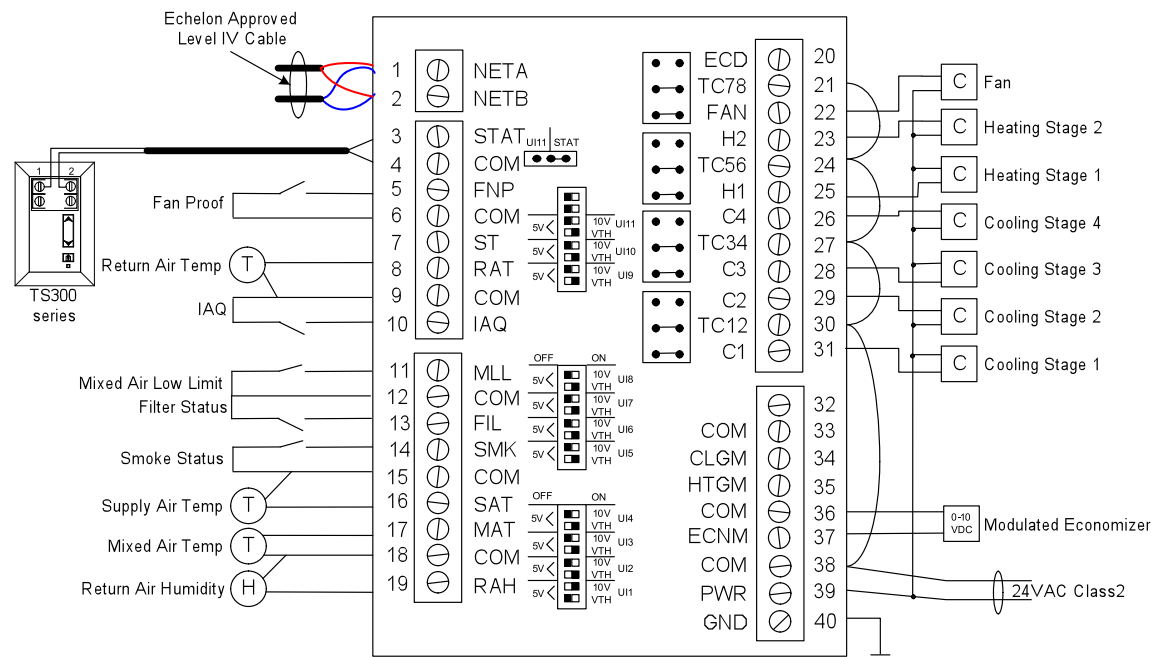
Proper Controller Grounding



Notes

1. Stranded Twisted Shielded Pair, 14 – 22 AWG; 18 AWG recommended

DXU-3 Power Isolated Example



Symbols

(T) 10 K ohm Precon Type III thermistor

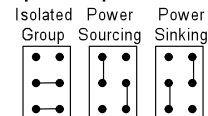
(H) 0-10VDC Humidity Sensor

(C) 24VAC pilot relay or contactor coil

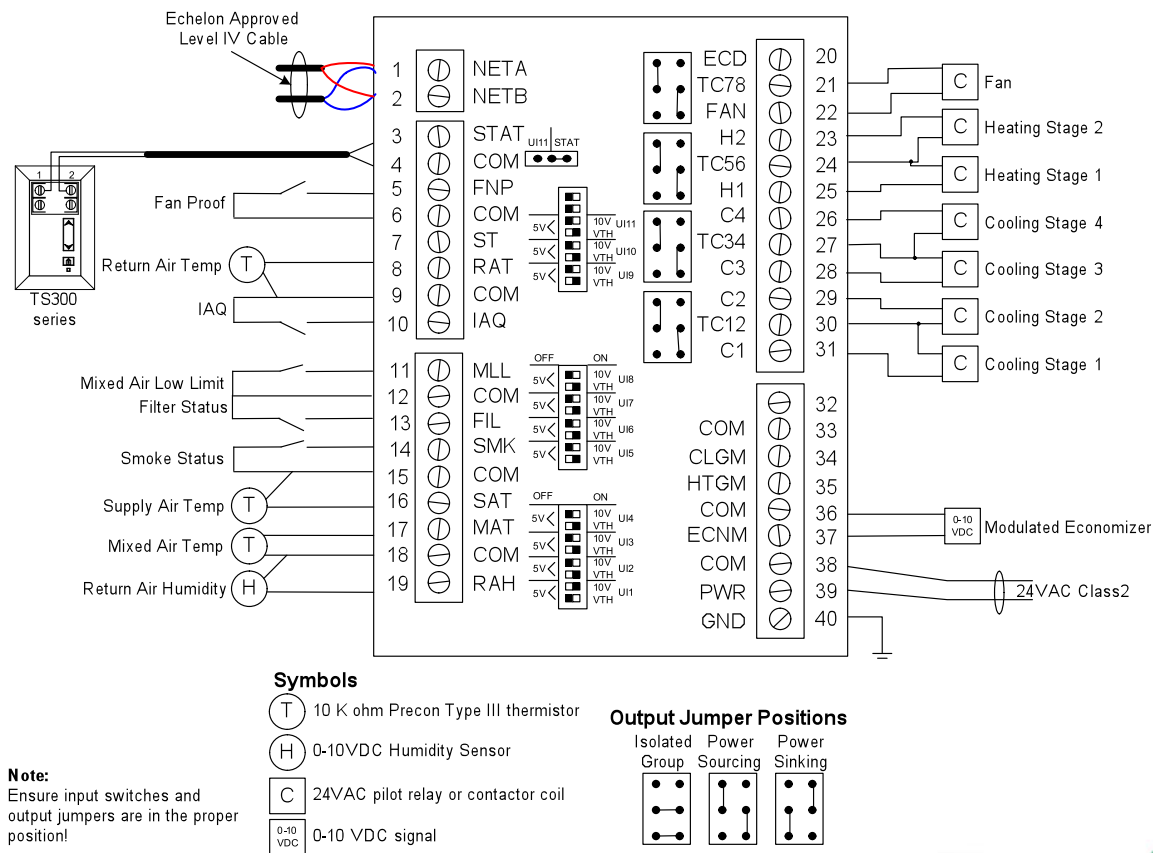
(0-10 VDC) 0-10 VDC signal

Note:
Ensure input switches and output jumpers are in the proper position!

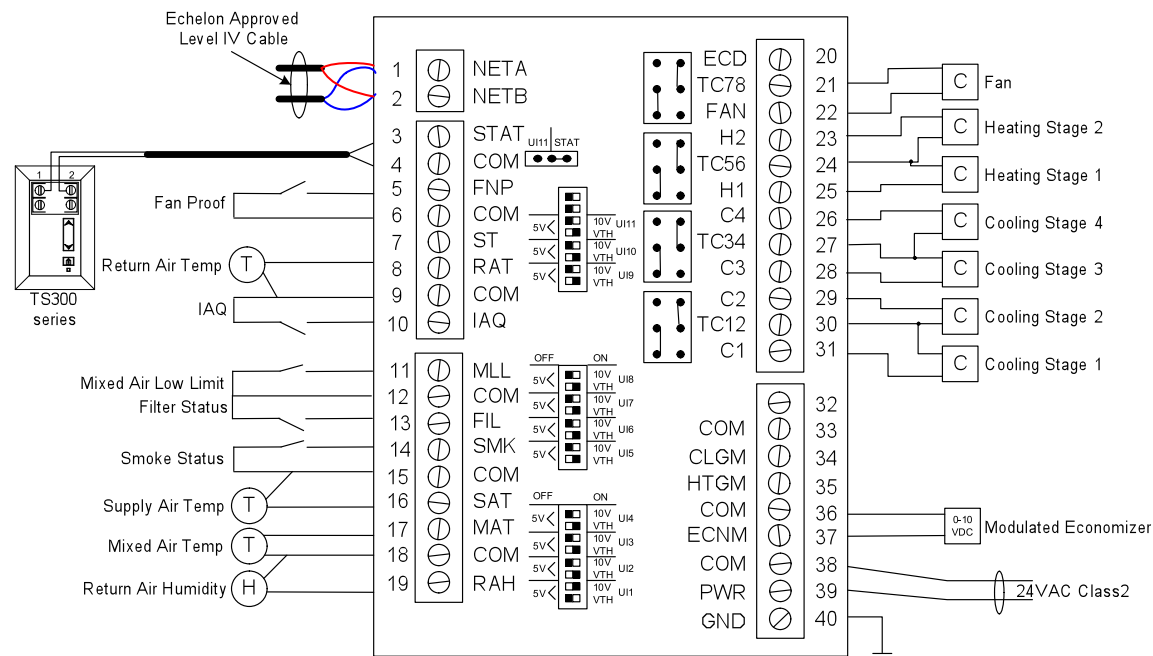
Output Jumper Positions



DXU3 Power Sourcing Example



DXU3 Power Sinking Example



Symbols

(T) 10 K ohm Precon Type III thermistor

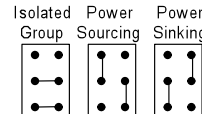
(H) 0-10VDC Humidity Sensor

(C) 24VAC pilot relay or contactor coil

(0-10 VDC) 0-10 VDC signal

Note:
Ensure input switches and output jumpers are in the proper position!

Output Jumper Positions



Typical wiring for a Split System, 1 stage heating/cooling, using a DXU-3

Use only Echelon approved cable

From previous controller

To next controller



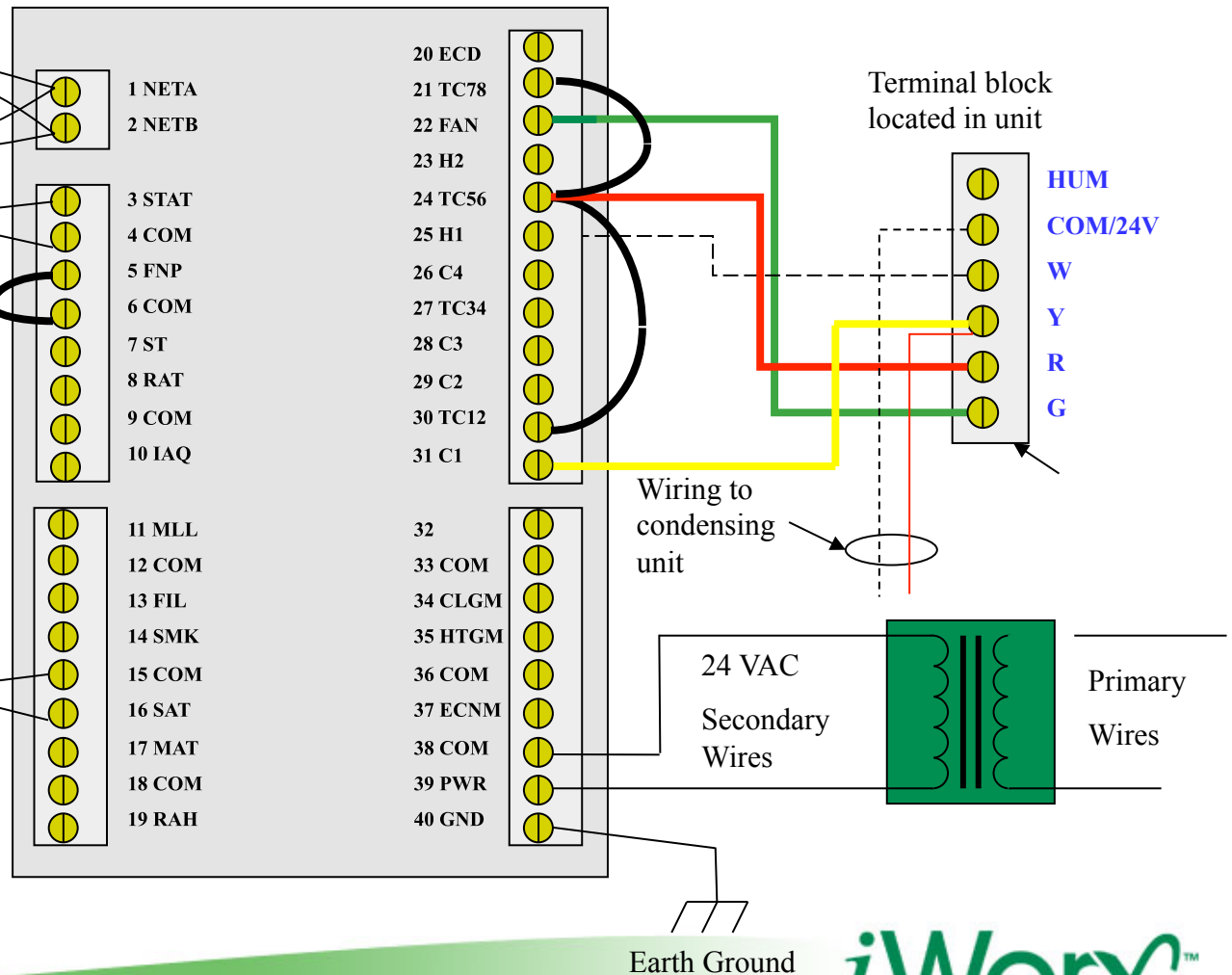
Stranded Twisted Shielded Pair, 14 – 22
AWG; 18 AWG recommended

10k Precon Type
III Thermistor









Shield wire
cut and
taped to
wire jacket

Earth Ground

Shield wire
connected to
Earth Ground



Controller switch configurations

OFF		ON	
5V <		10V	UI4
		VTH	
5V <		10V	UI3 is in the 0-10 V position
		VTH	
5V <		10V	UI2 is in the thermistor position
		VTH	
5V <		10V	UI1 is in the 0-5 V position
		VTH	

Triac Outputs

- Rated at 1 amp
- Must wire switching 24 AC voltage to TCxx Terminal
- Outputs are paired together so they share a TCxx
- TCxx's are not tied together



Environmental ratings

- Temperature: 14 F to 140 F (-10 C to 60 C)
- Humidity: 0 to 95 percent, non-condensing



Agency Listings and Compliances

- UL 916 for the US and Canada
- FCC Part 15 Class A