

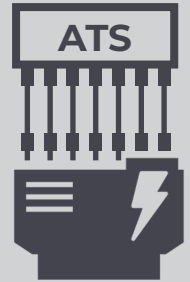
# 01

## Transfer Switch to Generator: Control Wiring

For most **automatic transfer switch (ATS)** installations, you'll need **7 control wires** between the ATS & the generator:

- **(2) Start Wires** – tell the generator when to start running.
- **(3) Position Feedback Wires** – provide feedback to let you know whether the ATS is in utility, off, or generator mode.
- **(2) DC Power Wires** – supply control power to & from the ATS.

*Tip: Always confirm voltage specs & terminal assignments with Generac's wiring diagram.*



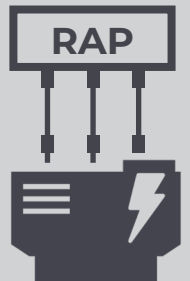
# 02

## Remote Annunciator Cabling

When a **remote annunciator panel (RAP)** is part of the installation (common in commercial applications or NFPA 110 setups), the recommended cable is:

- **(2) #14 AWG stranded wires**
- **(1) 18/2 shielded stranded cable** – Belden 3105A is a commonly used reference here.

Shielded cable is critical to avoid signal interference, especially when long cable runs are involved or the wire is routed near power circuits.



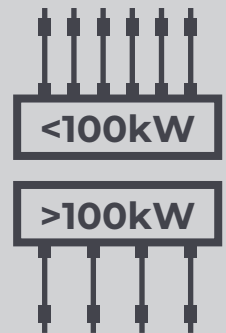
# 03

## Remote Emergency Stop (E-Stop) Wiring

If the system includes a **remote E-Stop** (per NEC or customer request), the wire count will depend on the generator's size:

- **<100kW units:** Run **(6) #12 AWG stranded wires**
- **>100kW units:** Run **(4) #12 AWG stranded wires**

E-Stops should be tested during commissioning to ensure safe shutdown across all locations.



# 04

## Always Verify with the Manufacturer & AHJ

While this information reflects industry norms, you should always:

- Reference the **generator & ATS manufacturer's installation manual**
- Verify requirements with your local **Authority Having Jurisdiction (AHJ)**
- Account for site-specific factors like distance, conduit fill, & grounding requirements



**NEED HELP? CONTACT A WOLTER GENERATOR EXPERT TODAY!**