



MODEL TS2104

C-WIRE ADAPTER

OVERVIEW

The TrickleStar C-Wire Adapter is an optional accessory for the TrickleStar Wi-Fi Smart Thermostat.

The common wire (C-wire) is used to provide a return path to power your thermostat. If your HVAC system has a C-wire, you can directly connect the TrickleStar Thermostat to the 24 VAC power source and you do not need to install the C-Wire Adapter. If your HVAC system does not have a C-wire, it will not power your TrickleStar Thermostat. In this case, you need to install the TrickleStar C-Wire Adapter.

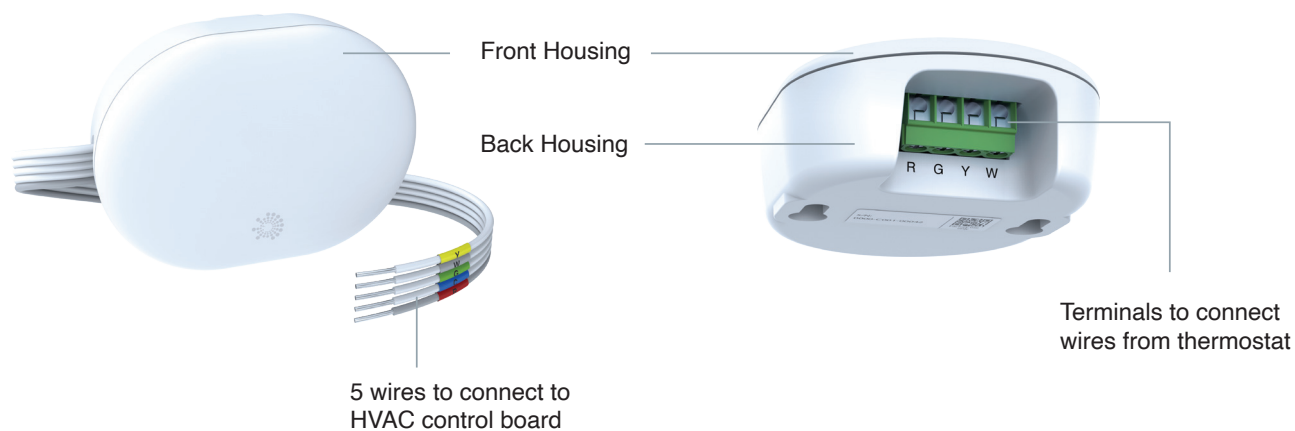
KEY FEATURES

- Works with most HVAC systems
- Small, compact and easy to install

PRODUCT WARRANTY

Two-year limited product warranty

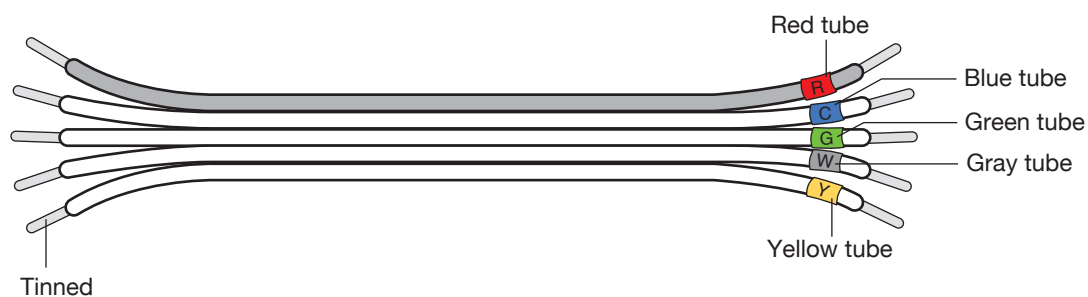
FEATURES



CONNECTIONS

Install the C-Wire Adapter between the TrickleStar Thermostat and the HVAC control board. Connect the 5 wires to the HVAC Control Board and the R, G, Y, and W wires from the thermostat to the respective terminals on the C-Wire Adapter.

WIRING



Wire name	Wire color	Label	Heat shrink tubing color
R	Gray	"R"	Red
C	White	"C"	Blue
G	White	"G"	Green
W	White	"W"	Gray
Y	White	"Y"	Yellow

WIRE REQUIREMENTS

Wire length	: 457 mm ± 10 mm
Wire Type	: Flat cable, 18 AWG (34/0.18TS), UL1007, PVC OD: 2.1 ± 0.2 mm, ROHS
Wire color	: Gray for R, and white for the others
Wire preparation	: Pre-stripped 10 mm ± 2 mm, tinned

TERMINALS

Terminal name	Label
R	"R"
G	"G"
Y	"Y"
W	"W"

TERMINAL SPECIFICATIONS

Type	: Dinkle ED500V or equivalent
Pitch	: 5 mm
Rated voltage	: 300 V (UL)
Rated current	: 16 A (UL)
Solid wire	: AWG 24 to 14
Stranded wire	: AWG 24 to 14
Insulation withstand voltage	: 3 kV
Wire strip length	: 5 to 6 mm

PRODUCT SPECIFICATIONS

OPERATING CONDITION

Temperature	: 32°F to 122°F (0°C to 50°C)
Humidity	: 5% to 95% RH (non-condensing)

STORAGE CONDITION

Temperature	: -4°F to 140°F (-20°C to 60°C)
Humidity	: 5% to 95% RH (non-condensing)

ELECTRICAL REQUIREMENTS

Power supply	: 24 V AC (18-30 V AC, 60 Hz)
Total power consumption	: 0.43 W
Switching capacity	: 1A / 30 V AC per terminal

Disclaimer

The C-Wire Adapter is compatible with TrickleStar Smart Thermostat only.
The C-Wire Adapter warranty will be voided if it was installed for use with thermostat other than TrickleStar Smart Thermostat.
TrickleStar shall not be liable for any damages as a result of using the TrickleStar C-Wire Adapter with thermostats other than TrickleStar Smart Thermostat.

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GENERAL

Dimension (Width/Height/Depth) (Approx.)	: 3.1 in. x 2.4 in. x 1 in. (79.7 mm x 59.7 mm x 25.2 mm)
Weight (Approx.)	: 2.7 oz. (76.1 gm)

WHAT'S INCLUDED

- C-Wire Adapter
- Screws and drywall plugs
- Wire labels
- QR code sheet

ENVIRONMENTALLY-FRIENDLY FEATURES

- Recyclable packaging
- Mercury-free
- Arsenic-free
- PVC-free
- PBT-Free
- RoHS compliant

APPROVALS

CA PROP 65

California Proposition 65 Compliant