Wiring Guidelines

The RV-C network wiring is a very important aspect of a functional and reliable network. The network wiring and connections are essentially the 'spinal cord' of the network through which messages are transmitted to each of the RV-C devices in the network! Therefore, it is very important that special care and attention to the following guidelines be observed.

Spyder Controls Corporation has carefully developed a wiring system to ensure a successful installation that is easy and simple to complete. Below is a very basic diagram that illustrates the various aspects of the Spyder Controls RV-C Network Wiring System.
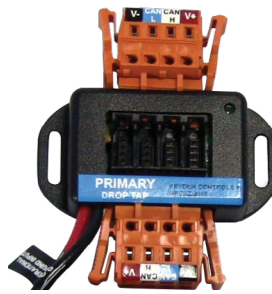
Part #: 70972

Terminator Drop Tap

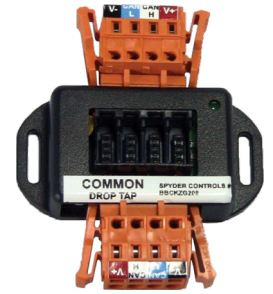**Fig. 1A:** Terminator taps are located at each end of the network.

Part #: 70971

Primary Drop Tap

Fig. 1B: Primary taps are located in the center of the network to provide 12V and Ground
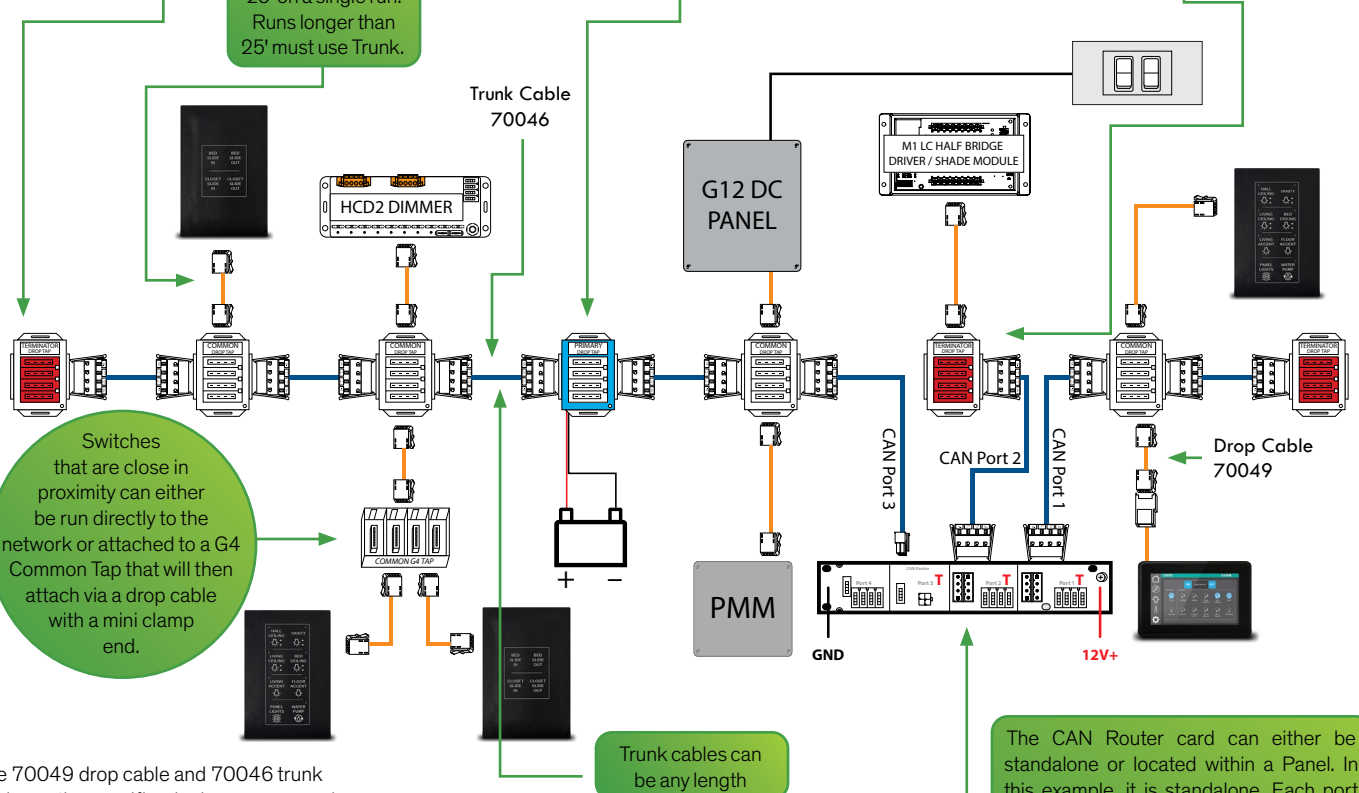
Part #: 70970

Common Drop Tap

Fig. 1C: Common taps are located throughout the network where drop cables need to connect

Drop cables can be a maximum of 25' on a single run. Runs longer than 25' must use Trunk.

Trunk Cable 70046

Switches that are close in proximity can either be run directly to the network or attached to a G4 Common Tap that will then attach via a drop cable with a mini clamp end.

Trunk cables can be any length

HCD2 DIMMER

COMMON G4 TAP

G12 DC PANEL

M1 LC HALF BRIDGE DRIVER / SHADE MODULE

PMM

CAN Port 3
CAN Port 2
CAN Port 1

GND

12V+

Drop Cable 70049

The CAN Router card can either be standalone or located within a Panel. In this example, it is standalone. Each port on a CAN card is considered its own network and must be double-terminated. Dipswitches on the back of the card can be set to allow one termination per port, which allows the network to only require one additional termination point.

The 70049 drop cable and 70046 trunk cable are the specific wire harnesses used.
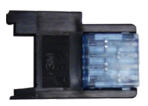
Part #: 70091 (Female)

Part #: 70090 (Male)

Drop cable mini clamp connectors are often male to male ends. Some switches and modules have what are known as "pigtails" which is a drop cable soldered/glued to the component with a male mini clamp end. In these instances, the drop cable run will be male/female.