

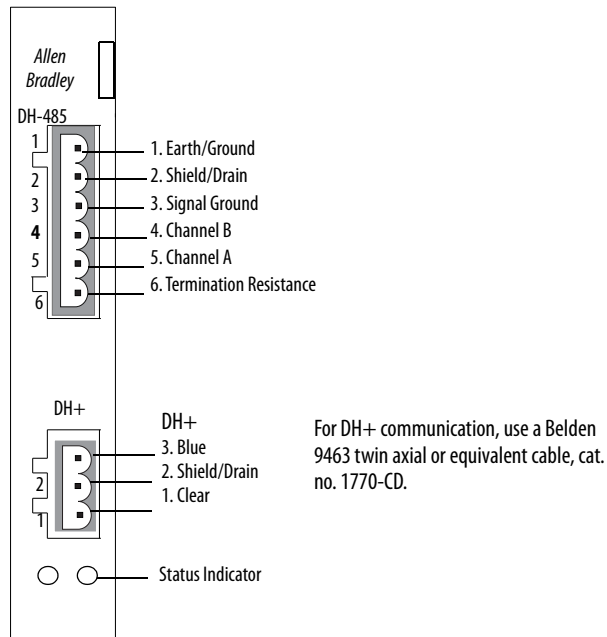
## DH-485/DH+ Communication Module

700 to 1500 terminals with a catalog number 2711P-RN6 or 2711P-RN6K communication module support communication with these networks:

- DH+™ networks
- DH-485 networks

The communication module has a separate port for each communication protocol. You can communicate with one network only at one time.

**Figure 19 - DH-485/DH+ Communication Module Connectors**



**IMPORTANT** See your controller documentation for appropriate controller connections.

## Status Indicators

The module has indicators that show the status of the DH-485 or DH+ network connection.

**Table 70 - DH-485 and DH+ Status Indicators**

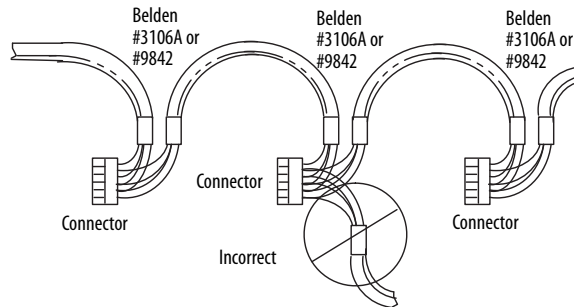
Indicator State	Description
Off	Channel is not online.
Blinking green	Device is only node on the network.
Solid green	Device is online and receiving token.
Blinking red	DH-485: Duplicate node. DH+: Parity error.
Solid red	Failed selftest.

## DH-485 Network Port Wiring

Refer to the figures to attach the RS-485 connector to a Belden 3106A or 9842 cable. Refer to [Controller Connections on page 151](#) if you are using standard Allen-Bradley® cables.

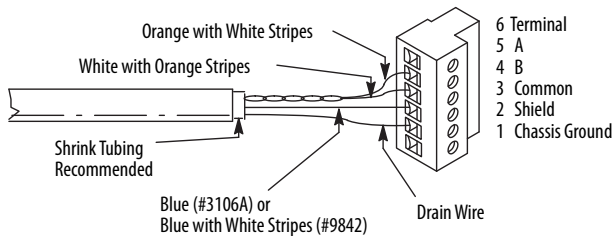
**IMPORTANT** A daisy-chained network is recommended. We do not recommend a hybrid star/daisy-chain network as shown.

**Figure 20 - Daisy-chain Connection**

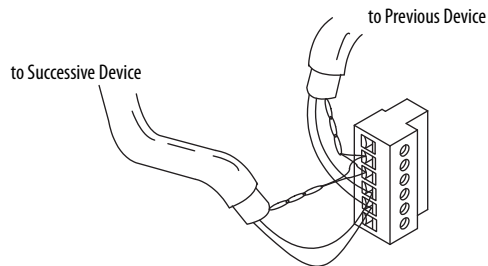


Attach the connector to a Belden 3106A or 9842 cable as shown in [Figure 21](#) or [Figure 22](#).

**Figure 21 - Single Cable Connection**



**Figure 22 - Multiple Cable Connection**



**Table 71 - Belden 3106A Wire Connections**

For this Wire/Pair	Connect this Wire	To this Terminal
Shield/Drain	Non-jacketed	Terminal 2 - Shield
Blue	Blue	Terminal 3 - (Common)
White/Orange	White with Orange Stripe	Terminal 4 - (Data B)
	Orange with White Stripe	Terminal 5 - (Data A)

## DH+ Network Connections

Use a Belden 9463 twin-axial or equivalent cable, catalog number 1770-CD, to connect a terminal to a DH+ link.

You can connect a DH+ link in two ways:

- **Trunk line/drop line** - from the drop line to the connector screw terminals on the DH+ connectors of the processor.
- **Daisy chain** - to the connector screw terminals on the DH+ connectors on the processor.

Follow these guidelines when installing DH+ communication links:

- Do not exceed these cable lengths:
  - Trunk line-cable length: 3048 m (10,000 ft)
  - Drop-cable length: 30.4 m (100 ft)
 The maximum cable length is determined by the baud rate.
- Do not connect more than 64 stations on a single DH+ link.

**Figure 23 - Terminal Connection to DH+ Link**

