NC200 Data Cable Type Identification

NC200, NC300

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Introduction

Two types of NC100, NC200, and NC300 data cables have been produced over the product's lifecycle. The first cable used a non-isolated connection to the NC200. This cable was produced and used in units prior to 2006. After 2006, a redesigned cable was introduced that utilized a new optically isolated connection. The NC200 unit connector was also modified so that it would accept either the old data cable (non-isolated) or the new Opto-Comm data cable.
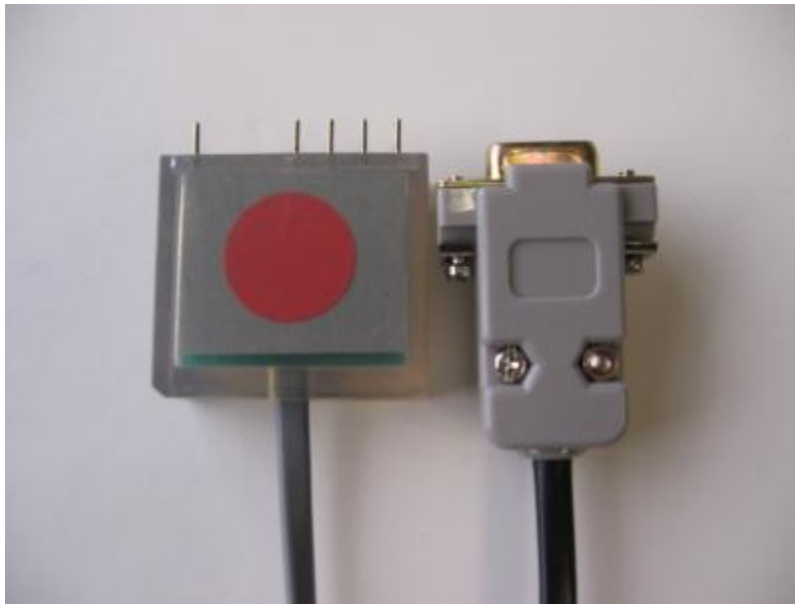
The new data cable can be used with any NC200 unit, however **the older data cable is not compatible with the new OPTO-COMM NC200 units (that is, the newer NC200 units sold after 2006).**

Note: Any pre-2006 NC200 unit sent in for repair after 2009 would likely result in a replacement unit being delivered to the customer, and older data cables will not properly interface to the new NC200 units.

Older data cable identification

The older non-isolated data cables can be identified by looking at the connector that attaches the cable to the NC200 device.

Older data cables were identified with a red or orange "dot" sticker on the outside of the connector:

Newer data cable identification

The newer opto-isolated data cables can also be identified by looking at the connector that attaches the cable to the NC200 device.

Newer data cables were identified with a yellow "dot" sticker on the outside of the connector:
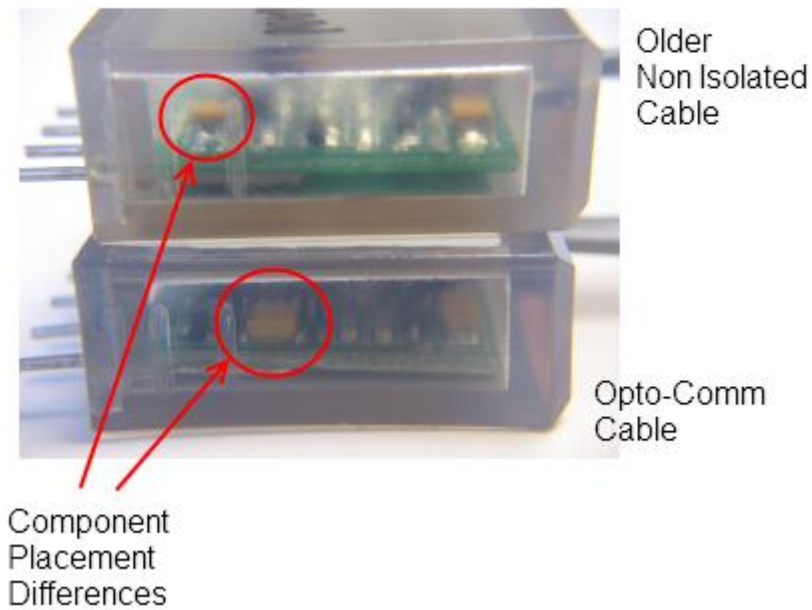

The new data cable was also marked on the opposite of the connector with the following sticker:

Identification when stickers are not present

If the data cable has lost the identification stickers, identification can also be made by examination of the enclosed PCB assembly through the transparent end of the connector.   The following image illustrates identification using differences in the PCB assembly. The top cable is the older data cable connector, and the bottom connector is the new OPTO-COMM cable. Note the placement of the orange component on the two PCBs when viewing from the left side of the connector:

Older
Non Isolated
Cable

Opto-Comm
Cable

Component
Placement
Differences

Below is a closeup of this same image without markups: