

TelePresence EX/MX Console Cable Creation with a CA-42 USB Data Cable



Document ID: 117177

Contributed by Eric Aittala, Cisco Engineer.
Jan 09, 2014

Contents

Introduction

Prerequisites

- Requirements
- Components Used
- Related Products

EX90 Console Cable Creation

- Verify the Cable Pinouts
- Prep the Cable
- Create the Cable
- Install the Cable Drivers
 - OEM Cable Drivers
 - Compatible Cable Drivers

Introduction

This document describes how to create a Cisco TelePresence EX90 console cable with a Nokia CA-42 USB data cable. There might be situations where consoling into an EX90 can solve an issue that is not related to hardware. A console cable for the EX90 is not provided by default, but one can be assembled or purchased.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on these software and hardware versions:

- Nokia CA-42 USB data cable or compatible cable

Note: If you do not use the Original Equipment Manufacturer (OEM) cable, ensure that the cable you use contains the PL2303 chip.

- RJ-45 crimp tool
- RJ-45 end
- Soldering iron (optional)
- Solder (optional)
- Wire strippers (optional)

The information in this document was created from the devices in a specific lab environment. All of the

devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Related Products

This document can also be used with these Cisco TelePresence models:

- EX90
- EX60
- E20
- MX200
- MX300

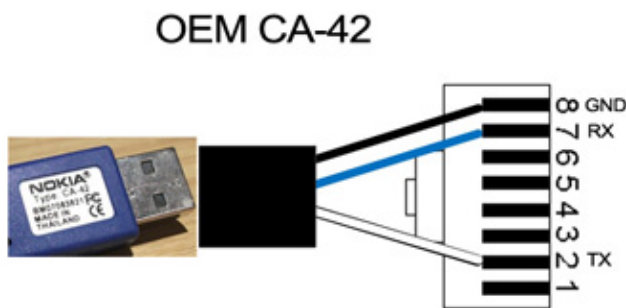
EX90 Console Cable Creation

This section describes how to create an EX90 console cable with a CA-42 USB data cable.

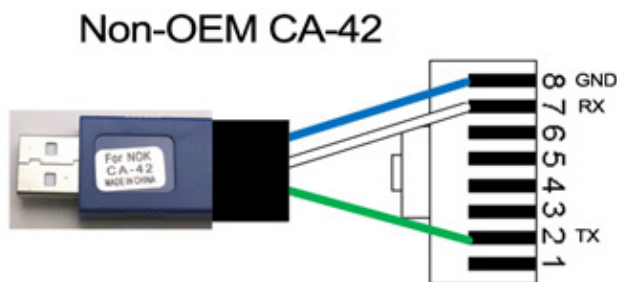
Verify the Cable Pinouts

Before you create the cable, locate the *TX*, *RX* and *GRD*.

Here is the pinout for the Nokia OEM cable:



Here is the pinout for the compatible non-OEM cable used in this example:

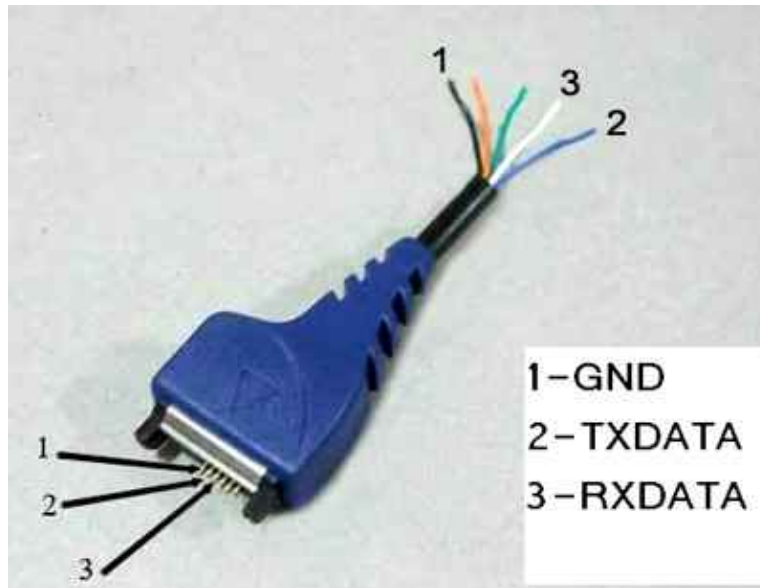


Note: Compatible cables might not have wires that are the same colors as those pictured in this document.

Prep the Cable

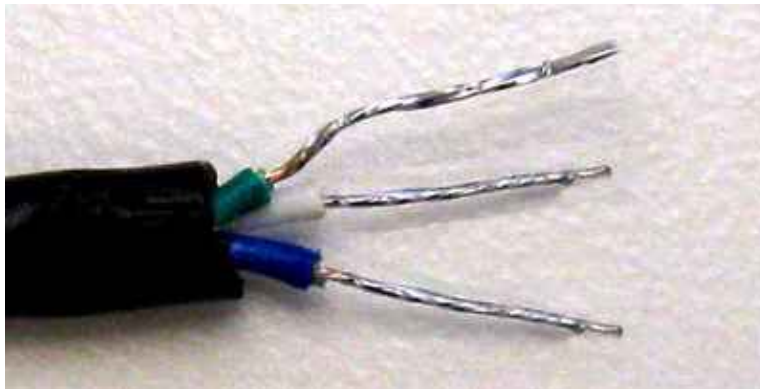
If you are not sure of the pinouts of the cable that you use, cut the connector off, but leave a couple of inches of cable.

1. Use a multimeter in order to locate the *TX*, *RX*, and *GND*.



2. Strip the sheathing from the *TX*, *RX*, and *GND*.

Tip: It is a good idea to solder the ends of the wires in order to make it easier to work with them.



Create the Cable

Crimp the RJ-45 on the USB end of the cable. Ensure that the *TX*, *RX*, and *GND* are in the correct positions before you crimp.



Install the Cable Drivers

OEM Cable Drivers

Download the drivers for the CA-42 OEM cable from the Prolific website. Use guest/guest for the username/password. Click the link for ***PL2303 USB to Serial Drivers***.

- For Microsoft (MS) Windows, locate this file: ***PL2303_Prolific_DriverInstaller_v1.7.0.zip***. This file contains all of the MS Windows drivers.
- For the Macintosh, locate the appropriate driver based on your operating system (OS) level.

Compatible Cable Drivers

- For MS Windows, use the ***Serial PS2303*** driver from usbserialdrivers.com.
- For the Macintosh, download drivers for:
 - ◆ OS X 10.5 and earlier from usbserialdrivers.com
 - ◆ OS X 10.6 from osx-pl2303.sourceforge.net
 - ◆ OS X 10.7 from noelflash.com