

# Airmar CHIRP Connection Guide

## Overview

Use this guide to connect an Airmar CHIRP transducer to a SOLIX®, ONIX®, or HELIX® CHIRP control head. Please read this guide before starting the installation so you may understand the connection requirements.

**Required Supplies (not included):** Airmar CHIRP transducer cable with bare wires, a junction or break-out box, cable cutter, wire stripper, and a Humminbird® transducer extension cable for your control head model as follows:

Control Head	Transducer Extension Cable
SOLIX and ONIX	EC 14W10
HELIX CHIRP	EC W10

**Customer Service:** To purchase cables, or if you have questions about the installation, visit our Web site at [humminbird.com](http://humminbird.com) or call Humminbird Customer Service at 1-800-633-1468.

## 1. Connect the Transducer to the Extension Cable

**WARNING!** Turn off power for all related equipment before you start the installation.

1. Turn off the power for the Humminbird control head and all connected equipment.
2. Review your Airmar CHIRP transducer installation guide for installation instructions.
3. Cut the Humminbird transducer extension cable in half, towards the female-socketed connector side. See the illustration *Cutting the Humminbird Transducer Extension Cable in Half*.

**WARNING!** Do NOT cut the cable close to the connector.

4. Remove the cable sleeve so the shielded wires are exposed.
5. Strip back the shield on these wires just enough to expose the wires (approximately less than 1/2 inch), preserving as much of the individual shields as possible.

**Do not remove the shield from any unused wires.**

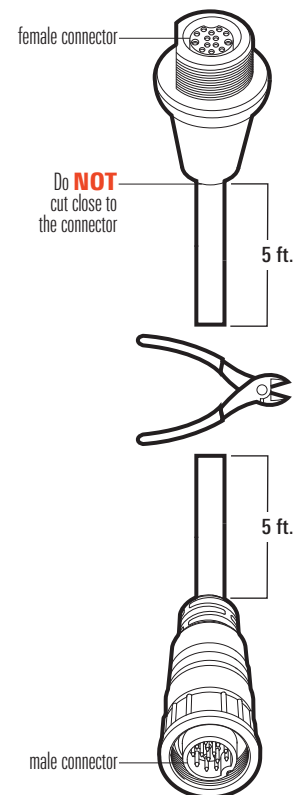
6. Determine if you will install the low, medium, or high frequency wires on the Airmar CHIRP transducer cable.

**Details:** You can connect the Airmar transducer’s low, medium, or high frequency wires to the Humminbird transducer extension cable. You cannot wire more than one frequency to the control head. However, if you have a SOLIX or ONIX control head, you may wire more than one frequency using the Humminbird black box sonar module (see [humminbird.com](http://humminbird.com) for details and purchasing information).

**Example:** If the Airmar transducer has 200 kHz and 50 kHz frequencies, 200 kHz will be the high frequency, and 50 kHz will be the low frequency. You can select 200 kHz or 50 kHz. There will be a medium frequency only if there are three frequencies available on the CHIRP transducer, and the connection is the same as the wiring required for high frequency wires.

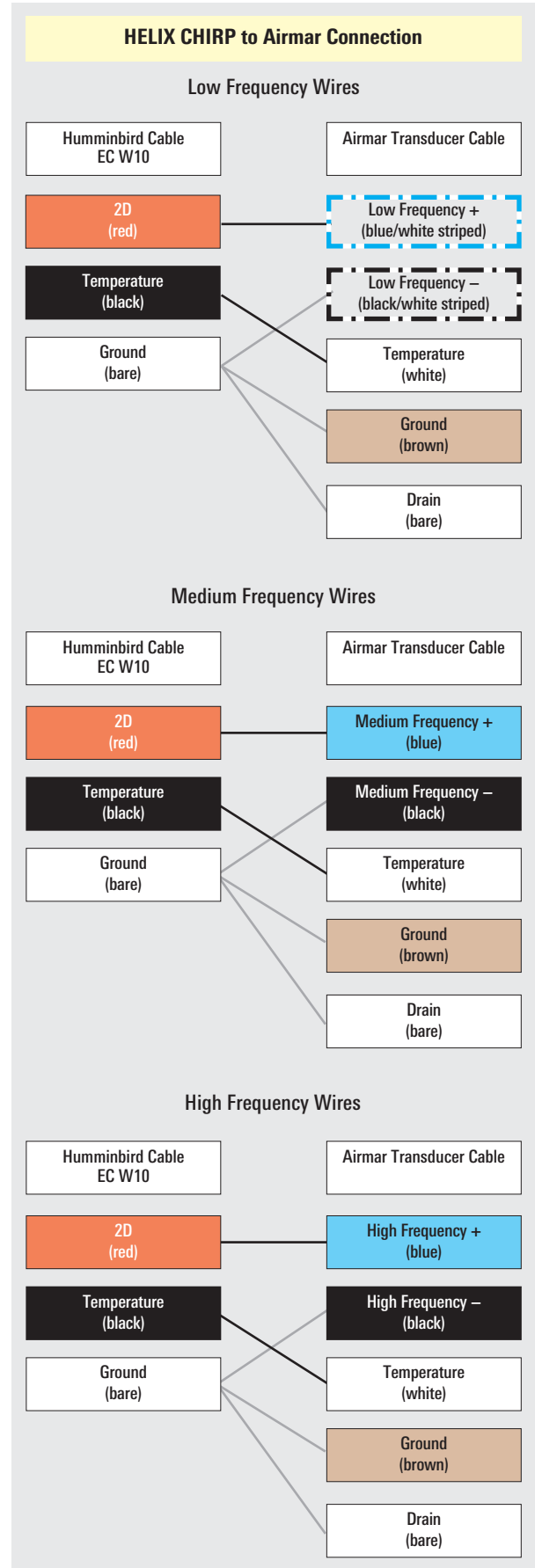
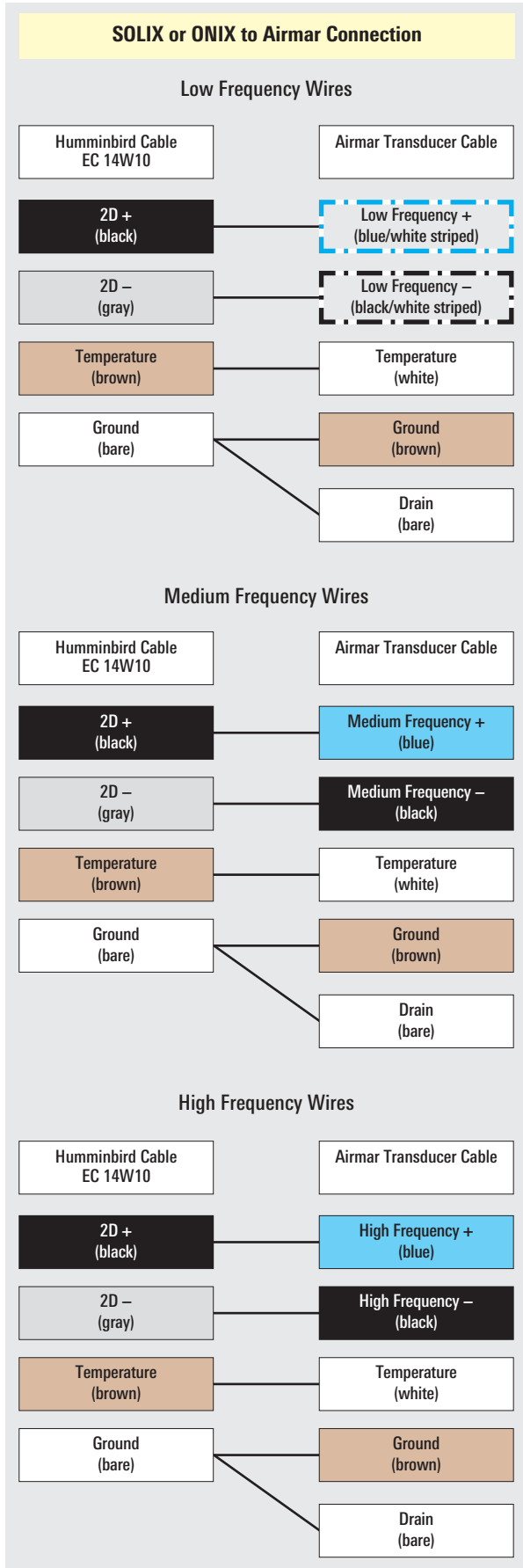
7. On the next page, select the column for your Humminbird model (*SOLIX or ONIX to Airmar Connection* or *HELIX CHIRP to Airmar Connection*) and select the low, medium, or high frequency wire connection chart in that column.
8. Use the installation guide included with the Airmar CHIRP transducer to confirm the wires you will be using. Confirm with the Airmar manual that they match the designations (high frequency +, high frequency –, etc.) in the wiring chart you have selected in step 7.
9. Connect the Humminbird transducer extension cable to the Airmar CHIRP transducer cable using the wiring chart you selected in step 7.

Cutting the Humminbird Transducer Extension Cable in Half




**Airmer CHIRP Connection Guide**

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## 2. Finish the Connection

1. Replace the wire shields where possible.
2. Tape or apply heat-shrink insulation to each connection to prevent shorting the wiring.

 **NOTE:** To protect the wire connections, use a junction or break-out box (separate purchase required).

3. Fold back (or cut off) the extra wires and apply heat shrink insulation.

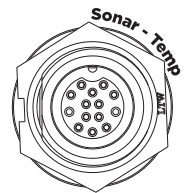
 **NOTE:** Do NOT connect the orange wire on the Airmar CHIRP transducer cable.

## 3. Route the Cable to the Control Head

1. Route the Humminbird transducer extension cable to the Humminbird control head.
2. Connect the cable connector to the Transducer port (HELIX CHIRP) or Sonar-Temp port (SOLIX and ONIX).

 **NOTE:** See your control head installation guide for port connection details.

SOLIX and ONIX Sonar-Temp Port



HELIX 9, 10, 12 CHIRP (Cable Tray)

