



VIBRATION ANALYSIS HARDWARE

Product Manual

MNX10050 / REV C

MODELS:

CC-AXX & JXX



CC-C2X & C3X



CC-V2R & V3R



Field Installable Connector Kits

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CC-AXX, JXX, C2X, C3X, V2X, V3X Series

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Section I

Overview

Introduction

This document contains information on the operation, installation and maintenance of the CC-AXX, CC-JXX, CC-C2X, and CC-C3X Series Connectors. This manual is an overview of the field installable connector assemblies.

Description

These field installable connector kits are designed for field installation of common connectors. Factory installed connectors are generally recommended, but these can be used in cases where cables cannot be removed and a new connector is necessary.

Section II Installation

Wire Preparation

NOTE: If assembling a CC-V2X or CC-V3X Series connector, the Viton seal-tight boot must be fed onto the CB111 or CB119 cabling **BEFORE** crimping or soldering the sockets onto each conductor. See photo below.



1. Strip outer jacket of wire 3/8".
2. Cut off shield and drain wire (for twisted shielded pair wires only).
3. Strip the insulation of conductor wires 3/16".
4. Crimp or solder sockets to each wire based on instructions below.
5. Place socket on wire so wire can be seen through hole.



Soldering

1. Place drop of flux through hole and allow solder to enter through hole.

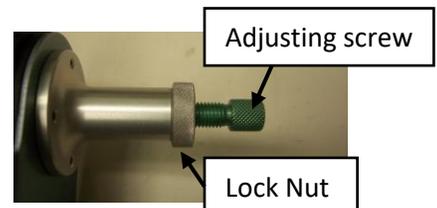
Note: Clean any solder that remains on outside of socket.



Crimping

Preparing Crimper

1. Remove pin from top of wheel of DEUTSCH HDT-48-00, Raise selector knob and rotate until arrow is aligned with wire size to be crimped.
2. Insert socket into device, long end down, loosen lock nut and turn adjusting screw until end of socket is flush with top of indenter, then tighten lock nut without turning the adjusting screw.



Crimping Wires

1. Insert socket into crimping device.
2. Squeeze handle fully then release and remove socket.



Connector assembly

Table II.I

| Cable | 2 Pin | 3 Pin | 4 Pin |
|-------|-------|-------|-------|
| Red | A | A | A |
| Black | B | B | D |
| White | N/A | C | C |
| Green | N/A | N/A | B |

CC-AXX & JXX

1. Feed strain relief and knurled ring on cable.
2. Insert and press sockets into specified hole, see table II.I
3. Slide the knurled ring over the threaded section of the connector plug.
4. Thread the strain relief onto the connector plug.

With Epoxy Injection Vent Holes

1. Place the assembled connector body horizontally with the epoxy injection holes level and facing upward.
2. Using the syringe fill the strain relief body with epoxy until the epoxy begins to extrude from the other small hole.
3. Allow to dry in the horizontal position. Can reduce dry time by adding heat lamp set on low for approximately 20 minutes.

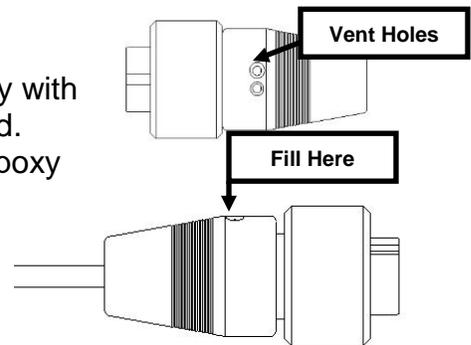


Figure 1 – CC-AXX & JXX with Injection Vent Holes

Without Epoxy Injection Vent Holes

1. Place the assembled connector body vertically with the open end of the connector facing up.
2. Fill the strain relief body with epoxy up to the top of the strain relief.
3. Allow the epoxy to dry. Drying time can be reduced by adding a heat lamp set on low for approximately 20 minutes.



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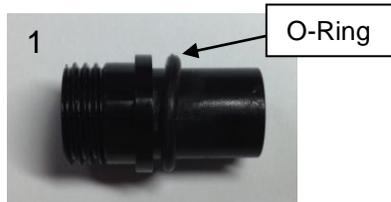


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Figure 2 – CC-AXX & JXX without Injection Vent Holes

CC-C2X & C3X

1. Slide o-ring over connector insert and press socket into specified holes, see table II.I



2. Slide locking nut over connector insert.



3. Insert twisted shielded pair wire through backshell and silicone shell.
4. Assemble as shown:

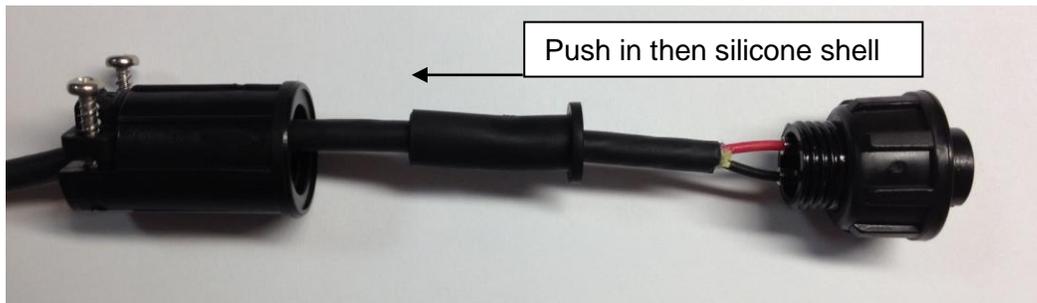


Figure 3 – CC-C2X & C3X Assembly

5. Slide cable strain relief up cable and into connector shell. Fill shell ½ full with silicone RTV. Slide shell down to threaded connector. Insert and thread into place.
6. Screw the cable clamp into place over the cable and cable strain relief.

CC-V2X & CC-V3X Assembly Instructions

1. Feed the backshell onto the cable toward the Viton seal-tight boot, as shown in Figure 4 below.
2. Press the soldered sockets assembled on the end of the cable into the connector insert using the following wiring chart:

| Cable | V2X | V3X |
|-------|-----|-----|
| Red | A | A |
| Black | B | B |
| White | N/A | C |
| Green | N/A | N/A |

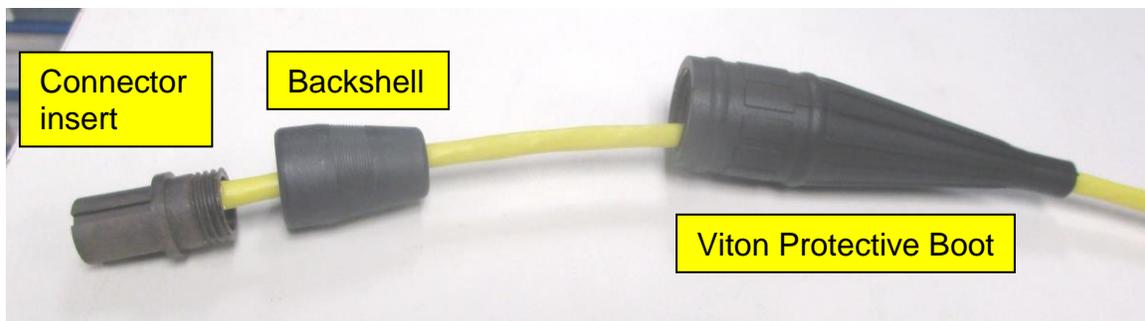


Figure 4

3. Thread the backshell onto the connector insert as shown in Figure 5.



Figure 5

4. Position the now assembled connector body vertically with the open end of the connector facing up, as seen in Figure 6 below.
5. Fill the strain relief backshell with epoxy to the top of the backshell
6. Allow the epoxy to dry. Drying time can be reduced by adding a heat lamp set on low for approximately 20 minutes.

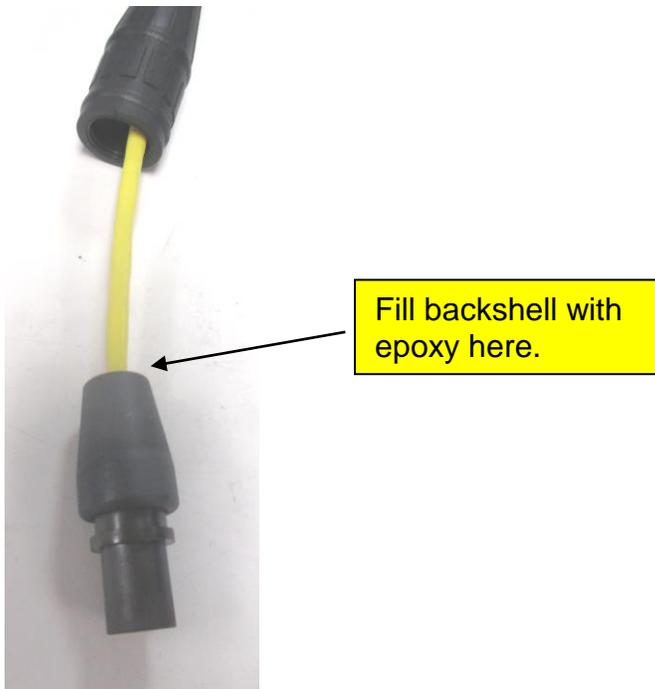


Figure 6

7. Once the epoxy has fully cured, slide the Viton boot over the connector insert and backshell as seen below in Figure 7.



Figure 7

Section III Operation

Assembled connectors, after adhesive cure, can be attached to sensors as normal.

Section IV Maintenance

General

There are no customer replaceable parts on the Connector Kits. The product should provide trouble-free continuous service under normal operating conditions.

Warranty

If any CTC vibration analysis hardware product should ever fail, we will repair or replace it at no charge.

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