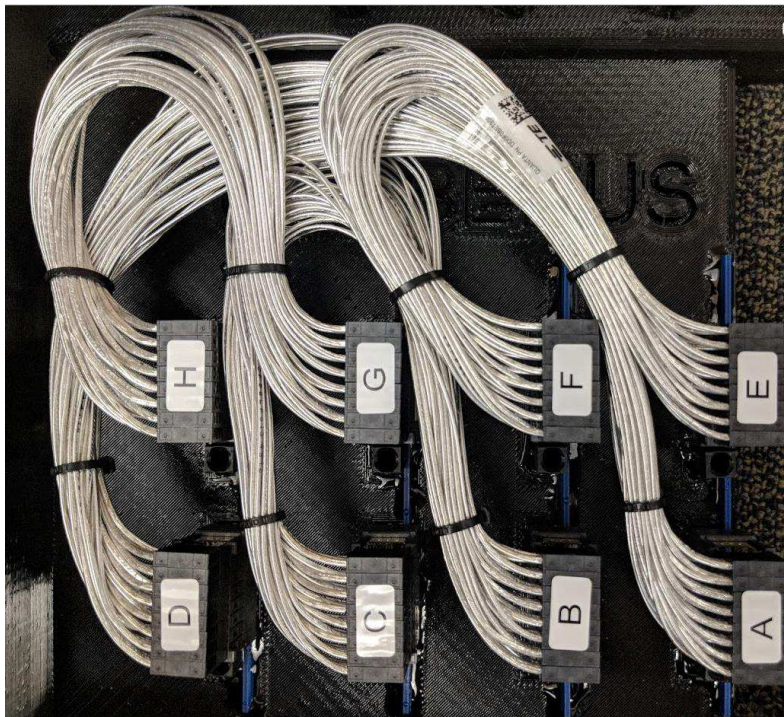


## 1. INTRODUCTION

This specification covers the requirements for application of the 3.9-mm 100-ohm STRADA Whisper Cabled Harness system part number 2335000-1. The cable system interfaces with 8 3.9-mm 100-ohm STRADA Whisper connectors. Differential pairs are arranged pair in-row (PiR). Harness configuration is shown given in Figure 1.

**2335000-1**



*Figure 1*

For PiR connectors, the header alignment bosses fit into the receptacle alignment slots, which have a guide feature. Basic terms and features of this product are provided in Application Specification 114-130010.

## 2. REFERENCE MATERIAL

### 2.1. Revision Summary

Revision Title	Date	Summary
REV A	30 MAY 2018	Original Release

### 2.2. Customer Assistance

Visit [www.te.com](http://www.te.com).

### 2.3. Drawings

A customer drawing for 2335000-1 is available from [www.te.com](http://www.te.com). Information contained in the customer drawing takes priority.

### 2.4. Specifications

Application Specifications 114-32029 and 114-130010 provide application details for the STRADA Whisper Connector System.

Product Specification 108-130001 provides expected product performance and test results.

All specifications referred to in this document can be found at [www.te.com](http://www.te.com).

## 3. REQUIREMENTS

### 3.1. Storage

#### A. Environment

The product should be stored in a cool area with a low relative humidity. The storage temperature for the product should be between -5°C and 70°C.

#### B. Shelf Life

The product should remain in the shipping containers until ready for use to prevent deformation to components. The product should be used on a first in, first out basis to avoid storage contamination that could adversely affect performance.

Connectors that are removed from the shipping container (tube or tray), but not used, must be carefully placed back into the original container as soon as possible.

#### C. Chemical Exposure

Refer to Application Specification 114-130010

### 3.2. Material

The housings are molded of high-temperature, UL94V-0 rated thermoplastic. The contacts are made of copper alloy and plated with a nickel underplate. The contact interface area is also plated with precious metal. Refer to the specific customer drawing for details.

### 3.3. Mating

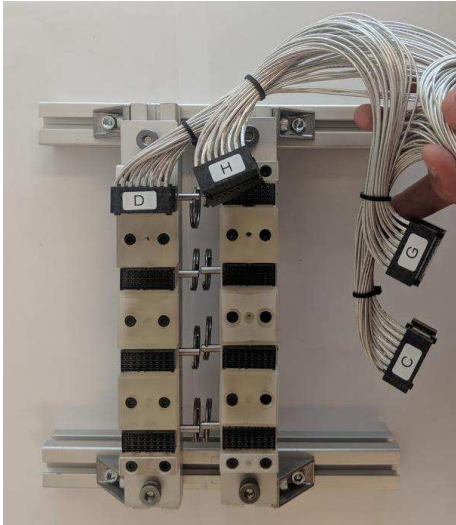
#### A. Alignment

Proper alignment is essential to ensure full engagement of mating connectors and to ensure that contacts are not bent or otherwise damaged during mating and unmating. Utilize the connector alignment features on the header housing and receptacle housing to properly locate the connector. For tolerance limitations, see section 3.3 of Application Specification 114-130010 (tolerances apply when connectors are free-floating and allowed to gather). During the mating process, hold the connector by the header housing. Do not hold or use the cable while mating the connector.

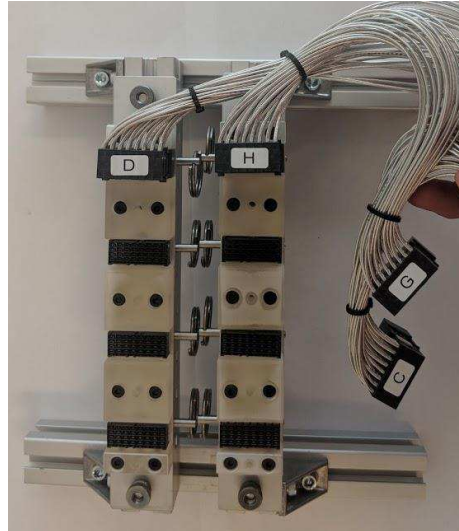
#### B. Sequence

The preferred mating sequence for the harnesses is: D→H→C→G→B→F→A→E. Once all connectors are aligned and mated with their corresponding receptacles, each connector should be checked to ensure that it is completely mated with the receptacle. Images of mating sequence are shown below in Figure 2 and Figure 3.

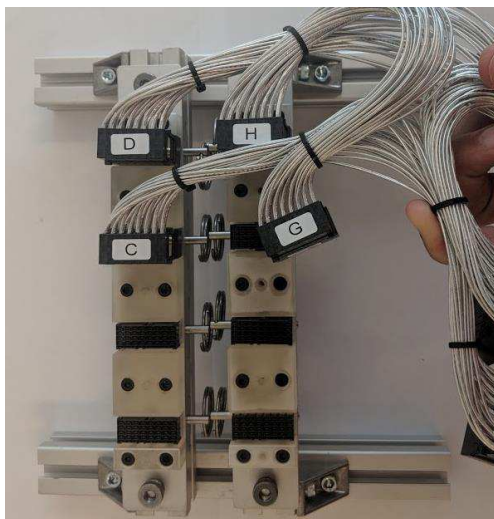
STEP 1



STEP 2



STEP 3



STEP 4

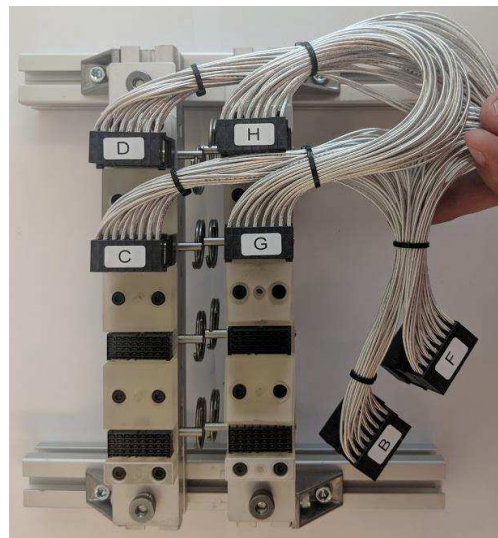
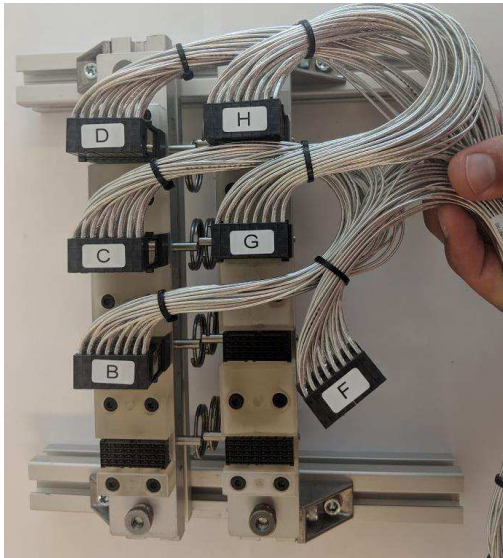


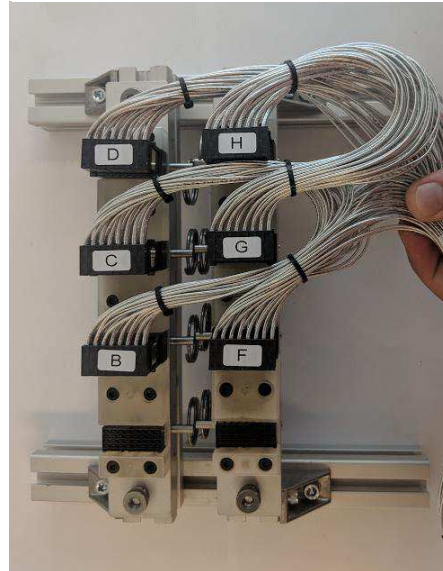
Figure 2



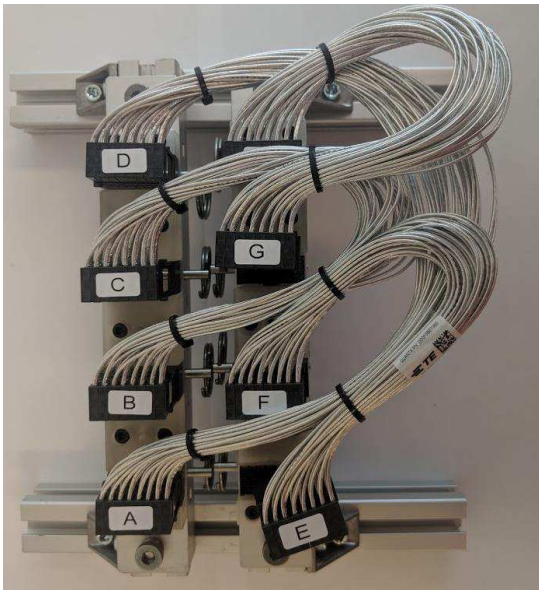
STEP 5



STEP 6



STEP 7



STEP 8

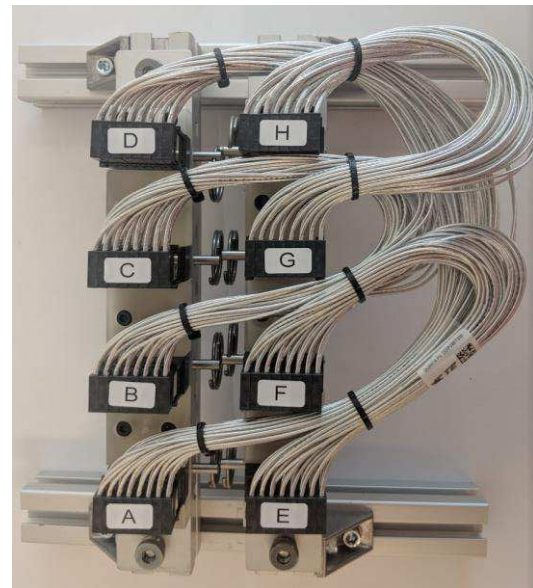


Figure 3

### 3.4. Unmating

#### A. Connector

All mating conditions apply to unmating. While unmating hold the connector by the header housing. Do not utilize the cables to remove the connector. The preferred sequence for unmating is E→A→F→B→G→C→H→D.

### **3.5. Repair and Rework**

Damaged or defective connectors must not be used. STRADA Whisper Cable assemblies are not field repairable and must be returned to TE for repair or replacement.

### **4. QUALIFICATION**

STRADA Whisper Connector Systems are Recognized by Underwriters Laboratories Inc. (UL) in File E28476, Vol.85, section 4.