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Description:

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HD CONN MATING INSTRUCT

Signature: *Karla Caraballo* CHKR

Signature: Germán Martínez 1/16/2020 ENGR

Signature: *Stephen Thomas* 1-15-20 MFG

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HD CONNECTOR MATING INSTRUCTIONS

Purpose

This document illustrates the proper method of connecting HD cable connections to assure the proper mating of the connectors.

These instructions apply to HD8 and HD12 Adapter Cable Connections for various cables within the DUC, SFX, and CATVS product line, as well as general TV systems that are DUC ready and use adapter cables such as the HD 312.

HD adapter cables will generally fit tightly into their mating receptacles. The following instructions will help to ensure that the connector is fully seated. If not fully seated, the system may experience intermittent or no camera communication. Improper connector mating can also cause arcing in the camera and light power connections eventually damaging the connector pins.

HD8 Connector assembly instructions

1. Visually inspect both the camera bulkhead connector and adapter connector for bent or corroded pins/sockets. If necessary, use a contact cleaner such as DeoxIT® or similar product to clean the contacts. NOTE: Bent pins can possibly be CAREFULLY straightened, however they will be stressed and may develop stress cracks eventually causing the pin to fail.
2. Match up the alignment tab/key of the connector and the receptacle rotationally then carefully insert the adapter cable into the mating receptacle. Special care should be taken to keep the connector and receptacle parallel to each other (aligned straight) otherwise the pins can be damaged and bent. Tighten the nut finger-tight only, do not use pliers. See Figures 1 and 1a.

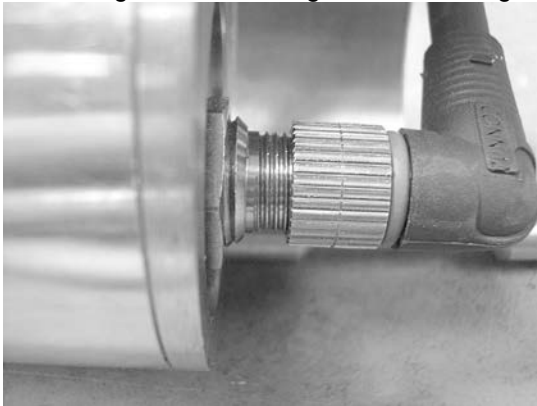


Figure 1- HD300 and HD300-1

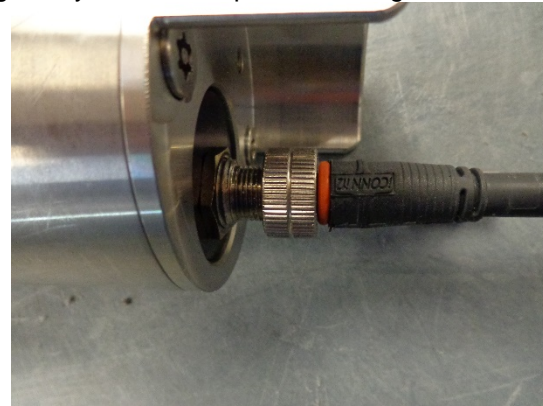


Figure 1a- HD300-2 and HD380 (Shown without Sonde for clarity)

3. After the nut has become tight, push in on the connector. The O-ring will compress somewhat and the connector's "insert" will seat further into the camera bulkhead connector. See Figures 2 and 2a.



Figure 2- HD300 and HD300-1

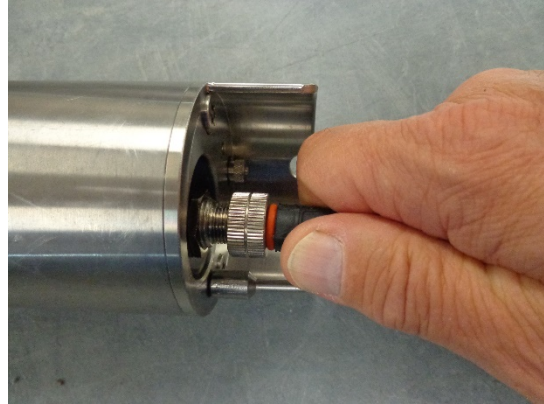


Figure 2a- HD300-2 and HD380 (Shown without Sonde for clarity)

4. Continue alternating between pressing in and tightening the nut until the connector is fully seated. As shown in Figures 3 and 3a, approximately 1-2 threads will be visible when seated.

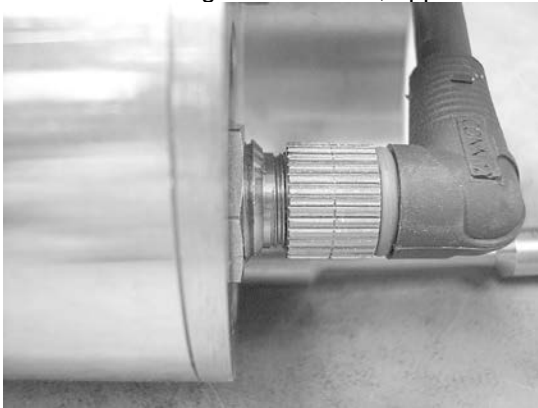


Figure 3- HD300 and HD300-1

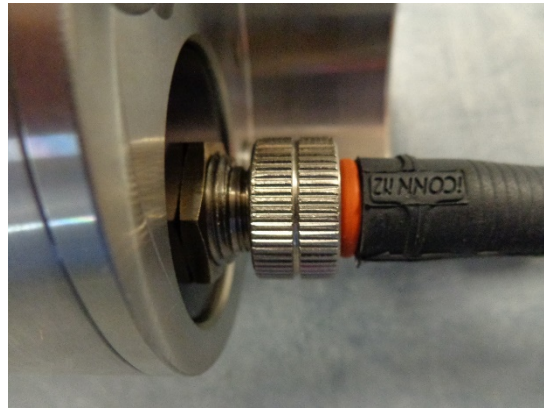


Figure 3a- HD300-2 and HD380 (Shown without Sonde for clarity)

HD CONNECTOR MATING INSTRUCTIONS

HD12 Connector Assembly Instructions

1. The same process of cleaning, aligning, pressing, and tightening (see above) should be followed when attaching an HD12 connector to its mating receptacle. Tighten the nut finger-tight only, do not use pliers. When fully seated, the adapter cable ring and the splice chamber connector should be nearly touching, as shown in Figure 4.

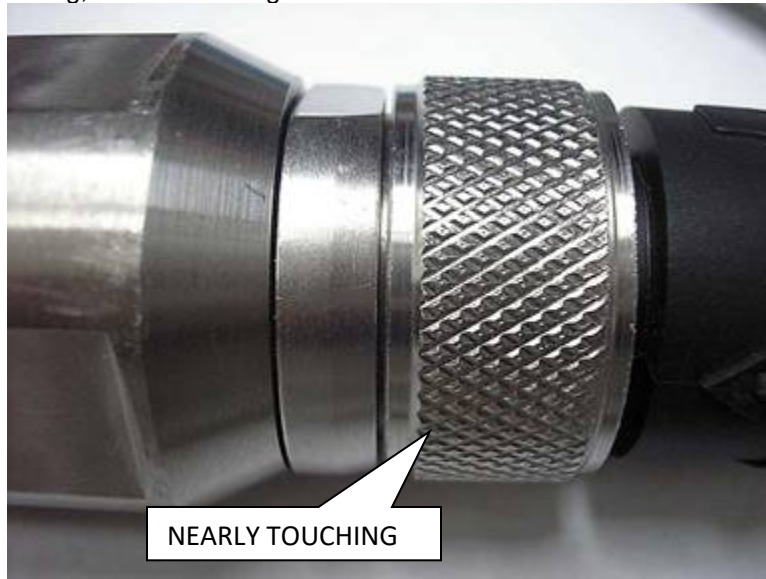


Figure 2

2. For HD12 connectors other than the splice chamber, the space between the adapter cable ring and the adapter overmold should be as shown in Figure 5, and there should be no movement or play in this area (indicates that the two connector faces are flat against each other).

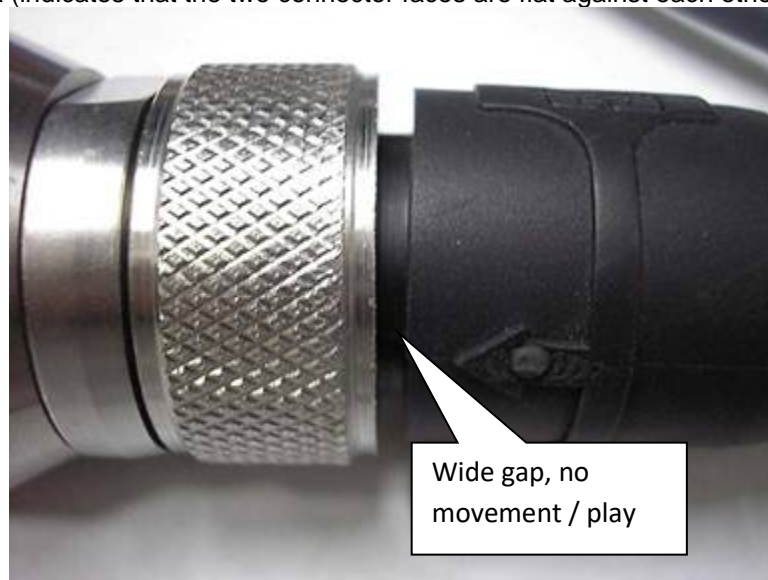


Figure 3