

AMPHENOL INDUSTRIAL OPERATIONS
HELIOS H4



Assembly Instructions for the Helios H4 High Performance Solar Connector by Amphenol Industrial



PV-09050X-F – FEMALE CABLE CONNECTOR



PV-09050X-M – MALE CABLE CONNECTOR

Helios H4 PV-09050X-F Component Parts Identified

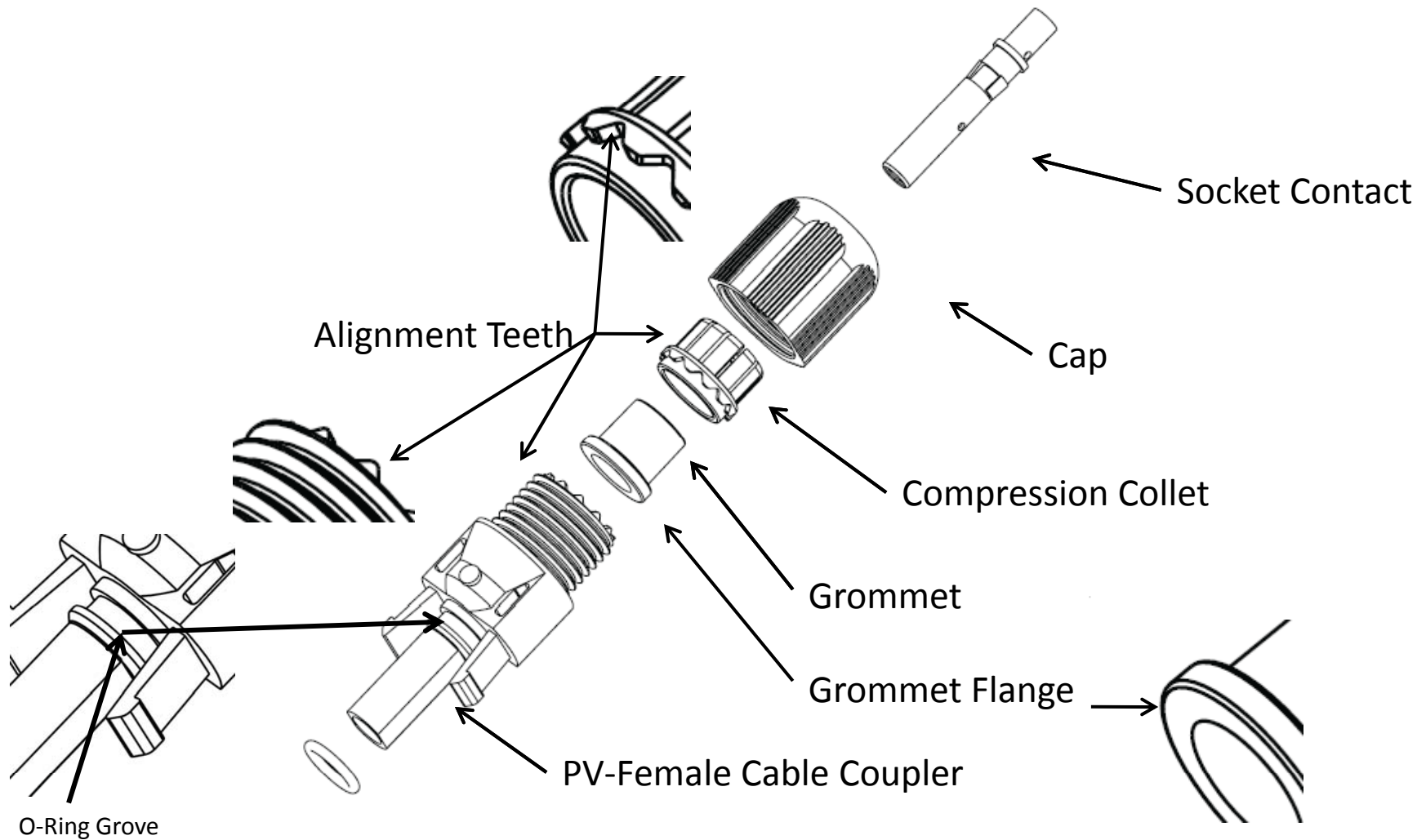


Figure 1 (female)

Helios H4 PV-09050X-M Component Parts Identified

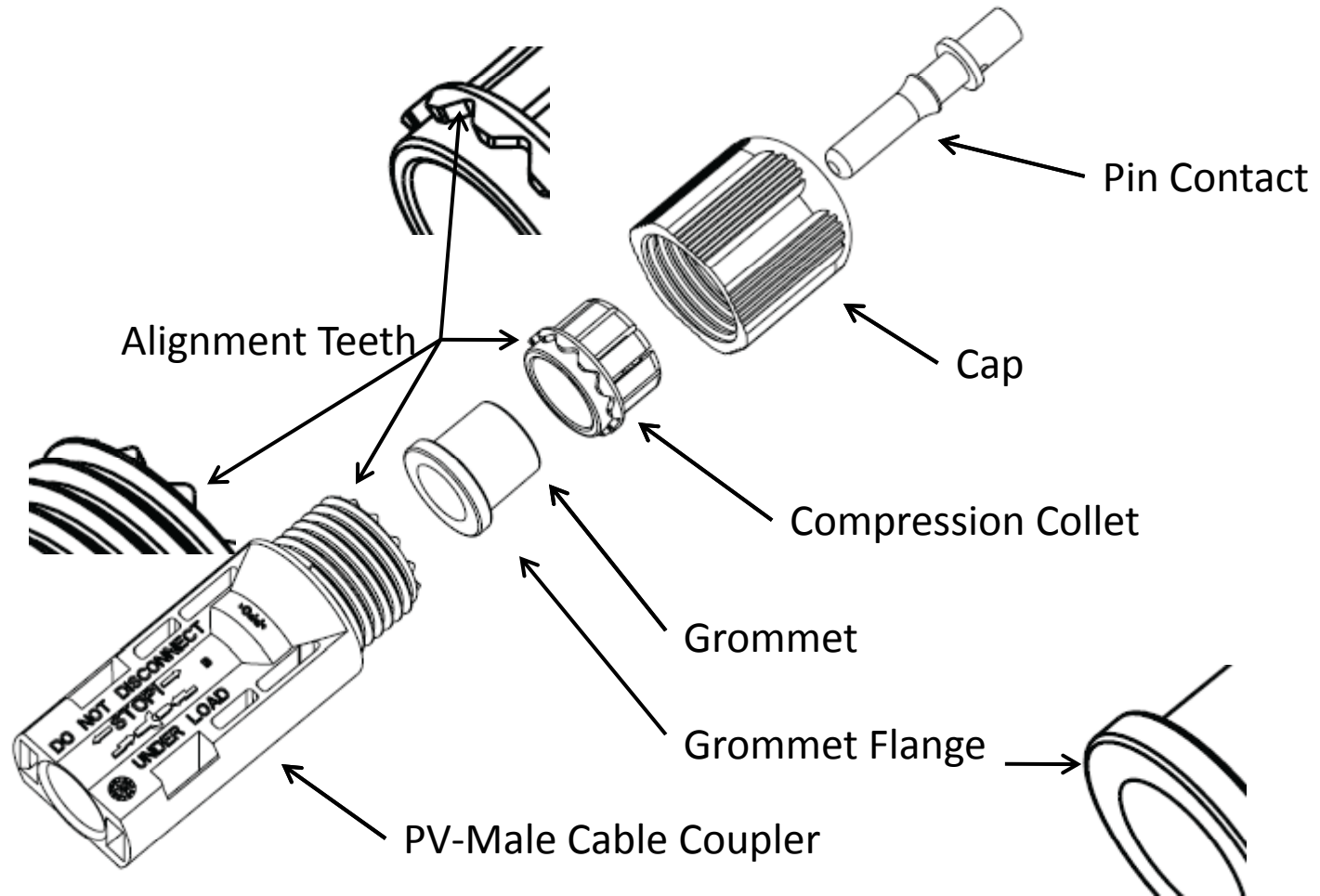


Figure 1. (male)

Assembly of Helios H4 PV-09050X-M and PV-09050X-F Components

Helios H4 components come pre-assembled. See Figure 1. for component identification and assembly orientation.

1. Strip cable .276 inches - 7mm being careful not to nick conductors using Amphenol Strip tool PV-670509-000 suitable for cables of 2,5SQMM, 4SQMM and 6SQMM. See Figure 2.

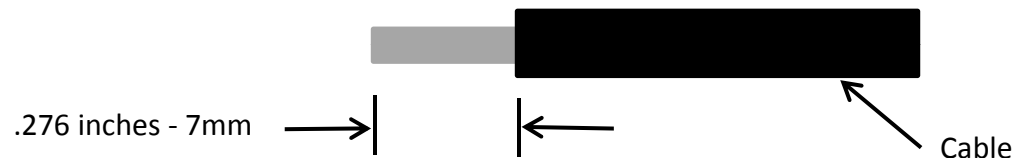


Figure 2.

2. Insert striped cable into contact barrel insuring all conductor strands are captured in the contact barrel and the conductor is visible in the contact barrel observation hole. See Figure 3.

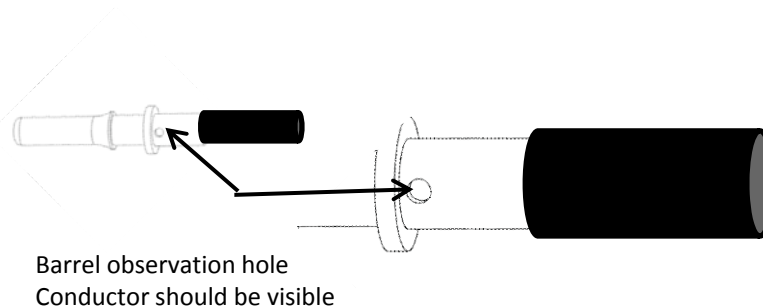


Figure 3.

Assembly of Helios H4 PV-09050X-M and PV-09050X-F Components

3. Crimp contact barrel and conductor using specified Amphenol crimp tool **PV-670508-000** suitable for cables of 2,5SQMM, 4SQMM and 6SQMM.
4. Insert contact cable assembly into back connector assembly until seated.
An audible click should be heard when the contact cable assembly is seated. See Figure 4.

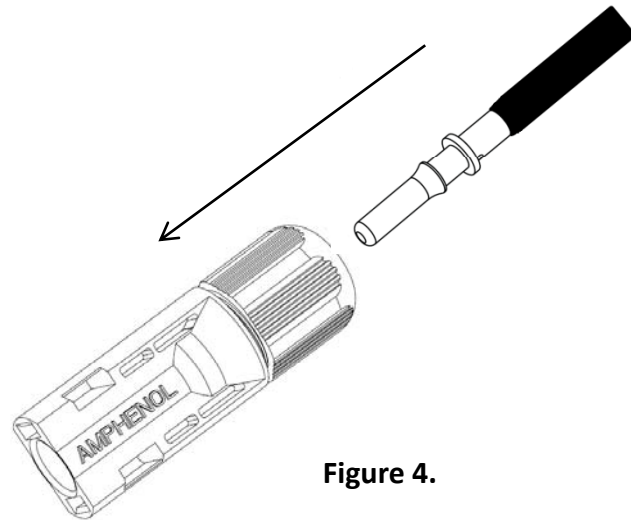


Figure 4.

5. Torque cap to 10 to 12 inch pounds by hand or using wrench tool **PV-670803-000**



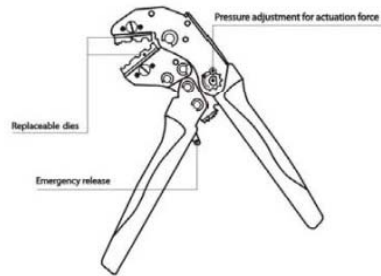
Assembly Tools for Helios H4 Connectors



CRIMP TOOL

for HELIOS H4 Solar Connectors
2.5mm²(AWG14) 4.0mm²(AWG12) 6.00mm²(AWG10)

Part No.	Description
PV-670508-000	Crimp tool complete
PV-670508-001	Replacement die



Instructions

- Strip cable with suitable cable stripper, i.e. Amphenol part number PV-670509-000. Strip length 7mm (9/32").
- Insert stripped cable end fully into crimp side of contact. Make sure all strands are captured in the crimp barrel. Cable conductor must be visible in control bore.
- Insert cable/contact assembly in corresponding crimp cavity. Contact collar must rest on crimp die, cable must remain fully inserted in contact.
- Close crimp tool by swiftly squeezing the handles completely.
- Release handles, crimp is completed.

Care, maintenance

This crimp tool is a precision instrument specifically designed to crimp the above listed Amphenol contacts. Handle it carefully, do not drop or use for any unintended purpose. Keep crimper lightly oiled with a light machine oil. Keep crimp cavities clean and free of debris, wire clippings etc. Crimp tool and crimp dies are prone to wear. Check quality of crimp periodically. Tool and die wear can be compensated by removing the lock screw and turning the adjuster counter-clockwise.

www.amphenol-industrial.com



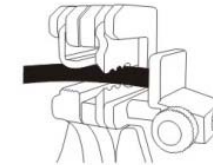
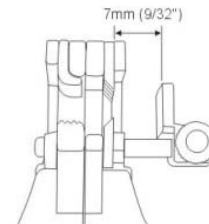
WIRE STRIPPING TOOL

Part No.	Description
PV-670509-000	Strip tool complete
PV-670509-001	Replacement blade

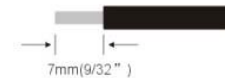
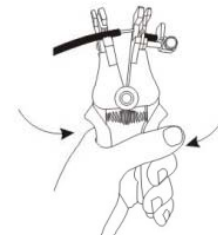
Precision strip tool, specifically designed to strip photovoltaic cable with heavy insulating jacket, to be used on 2.5mm²/AWG14, 4.0mm²/AWG12, 6.0mm²/10 cable.

Instructions:

- Set cable stop to 7mm (9/32") strip length.
- Insert cable and align with opening according to cable size. Make sure cable rests against cable stop.



- Squeeze handles in single, swift motion.
- Release handles, strip operation completed.
- Verify strip length and adjust cable stop if needed.



www.amphenol-industrial.com