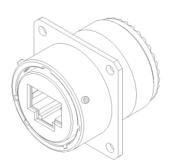


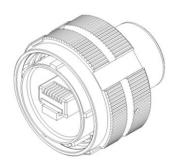
AB Connectors MIL-DTL-26482 and MIL-DTL-38999 Derived RJ/USB Series Connectors

Wiring and Assembly Instructions









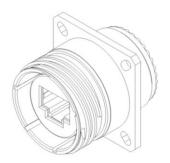






Table of contents

1	Product Introduction	3
2 2.1	Cable termination Termination of category 6/6a cable to 8P8C (RJ45) shielded modular plug	3
3 3.1	Tooling Category 6/6a connector crimp tooling	3
4 4.1 4.2	Connector assembly MIL-DTL-26482 and MIL-DTL-38999 derived 8P8C (RJ45) plugs MIL-DTL-38999 derived USB cabled plugs	4 5



1 Product Introduction

This high speed range of RJ45 and USB connectors are derived from MIL-DTL-26482 and MIL-DTL-38999 specifications. The range provides 360° EMC and mechanical protection and meets the requirements of high speed data applications where environmental protection is required.

2 <u>Cable Termination</u>

2.1 Termination of category 6 cable to 8P8C (RJ45) shielded modular plug

The 8P8C (8 position, 8 conductor) modular plug that is required when terminating category 6 cable in conjunction with MIL-DTL-26482 and MIL-DTL-38999 derived connectors is a Bel Stewart Shielded 39200 Series connector.

Termination and assembly instructions can be found on the manufacturers' website at the following address:

http://www.belfuse.com/Data/UploadedFiles/MN390009.pdf

Note: Wiring example illustrated in the above assembly instructions is per EIA/TIA-568-B standard.

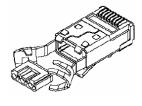
3 <u>Tooling</u>

3.1 Category 6 and 6a connector crimp tooling

Use Bel Stewart 2980075-01 crimp tool (AB part number M3800915). Note that tool is suitable for use when cable OD is greater than 6mm.

SS-39200-010/011 shielded 8P8C modular plug and load bar supplied with connector

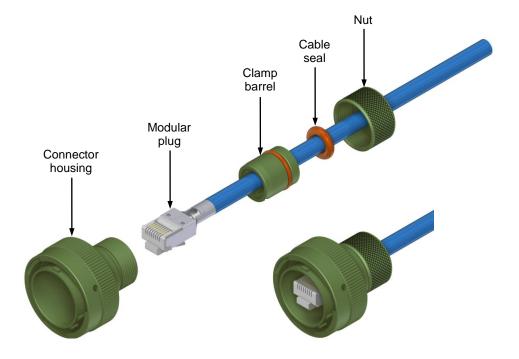






4 <u>Connector assembly</u>

- 4.1 MIL-DTL-26482 and MIL-DTL-38999 derived 8P8C (RJ45) plugs
- a. Slide the nut, cable seal and clamp barrel along the cable insulation as illustrated.
- b. Terminate the cable as described in section 2.
- c. Insert the modular plug into the connector housing, press home until the modular plug shield butts against the connector housing. Note* The modular plug latch will not 'click' into place.
- d. Slide the clamp barrel back down the cable and press home into the rear of the connector housing, ensure that the clamp barrel presses against the rear of the modular plug.
- e. Slide the cable seal into position at the rear of the clamp barrel.
- f. Slide the nut along the cable and securely attach to the rear of the connector housing. Tighten until the nut reaches a firm mechanical stop.



Note: Above images illustrate components used in the MIL-DTL-26482 derivative. With the exception of the connector housing, the same components and assembly steps are used for the MIL-DTL-38999 derivative.



4.2 MIL-DTL-38999 derived USB cabled plugs

- a. Slide the nut and washer along the cable assembly as illustrated.
- b. Ensure that the O ring is seated in the position shown and insert the cable assembly into the connector housing, press home until the USB connector moulding seats against the inside face of the connector housing.
- c. Slide the washer into position at the rear of the USB connector moulding, follow with the nut. Screw the nut onto the rear of the connector housing, tighten until the nut reaches a firm mechanical stop.

