

Customer Use Guide

Eclipta Connector S50867, V2

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Reference Documents:

Eclipta Brochure:

- Eclipta solution options and part number configuration
- Connector Performance Specifications
- Overall Assembly Dimensions

Customer Test Report

Design Files (available on request - contact Smiths Interconnect to request):

- Assembly .STEP files for use in CAD drawings and designing housings/panels to incorporate the Eclipta interconnect solution most suitable for your product.
- PCB Customization Tools:
 - PCB Design Guideline Drawings (.pdf and .dxf formats available)
 - PCB 3D models for use in customizing PCBs for your application (.STEP format available)

Connector Assembly Instructions

Field-Service Assembly Instructions

Intended Use:

Sterilization Details:

Connectors must be sterilized as detailed below. Any deviation from these specifications must be tested to verify performance level.

Connectors shall not be sterilized in the mated condition.

Combinations of Sterilization methods were not tested outside of the details of the test report and should be avoided to maintain proper performance.

Disposable Receptacle Only:

2 cycles of EtO Sterilization (100% EtO)

Reusable Plug, Reusable Receptacle, and Disposable Plug:

20 cycles of EtO Sterilization (100% EtO)

20 cycles of Sterrad® 100NX Sterilization:

Cycle Type: Standard

Temperature: Ambient

Cycle Duration: 47 minutes

Dwell Time/Cool Down between cycles: 30 minutes ± 5 minutes

20 cycles of Autoclave Sterilization:

Sterilizer Type: Gravity

Temperature: 135°C ±1°C

Full Cycle Duration: 10 minutes

Time between cycles: 30 minutes

At the end of the 10 minute sterilization stage, there is a cool-down period that must implement a drying stage. The autoclave may enable post-vacuum and heaters to dry the parts. At the completion of an autoclave sterilization cycle and before use, parts must be fully dry. All use must take place no less than three hours after Autoclave Sterilization.

Disinfection Details:

Connectors must be disinfected as detailed below. Any deviation from these specifications must be tested to verify performance level.

Combinations of disinfectants were not tested and should be avoided to maintain proper performance.

All Connectors:

Connectors can be wiped down with a cloth dampened with the following disinfectants:

- a. *Green Soap Tincture:*
"Green Works" manufactured by The Clorox Company
- b. *Cidex:*
"MetriCide sterilizing & disinfecting solution" manufactured by Metrex Research
- c. *Clorox:*
"Clorox Disinfecting Wipes" manufactured by The Clorox Company
- d. *Bleach (10%):*
The sodium hypochlorite is manufactured by Fisher.

The wiping process shall not be fully wetting but shall lightly coat the external plastic surfaces of the connector with the designated disinfectant chemical.

General Notes for Safe Connector Utilization:

- a. **Disposable side of the connection is not finger-proof nor IP rated; as such, all means must be taken to protect users/patients from harm.**
 - i. **It is strongly recommended to use the reusable connectors to supply power.**
- b. To ensure secure connection, connectors must be mated until audible click is heard to confirm connectors are properly latched.
- c. Connectors must not be mated during storage or sterilization.
- d. Connectors have not been proven to be capable of connection under power; contact Smiths Interconnect for more details.
- e. Saline/Liquid Ingression may compromise electrical contacts and overall performance. Care shall be taken to avoid this occurrence.
- f. Test data utilizes standard PCB design only. PCBs must meet requirements of recommended design otherwise performance may be affected.