

Coded Note Number: **C2910**

Revision: **C001**

Date: **January 24, 2020**

Title: **FIBER OPTIC CONNECTOR CLEANLINESS AND INSPECTION**

1. This Coded Note provides requirements for inspection of fiber optic end connections. Refer to Department Of Defense Standard Practice MIL-STD-2042-6 for cleaning methods and safety guidelines.
2. All fiber optic end connections (piece parts and connectors installed within electrical equipment) shall be inspected to meet the criteria for “Clean and Undamaged” as stated below, prior to connection at the supplier’s facility (for assembled equipment), or prior to packaging for shipment (for piece parts).
3. Inspection shall be performed while viewing through a 400x handheld optical microscope or Fiber Optic Video Inspection System (FOVIS).
4. Fiber optic end connections are “Clean and Undamaged” when there are no contaminants or damage visible on the optical fiber’s core, cladding material and the entire end face of the single fiber, single ferrule connector, or termini.
5. Removal of contaminants present on an end face at initial inspection is permissible using established cleaning methods.
6. A fiber, single ferrule connector, or termini that is damaged or has contaminants that are unable to be removed, is unacceptable. A fiber optic end connection that is determined “unacceptable” during inspection requires repair or replacement of the single fiber, single ferrule connector, or termini.

Definitions

Contaminant – Any visible substance, liquid or solid, that has deposited on the end face surface of the single fiber, single ferrule connector, or termini.

Damage – Any visible defect on the end face surface of the single fiber, single ferrule connector, or termini is considered damaged.

Revision History Table		
Rev	Description	Revision Date
C001	Initial Issue	01/24/2020