



PREPARED BY INFORMATION SYSTEMS DEPARTMENT

GUAM POWER AUTHORITY
POST OFFICE BOX 2977
AGANA, GUAM 96910

TRANSMISSION AND DISTRIBUTION

SPECIFICATION NO. E-015

FOR

CONNECTORS:

600 VOLT SEALED

INSULATED UNDERGROUND

EFFECTIVE DATE: OCT 03 1984

ISSUED: *Secun*

APPROVED: *Alcalá*



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CONNECTORS: 600 VOLT SEALED INSULATED UNDERGROUND

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1.0 SCOPE:

This specification covers GPA requirements for sealed insulated underground connector systems rated 600 volts.

2.0 CONFORMANCE TO SPECIFICATIONS REQUIREMENTS:

The connectors shall meet the following requirements unless otherwise specified in this specification.

2.1 Applicable Documents

2.1.1 ANSI C119.1, Sealed Insulated Underground Connector Systems Rated 600 volts.

2.1.2 IPCEA Pub.No. S-66-524 NEMA Publ.No.WC7, Crosslinked-thermosetting-polyethylene-insulated Wire and Cable for Transmission and Distribution of Electric Energy (reference).

2.2 Acceptance Requirements

2.2.1 Connectors purchased under this specification will be accepted under the requirements specified herein.

2.3 Deviation and Nonconformance Requirements

2.3.1 Deviations from this specification must be approved by the GPA Engineering Department and acknowledged on the Purchase Order.

2.3.2 Deviations from this specification or changes in the material, design or construction after receipt of order must be approved by the GPA Engineering Department and acknowledged by a Purchase Order Amendment.

3.0 DESIGN:

3.1 Interchangeability

The connectors shall be interchangeable with existing connectors and accessories in GPA's system. The presently used connectors and accessories including their Manufacturer are shown in Figure 1.

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4.0 MANUFACTURING:**4.1 Manufacturer's Identification Marks**

Each connector shall be permanently and legibly identified with the following information:

- a) Manufacturer's identification
(including catalog number)
- b) Maximum voltage rating
- c) Date code

5.0 QUALITY CONTROL:**5.1 Suppliers Quality Control Program**

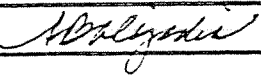
The Supplier shall have a quality program to assure compliance with the requirements of this specification. The program shall be documented and available for GPA review if requested.

5.2 Certified Raw Materials

All alloys and insulating materials used in the manufacturing of connectors shall be certified as follows:

- a) Alloys shall be certified in terms of:
 - 1) Alloy Contents.
 - 2) Percentage of Conductivity.
 - 3) Minimum Yield Strength.
- b) Insulating materials shall be certified in terms of:

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- 1) Chemical contents, specification and origin of specification
- 2) Physical aging and electrical values properties including volume and surface resistivity, elongation and shear modulus, e.g. IPCEA Pub.No. S-66-524, para. 3.6.
- 3) Abrasion resistance and additional accelerated aging and/or contaminated environment test data
- 4) Thickness, including minimum point and minimum average

All records of certified materials shall be available to GPA Engineering Department and furnished when requested.

6.0 TESTS

6.1 Performance and Testing

The connector shall meet the performance and testing requirements established by ANSI C119.1.

6.2 Certified Test Results

Certified test results of tests conducted as required by and in compliance with ANSI C119.1 shall be furnished to GPA.

7.0 PREPARATION FOR SHIPMENT:

7.1 Handling, Storage and Delivery

The Supplier shall have adequate work and inspection instructions for handling, storage, preservation, packaging and shipping to protect the quality of connectors and prevent damage, loss, deterioration and substitution of products.

- ### 7.2 Packaging of connectors shall include the means for accommodating and maintaining critical environments within packages, e.g., moisture content levels, ultra-violet light for materials where ultra violet light has been determined to cause any harm to insulating materials.

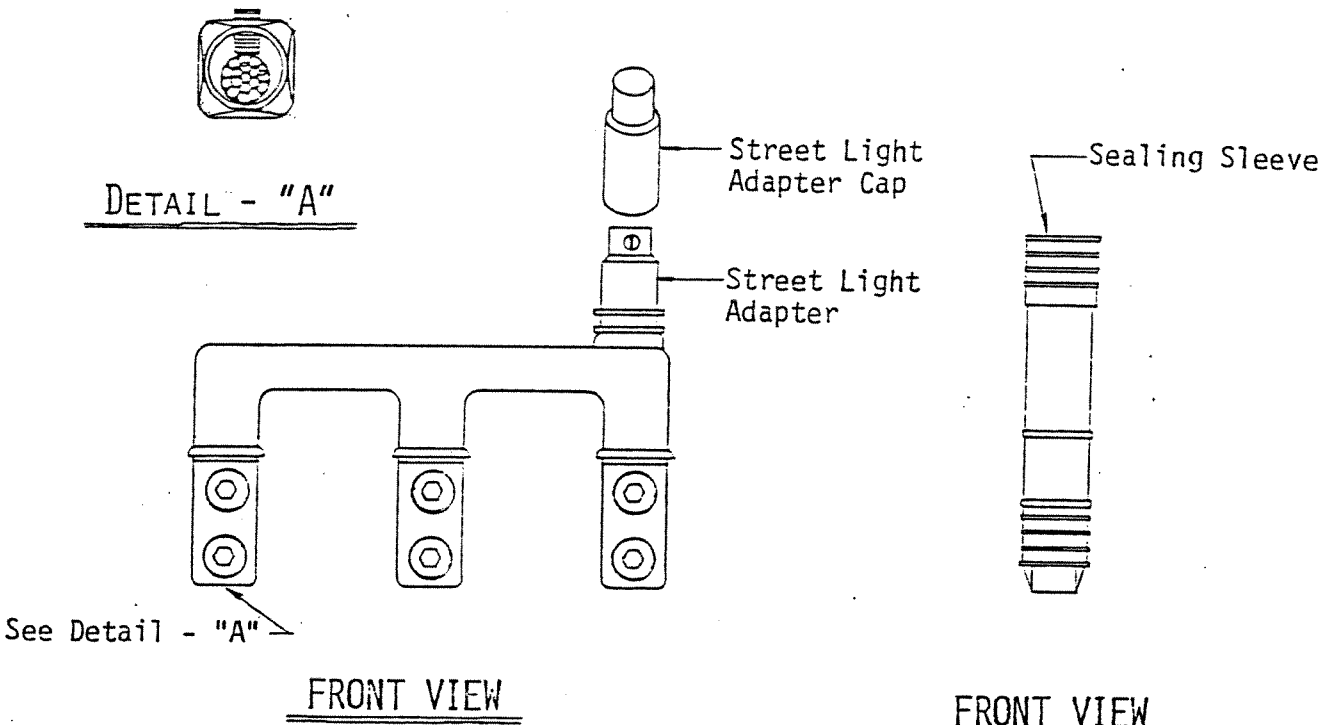
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FIGURE 1



INDEX NO.	EQUIPMENT AND DEVICES
SSUT-1364	Terminal (2) UPB 22 SL CU. Connector
1365	Terminal (3) Squid Type Cu. Connector
1366	Terminal (4) Squid Type Cu. Connector
1367	Terminal (5) Squid Type Cu. Connector
1368	Terminal (6) Squid Type Cu. Connector
SSUS-1178	Sleeve Rubber Insulating (0.350-0.60)
1179	Sleeve Rubber Insulating (0.540-0.73)
1180	Sleeve Rubber Insulating (0.720-0.96)
1181	Sleeve Rubber Insulating (0.220-0.38)

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