

NAVSHIPREPFAC YOKOSUKA  
LOCAL STANDARD ITEM

FY-02

ITEM NO: 099-22YO  
DATE: 01 JUL 2001  
CATEGORY: II

1. SCOPE:

1.1 Title: Shipboard Electric Cable; test

2. REFERENCES:

- a. SE000-00-EIM-110, Navy Installation and Maintenance Book (NIMB), Installation Standards

3. REQUIREMENTS:

3.1 Accomplish **an** insulation resistance test of **each** electric cable using a 500-volt, direct current megger. Disconnect low voltage equipment associated with circuits to be tested to prevent damage during tests.

3.1.1 Minimum acceptable readings of cable conductors to ground and between conductors:

Lighting Circuit	0.5 Megohm
Power Circuit	1.0 Megohm
Degaussing Circuit	0.1 Megohm
Interconnecting Control Circuit	1.0 Megohm
Interior Communication Circuit	0.2 Megohm
Sound Powered Telephone Circuit (with telephone disconnected)	0.05 Megohm

3.1.2 Minimum acceptable reading of coaxial cable circuit:

<u>LENGTH (FEET)</u>	<u>INSULATION RESISTANCE (MEGOHMS)</u>
100 (or less)	40,000
200	20,000
500	8,000
1,000	4,000

**3.1.3 Discharge coaxial cable to ground following insulation resistance test.**

3.2 Test each cable lead for continuity and complete circuit. Ensure terminal connections are tight.

3.3 Submit four legible copies of a report listing the results of the requirements of 3.1 and 3.2, including circuit number, lead numbers, and readings obtained, to NAVSHIPREPFAC within 48 hours after completion of tests.

3.3.1 Identify defective cables by circuit number, lead numbers, type, size, approximate length and readings obtained.

4. NOTES:

4.1 None.