

NAVSEA  
STANDARD ITEM

FY-04

ITEM NO: 009-22  
DATE: 30 AUG 2002  
CATEGORY: II

1. SCOPE:

1.1 Title: Shipboard Electric Cable; test

2. REFERENCES:

2.1 *None.*

3. REQUIREMENTS:

3.1 Accomplish an insulation resistance test of each electric cable **conductor** 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 **each** cable conductor 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:

<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 **conductor** for continuity and complete circuit. Ensure terminal connections are tight.

3.3 Submit **one** legible copy, **in hard copy or electronic media**, of a report listing results of the requirements of 3.1 and 3.2, including circuit number, lead numbers, and readings obtained, to the SUPERVISOR 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.