

**NAV18 - ELECTRICAL TESTING (ISO 4.10)**

A 1.	Are electrical tests performed in accordance with the procurement spec, specification or drawing?	___ Yes ___ No
A 2.	Were all specific electrical tests performed and recorded IAW procurement spec, specification or drawing?	___ Yes ___ No ___ N/A
A 3.	Does the supplier have an approved electrical test procedure? List Procedure and Reference approval Number, if applicable:	___ Yes ___ No ___ N/A
A 4.	Does electrical test procedures require special safety precautions?	___ Yes ___ No ___ N/A
A 5.	Are electrical tests performed on samples or 100% for production lots?  Sample: ___  100%: ___  Record sample size: _____	___ Yes ___ No ___ N/A
A 6.	If sampling is used for electrical tests, what sampling criteria are used?  List:	

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A 7.	Are electrical tests performed in an environmentally controlled area?	___ Yes ___ No ___ N/A
	Is humidity monitored and recorded?	___ Yes ___ No ___ N/A
	Is temperature monitored and recorded?	___ Yes ___ No ___ N/A
	Is barometric pressure monitored and recorded?	___ Yes ___ No ___ N/A
A 8.	Are instruments utilized during electrical tests part of the calibration program?	___ Yes ___ No ___ N/A
A 9.	<p>Are instruments, unique numbers of meters, probes, scopes, meggers, etc. recorded on test result documents?</p> <p>Record sample size: _____</p>	___ Yes ___ No ___ N/A
A 10.	Are personnel performing electrical tests knowledgeable and qualified in:	
	* Procedure?	___ Yes ___ No ___ N/A

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	* Use of tools?	___ Yes ___ No ___ N/A
	* Use of instruments?	___ Yes ___ No ___ N/A
A 11.	Does an electrostatic discharge (ESD) program exist at the facility?	___ Yes ___ No ___ N/A
A 12.	Does the supplier train personnel or have awareness program for ESD precautions?	___ Yes ___ No
A 13	a. Are electrical tests performed on materials that contain ESD sensitive components?	___ Yes ___ No ___ N/A
	b. Are special precautions observed?	___ Yes ___ No ___ N/A
A 14	a. Do procedures/work instructions, specifications or drawings require isolation of specific circuit during electrical testing?	___ Yes ___ No ___ N/A
	b. Were circuit isolations documented on test reports?	___ Yes ___ No ___ N/A

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A 15	a. Are special precautions required after electrical tests are performed (i.e. discharge time for motors, transformers, etc.)?	___ Yes ___ No ___ N/A
	b. Are special precautions documented on the test report?	___ Sat ___ Unsat
A 16	Is raw electrical data reviewed and accepted by qualified personnel?	___ Yes ___ No ___ N/A
A 17.	Are other tests required to be performed in conjunction with electrical testing (e.g. hydro)?	___ Yes ___ No ___ N/A
<b>THE FOLLOWING QUESTIONS PERTAIN TO WIRE/CABLE MANUFACTURERS IN ADDITION TO THE QUESTIONS ALREADY LISTED:</b>		
A 18.	Does the wire/cable manufacturer perform in process spark testing while producing wire/conductors?	___ Yes ___ No ___ N/A
A 19.	Does the process allow for the production line to "stop" to flag the defective area?	___ Yes ___ No ___ N/A
A 20.	Does the manufacturer perform electrical tests after each production operation (example: insulation resistance after twisting/shield operation)?	___ Yes ___ No ___ N/A
A 21.	Does a procedure exist to detect production splices? NOTE: Splices are not allowed in finished cable.	___ Yes ___ No ___ N/A

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A 22.	Are the numbers of production splices recorded on work-in-process documents and accounted for after final cable production?	___ Yes ___ No ___ N/A
A 23	a. Are cable production personnel knowledgeable of in process procedures/methods for detecting flaws (opens, shorts, etc.)?	___ Yes ___ No ___ N/A
	a. Are procedures readily available?	___ Yes ___ No ___ N/A
	b. Are nonconformance's documented?	___ Yes ___ No ___ N/A
A 24.	Are final electrical tests performed IAW the applicable specification or procurement spec?	___ Yes ___ No ___ N/A
A 25.	Are final electrical tests performed in an environment suitable for the tests?	___ Yes ___ No ___ N/A
A 26.	Are special precautions taken after electrical tests to prevent damage to product (example: Seal ends of cable to prevent moisture contamination, protection of cable jackets/sheathing, etc.)?	___ Yes ___ No ___ N/A
A 27.	Are shipping reels, size, O.D. in accordance with the specification or procurement spec?	___ Yes ___ No ___ N/A

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**Additional Comments/Concerns:**