Society of Cable Telecommunications Engineers

ENGINEERING COMMITTEE
Interface Practices Subcommittee

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Test Method for Moisture Inhibitor Corrosion Resistance

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1.0 SCOPE

1.1 This test is designed to measure the corrosion resistance of flooded coaxial drop cables, trunk, feeder, and distribution cables.

2.0 EQUIPMENT

2.1 Singleton Corrosion Test Cabinet (salt-fog chamber) or equivalent.

2.2 Diagonal Cutters

2.3 Band-saw (or equivalent)

2.4 Razor Blade

2.5 Ruler

3.0 TEST SAMPLES

3.1 Select five samples from each lot to be tested.

3.2 Cut samples to approximately 12 inches (300 mm) in length. Diagonal cutters are recommended to cut drop cable samples. A band saw (or equivalent) is recommended to cut trunk, distribution, and feeder specimens.

3.3 Using a razor blade, cut three longitudinal, rectangular slots through the jacket ¼ inch (6mm) wide by approximately 1 inch (25mm) long. Care must be taken not to score the shield components. If the shield is damaged while cutting the slots, the sample must be discarded and replaced with a new sample. Position the slots at least two inches (50mm) from each end with at least two inches between slots.

4.0 TEST METHOD

4.1 Place samples in a horizontal position inside the salt-fog chamber. Ensure that the open slots are facing upwards away from the direct spray.

4.2 Chamber environment

4.2.1 Temperature range 92° - 97° F (33.3° - 36.1° C)

4.2.2 5 (+/-.1) % Salt Solution (5% Salt + 95% Distilled Water by Weight)

4.2.3 Fog Concentration 100% Humidity

4.3 Duration of sample exposure to salt-fog is 144 hours.

5.0 INSPECTION

5.1 Using a razor blade, remove the entire circumference of jacket approximately 1 inch (25mm) away from both sides of each slot.
Note: The exposed area inside each open slot is not considered as an inspection area.

5.2 Clean the salt residue by washing with a wired brush from the area of inspection on each sample.

5.3 With the unaided eye, inspect the shield of the samples for any signs of corrosion originating from the open slots.

6.0 PASS/FAIL CRITERIA

6.1 One or more samples with any signs of corrosion originating from the open slots constitutes a failure.