



# Ethernet-APL Test Guide

## Device Under Test Setup:

- It is expected that all tests are performed with PHY communication abilities disabled. This is achieved by disabling Auto-Negotiation and setting the PHY to SLAVE mode. Regardless of the PHY state, each data line of the port under test shall be terminated with a 50 Ohm resistance behind a 1  $\mu$ F series capacitor in the Telebyte Probe.
- Enter the Power Class for the Device Under Test (Class A, B or C) into the test automation software.

## Expected Results (Pass/Fail Criteria):

Step	Status	Description
6	PASS	All filtered measurements of $U_{\text{Noise}}$ are less than or equal to 10 mV <sub>PP</sub>
6	FAIL	At least one filtered measurement of $U_{\text{Noise}}$ is greater than 10 mV <sub>PP</sub>

## Notes:

[1] APL Port Profile Draft 1.2 Section 5.4 575

[2] Ethernet-APL\_Power\_Test Specification\_v1.2

**This test is recommended for iterations over temperature and system-level loading**