



X2 PLC NODE (FCC ID: SPKBHPLCAA)

Permissive changes (Class 2) in EUT configuration and set-up

Arteche Model Overcap – S-24 Overhead Medium Voltage Capacitive Coupler as part of EUT option

The S-24 does not include a built-in fuse; the test configuration includes an external fuse in the interest of safety, as Ambient specifies in User's Manual (see Figure 1, User Manual).

The use of the proposed option does not affect the present frequency band of operation (2-35 MHz), because the capacitive coupler is a passive device.

However, the use of the proposed coupler may affect signal power coupled to the power line. Therefore, Ambient has tested radiated emissions from an X2 PLC NODE with the S-24 coupler *in-situ* by an independent lab, and the report is being submitted to the FCC.

An applicable Configuration File for the X2 PLC NODE Modem output setup has been created for this coupler, to ensure that the X2 PLC NODE EUT remains in compliance with applicable FCC Part 15 Subpart G requirements.



Figure 1: Arteche Model Overcap – S-24 Coupler with Fuse. The phase wire attaches to the upper cutout terminal, and the neutral wire attaches to a coupler ground terminal (not shown)