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Drop Amplifiers

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140 Philips Road
Exton, PA 19341

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1.0 SCOPE

The purpose of this specification is to recommend mechanical and electrical standards for broadband radio frequency (RF) devices whose primary purpose is to amplify signals presented to an input port and deliver the amplified signals to one or more output ports. The devices are also required to pass signals in a different range of frequencies in the return direction and, optionally, may provide amplification of such return signals. The specification's scope is limited to 75ohm devices whose ports are provided with F connectors. The most common use for such devices is on-premises RF signal distribution.

Devices covered by this specification include products commonly known as Drop Amplifiers. They may be mounted within Network Interface Device (NID) housings on dwellings or independently within dwellings. They are not intended to be cascaded with other Drop Amplifiers.

Two levels of compliance are specified. Devices meeting all electrical, mechanical and environmental specifications may be specified as meeting the requirements of this specification without qualification. Those meeting electrical and mechanical, but not the environmental requirements specified in Section 6 may be designated as meeting this specification with the suffix "For indoor use only" and the products must be marked as specified herein to guide users in their appropriate application.

The specification is not intended to apply to specialty devices, nor is it intended to limit or restrict any manufacturer's innovation and improvement.

2.0 MECHANICAL

2.1 RF Ports.

2.1.1 All RF ports shall be type F. F-female ports shall conform to the requirements of ANSI/SCTE 01 2006 (for outdoor use) or ANSI/SCTE 02 2006 (indoor use). F-male ports shall conform to the requirements of ANSI/SCTE 124 2006.

2.1.2 Where more than one connector exits from a common surface of the device, connectors will be spaced a minimum of 0.925" (23.49 mm) apart, center-to-center. Refer to Figure 1.

2.2 Power Port.

The power port, if provided, may be a type F female connector, a permanently attached cord, or some other connector of the manufacturer's choice. The device must meet all requirements of this specification in all powering configurations.