Installation Instructions

Bulletin 237399
Revision C

Types APT-(NFNF)-( ), APT-(NMNM)-( ), APT-(DFDF)-( ), APT-(NFNM)-( ) and APT-(DFDM)-( ) Arrestor Plus™ T-Series

Surge Arrestors

for Types 7-16 DIN and N Interfaces

Description

APT Surge Arrestors are designed to protect equipment from damaging transients induced by lightning strikes. These arrestors are available for use in several frequency bands and a variety of interface combinations. The operating bandwidth is specified on each arrestor.

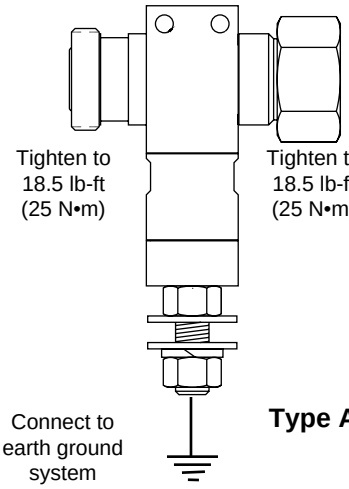
Installation

The arrestor is a **bidirectional** RF device. Thus either RF port may be connected to the equipment side or the antenna side of the transmission line interface to provide equivalent protection. Do not leave the APT Surge Arrestor RF ports exposed in outdoor applications.

The arrestor grounding stud **must** be attached to a master ground bar or the system's earth ground ring to ensure a low impedance path to ground.

During installation, all grounding contact surfaces must be clean, dry, and free of oxidation.

Note: *To prevent corrosion near areas of severe industrial pollution, surge arrestors installed outdoors must be wrapped with weatherproofing tape.*



Type APT-DFDM-9

Microwave Performance Testing

APT Surge Arrestors can be readily tested for microwave performance using any network analyzer. VSWR (return loss) and insertion loss are specified for the operating bandwidth only. Fault location testing can be performed through the arrestor with the appropriate test equipment; that is, a vector network analyzer with time domain capability. Some test equipment manufacturers refer to this type of fault location testing as Frequency Domain Reflectometry (FDR).

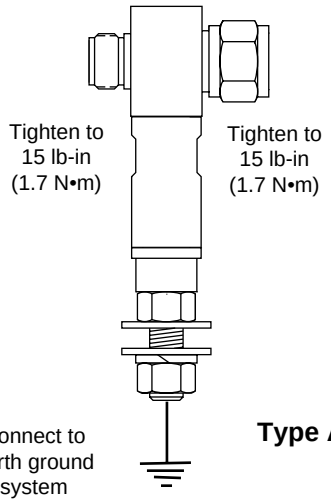
Surge Performance Testing

APT Surge Arrestors are constructed using extremely reliable quarter-wave technology and do not contain expendable devices that require periodic maintenance.

Notice

The installation, maintenance, or removal of antenna systems requires qualified, experienced personnel. Andrew installation instructions are written for such personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment.

Andrew disclaims any liability or responsibility for the results of improper or unsafe installation practices.



Type APT-NFNM-9

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