



## Outdoor Lightning Arrestor Kit (For TEW-455APBO)

TEW-ASAL1 (2.0R)

- Protect your network from catastrophic lightning strikes and electrical surge
- Use with TRENDnet's High Power Wireless Outdoor Access Point (TEW-455APBO)
- Multiple lightning strike and bi-directional protection
- Save repair expenses: no need to replace equipment after a lightning strike

The Outdoor Lightning Arrestor Kit protects your network from lightning strikes and electrical surges. It is compatible with devices that have N-Type connectors. Use the Outdoor Lightning Arrestor Kit to connect a wireless device, such as TRENDnet's High Power Wireless Outdoor PoE Access Point (TEW-455APBO), to an external antenna and protect your entire network from catastrophic electrical surges.

Multiple lightning strike and bi-directional features provide power protection from unpredictable weather conditions. 802.11a/b/g wireless standards are supported. Installation is simple and fast. A universal mounting kit, with all required hardware included, gives administrators the option to secure this device to walls, ceilings, poles and other outdoor structures.

- Protects TEW-455APBO from lightning strikes and other electrical surges
- Multiple lightning strike ready and Bi-Directional support helps protect devices from the erratic and unpredictable nature of lightning storms
- Cables and connectors included for flexible connections between rigid outdoor devices and outdoor antennas
- Simple wall mount installation
- No configuration or installation software required-simply plug in and play
- 3-year warranty

## Networking Solution



## Specifications

### Surge Arrestor

#### Electrical Specifications

##### Frequency Range

- DC ~ 6GHz

##### Tensile Strength

- 50Kg

##### VSWR

- 2.0:1 Max ( DC ~ 6GHz )

##### Insertion Loss

- 1.8dB Max (DC ~ 6GHz )

##### DC Breakdown Voltage

- 90V + 20%

##### Impulse Discharge Voltage

- 5KA min (wave 8/20 µs)
- 10KV min (wave 1.2/50 µs)

##### Impedance

- 50Ω

##### Insulation Resistance

- DC 50V > 10,000 MΩ

#### Mechanical Specifications

##### Connector Interface

- N-Type male to N-Type male

##### Body Material

- Copper

##### Temperature

- - 20°C ~ 70°C (-4°F ~158°F)

##### Surge Arrestor

- Embedded with 1 meter extension cable

##### Weight

- 250g (8.82oz.)

#### Grounding Wire Cable Specification

##### Wire Cable

- 18 AWG

##### Rating Voltage

- 600V

##### Rating Temperature

- 105°C (221°F)

##### Conductor Resistance

- 6.64 MΩ/KFT 20°C

##### Insulation Resistance

- 2.5 MΩ/KFT 20°C, in water

##### Voltage Withstand Test

- 2 KV/min, in water

### Cable Convertor

#### Extension Cable

##### Inner Conductor(Solid BCCS)

- 0.94 mm (0.037 in.)

##### Dielectric (Foam PE)

- 2.79 mm (0.110 in.)

##### Outer Conductor

- (Aluminum Tape)
- 2.95 mm (0.116 in.)

##### Overall Braid (Tinned Copper)

- 3.53 mm (0.139 in.)

##### Jacket (PE)

- 4.95 mm (0.195 in.)

##### Bend Radius: Installation

- 12.7 mm (0.5 in.)

##### Bend Radius: Repeated

- 50.8 mm (2.0 in.)

##### Bending Moment

- 0.27 N-m (0.2 ft-lb)

##### Weight

- 0.03 kg/m (0.021 lb/ft)

##### Tensile Strength

- 18.2kg (40 lb)

##### Flat Plate Crush

- 0.27 kg/mm (15 lb/in.)

##### Cut-off Frequency

- 41GHz

##### Velocity of Propagation

- 80%

##### Dielectric Constant

- 1.56

##### Time Delay

- 4.17 nS/m (1.27 nS/ft)

##### Impedance

- 50 ohms

##### Capacitance

- 80.3 pF/m (25.4 pF/ft)

##### Inductance

- 0.21 uH/m (0.064 uH/ft)

##### Shielding Effectiveness

- 90dB

##### DC Resistance (Inner Conductor)

- 24.9 ohms/km (7.6 ohms/1000ft)

##### DC Resistance (Outer Conductor)

- 16.1 ohms/km (4.9 ohms/1000ft)

##### Voltage Withstand

- 1000 Volts DC

##### Jack Spark

- 3000 Volts RMS

##### Peak Power

- 2.5KW

##### Storage Temperature Range

- -70° C ~ 85° C (-94° F ~ 185° F)

##### Operating Temperature Range

- -40° C ~ 85° C (-40° F ~ 185° F)

##### Package Contents

- TEW-ASAL1
- Multi-language Quick Installation Guide
- Mounting Bracket
- Weatherproof tape