



# 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

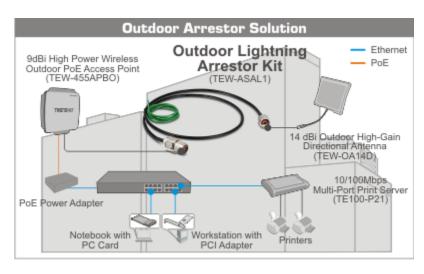
The Outdoor Lightning Arrestor Kit protects your network from lightning strikes and electrical surges. It is compatible with devices that have N-Type connectors. Use the Outdoor Lightning Arrestor Kit to connect a wireless device, such as TRENDnet's High Power Wireless Outdoor PoE Access Point (TEW-455APBO),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

# **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 M $\Omega$ 

#### **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 Strenath**

• 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