



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

### TEW-ASAL1

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.

## FEATURES

- 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 within the box 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

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

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### SPECIFICATIONS

#### Surge Arrestor

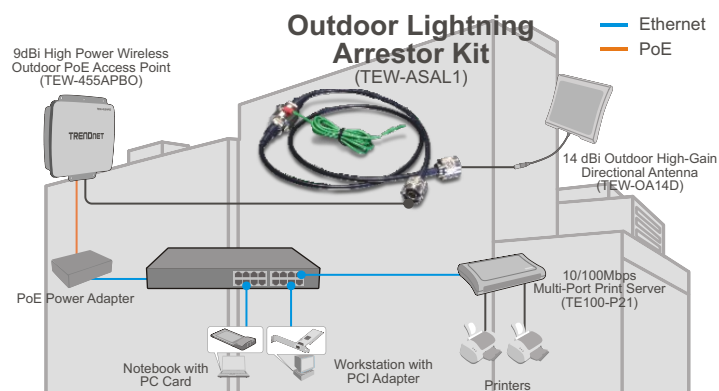
| Electrical Specifications          |   |
|------------------------------------|---|
| Frequency Range                    | • DC ~ 3GHz   |
| Tensile Strength                   | • 50Kg  |
| VSWR                               | • 1.5:1 Max (DC-3GHz)   |
| Insertion Loss                     | • 1.3dB Max (DC-3GHz)   |
| DC Breakdown Voltage               | • 90V + 20%   |
| Impulse Discharge Voltage          | • 5KA min (wave 8/20 $\mu$ s)<br>• 10KV min (wave 1.2/50 $\mu$ s) |
| Impedance                          | • 50 $\Omega$   |
| Insulation Resistance              | • DC 50V > 10000M $\Omega$  |
| Mechanical Specifications          |   |
| Connector Interface                | • N-Type male to N-Type male                                      |
| Body Material                      | • Copper  |
| Temperature                        | • - 20°C ~ 70°C (-4°F ~158°F)                                     |
| Cable Length                       | • 42 inches (1.1meter)  |
| Weight                             | • 230g (8oz)  |
| Grounding Wire Cable Specification |   |
| Wire Cable                         | • 18 AWG  |
| Rating Voltage                     | • 600V  |
| Rating Temperature                 | • 105°C (221°F)   |
| Conductor Resistance               | • 6.64 MO/KFT 20°C  |
| Insulation Resistance              | • 2.5 MO/KFT 20°C, in water                                       |
| Voltage Withstand Test             | • 2 KV/min, in water  |
| Extension Cable Spec               |   |
| Inner Conductor (Solid BCCS)       | • 0.037 in. (0.94mm)  |
| Dielectric (Foam PE)               | • 0.110 in (2.79mm)   |
| Outer Conductor (Aluminum Tape)    | • 0.116 in (2.95mm)   |
| Overall Braid (Tinned Copper)      | • 0.139 in (3.53mm)   |
| Jacket (PE)                        | • 0.195 in (4.95mm)   |
| Bend Radius: Installation          | • 0.5 in (12.7mm)   |
| Bend Radius: Repeated              | • 2.0 in (50.8mm)   |
| Bending Moment                     | • 0.2 ft-lb (0.27 N-m)  |
| Weight                             | • 0.021 lb/ft (0.03 kg/m)   |
| Tensile Strength                   | • 40 lb (18.2 kg)   |
| Flat Plate Crush                   | • 15 lb/in. (0.27 kg/mm)  |
| Cut-off Frequency                  | • 41 GHz  |
| Velocity of Propagation            | • 80%   |

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| Extension Cable Spec            |                                  |
|---------------------------------|----------------------------------|
| Dielectric Constant             | • 1.56                           |
| Time Delay                      | • 1.27 nS/ft (4.17 nS/m)         |
| Impedance                       | • 50 ohms                        |
| Capacitance                     | • 25.4 pF/ft (80.3 pF/m)         |
| Inductance                      | • 0.064 uH/ft (0.21 uH/m)        |
| Shielding Effectiveness         | • > 90 dB                        |
| DC Resistance (Inner Conductor) | • 7.6 ohms/1000ft (24.9 ohms/km) |
| DC Resistance (Outer Conductor) | • 4.9 ohms/1000ft (16.1 ohms/km) |
| Voltage Withstand               | • 1000 Volts DC                  |
| Jacket Spark                    | • 3000 Volts RMS                 |
| Peak Power                      | • 2.5 KW                         |
| Storage Temperature range       | • -70°~85° (-94°~ ~185°)         |
| Operating Temperature range     | • -40°~85° (-40°~ ~185°)         |

## OUTDOOR ARRESTOR SOLUTION



## PACKAGE CONTENTS

- TEW-ASAL1
- Multi-language quick installation guide
- Grounding wire
- Weather proof tape

## RELATED PRODUCTS

|             |  |
|-------------|--|
| TEW-455APBO | 19dBi High Power Outdoor PoE Access Point    |
| TEW-AO14D   | 14 dBi Outdoor High-Gain Directional Antenna |
| TEW-AO19D   | 19 dBi Outdoor High-Gain Directional Antenna |
| TEW-AO08O   | 8dBi Outdoor Omni-Directional Antenna        |
| TEW-AO10O   | 10dBi Outdoor Omni-Directional Antenna       |

## ORDERING INFORMATION

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