Commscope EWSH-52

Commscope EWSH-52 Waveguide Snap-in Hanger Kit Instruction Manual

Model: EWSH-52 | Brand: Commscope

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of the Commscope EWSH-52 Waveguide Snap-in Hanger Kit. This kit is designed to securely mount elliptical waveguides, ensuring stable and reliable performance in various environmental conditions. Please read this manual thoroughly before proceeding with installation.
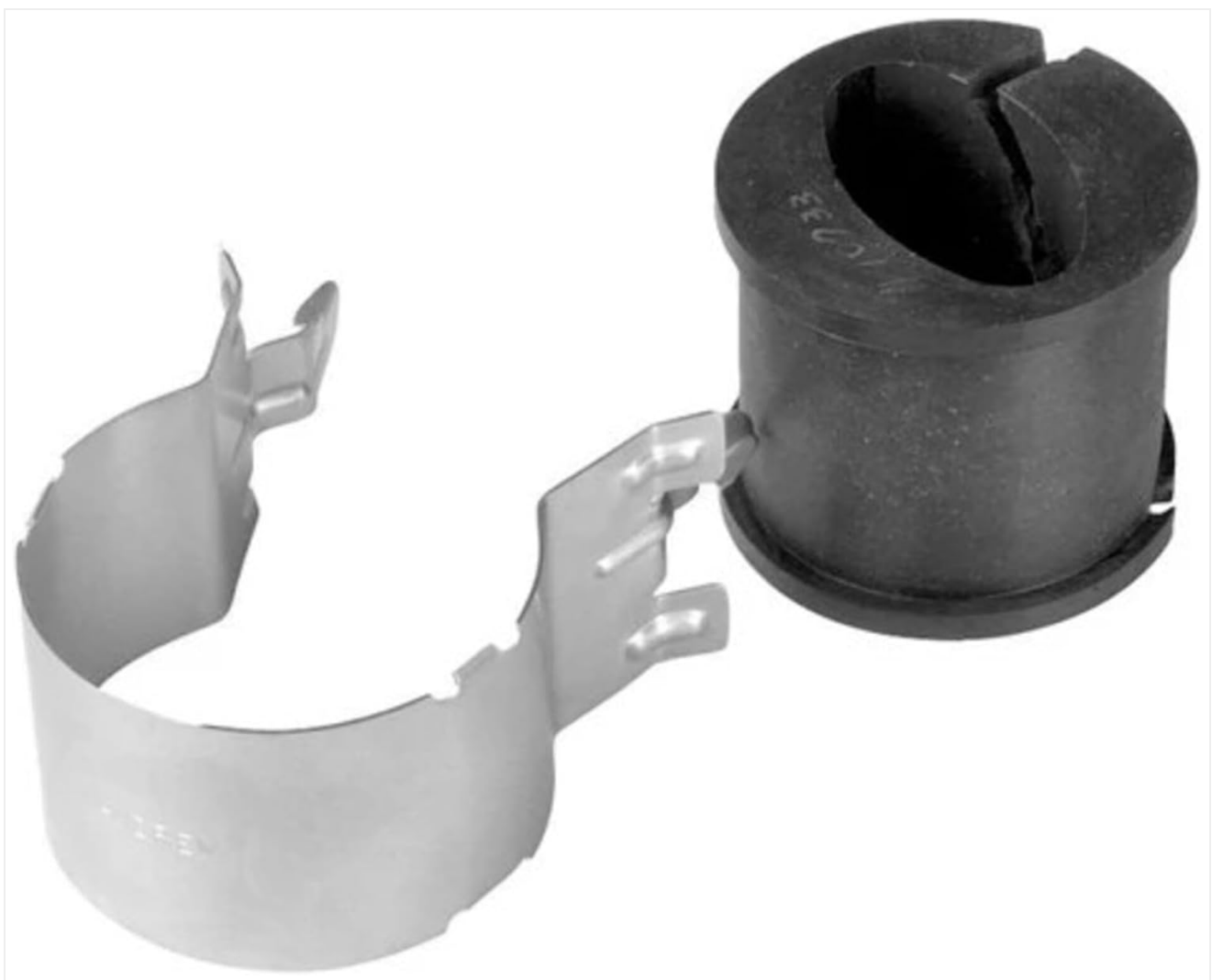
2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE) during installation, including gloves and eye protection.
- Ensure all tools are in good working condition before use.
- Do not exceed the specified cable weight capacity for the hanger.
- Verify the mounting surface is structurally sound and capable of supporting the hanger and waveguide assembly.
- Follow all local safety regulations and guidelines.

3. PRODUCT COMPONENTS

The Commscope EWSH-52 Waveguide Snap-in Hanger Kit consists of two primary components:

- **Metal Clamp:** A silver-colored, U-shaped metal bracket designed to provide structural support and secure attachment.
- **Rubber Insert:** A black, cylindrical rubber bushing that fits within the metal clamp, providing cushioning and a snug fit for the elliptical waveguide.

This image displays the two primary components of the Commscope EWSH-52 Waveguide Snap-in Hanger Kit: a silver-colored metal clamp designed to secure the waveguide, and a black, cylindrical rubber insert that provides cushioning and a snug fit for the waveguide within the clamp.

4. SPECIFICATIONS

Attribute	Value
Product Type	Hanger kit
Cable Type	Elliptical waveguide
Cables per Hanger	1
Color	Silver
Hanger Type	Snap-in hanger
Mounting	3/4 in through hole
Height	40.894 mm	1.61 in
Width	59.944 mm	2.36 in
Length	89.916 mm	3.54 in
Compatible Diameter, maximum	34.798 mm	1.37 in

Attribute	Value
Compatible Diameter, minimum	30.988 mm | 1.22 in
Waveguide Size	WR159 | WG13 | R58
Return Loss Effect	0.1 dB
DTF Effect	0.1 dB
Material Type	Stainless steel
Vibration Survival	≥4 hours at resonant frequency
Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Corrosion Resistance	≥500 hours in salt spray chamber
Environmental Strength Capability	Double cable weight
Packaging quantity	10
Weight, gross	1.6 kg | 3.527 lb
Regulatory Compliance	ISO 9001:2015
Product Dimensions	4 x 2 x 2 inches
Manufacturer	CommScope / Amphenol
ASIN	B00QU9J38K
Item model number	EWSH-52
Date First Available	September 1, 2025

5. SETUP AND INSTALLATION

Follow these steps for proper installation of the EWSH-52 Waveguide Snap-in Hanger Kit:

1. **Identify Mounting Location:** Select a suitable, structurally sound mounting surface that can support the weight of the waveguide and hanger.

2. **Prepare Mounting Hole:** Create a 3/4 inch through-hole at the desired mounting point. Ensure the hole is clean and free of debris.

3. **Insert Rubber Bushing:** Carefully place the black rubber insert into the silver metal clamp. Ensure it is seated correctly and securely within the clamp.

4. **Position Waveguide:** Gently guide the elliptical waveguide into the opening of the rubber bushing. The snap-in design allows for easy insertion while providing a firm grip.

5. **Secure Hanger:** Align the hanger assembly with the prepared 3/4 inch through-hole. Use appropriate fasteners (not included) to secure the hanger firmly to the mounting surface. Ensure the hanger is tight and does not wobble.

6. **Verify Security:** After installation, visually inspect the hanger and waveguide to ensure they are securely mounted and the waveguide is properly supported without undue stress.

6. OPERATION

The Commscope EWSH-52 Waveguide Snap-in Hanger is a passive component designed to provide continuous support and secure positioning for elliptical waveguides. Once installed, it functions by:

- **Securing Waveguide:** The snap-in design of the rubber insert firmly holds the waveguide, preventing movement and vibration.
- **Vibration Dampening:** The rubber insert helps to absorb vibrations, protecting the waveguide from mechanical stress and potential damage.
- **Environmental Protection:** Constructed from stainless steel and designed for a wide operating temperature range and corrosion resistance, the hanger ensures long-term reliability in various outdoor and indoor environments.

No active user interaction is required after proper installation.

7. MAINTENANCE

The Commscope EWSH-52 Waveguide Snap-in Hanger Kit is designed for minimal maintenance. However, periodic inspection is recommended to ensure optimal performance and longevity:

- **Visual Inspection:** Periodically check the hanger and waveguide for any signs of physical damage, corrosion, or loosening.
- **Tightness Check:** Ensure that the mounting fasteners remain tight and secure. Re-tighten if necessary, but do not overtighten.
- **Cleanliness:** If installed in dusty or dirty environments, gently clean the hanger and surrounding area to prevent accumulation that could affect performance or material integrity.
- **Rubber Insert Integrity:** Inspect the rubber insert for cracks, hardening, or degradation. Replace if any significant wear is observed to maintain proper waveguide cushioning and grip.

8. TROUBLESHOOTING

Most issues related to the EWSH-52 hanger are typically due to improper installation or environmental factors. Consider the following:

- **Waveguide Movement/Slippage:**
  - Ensure the rubber insert is correctly seated within the metal clamp.
  - Verify the waveguide diameter is within the compatible range (30.988 mm to 34.798 mm).
  - Check if the mounting fasteners are sufficiently tightened.
  - Inspect the rubber insert for wear or damage; replace if necessary.

- **Hanger Loosening from Mounting Surface:**
  - Re-tighten the mounting fasteners.
  - Inspect the mounting surface for degradation or structural issues.
  - Ensure appropriate fasteners were used for the mounting material.

- **Corrosion on Metal Clamp:**
  - While designed for corrosion resistance, extreme environments can accelerate wear. Clean the surface and apply a protective coating if needed, ensuring it does not interfere with the waveguide or rubber.
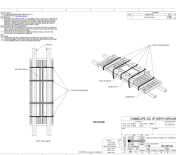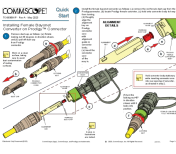 - Consider environmental shielding if corrosion is severe and persistent.
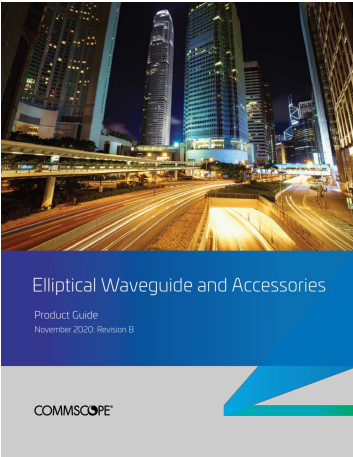
9. WARRANTY AND SUPPORT

For specific warranty information regarding the Commscope EWSH-52 Waveguide Snap-in Hanger Kit, please refer to the terms and conditions provided at the point of purchase or contact Commscope directly. This product is manufactured under an ISO 9001:2015 quality management system.

For technical support or further assistance, please visit the official Commscope website or contact their customer service department. When contacting support, please have your product model number (EWSH-52) and any relevant purchase details available.

Manufacturer: CommScope / Amphenol

Related Documents - EWSH-52

	[CommScope PIM Guard SnapTak Hanger SSH-3642 Installation Instructions for 36-42mm Cables](#) Detailed installation guide for the CommScope PIM Guard SnapTak Hanger (model SSH-3642), suitable for 36-42mm cables. Learn how to install and remove the hanger safely. Includes part specifications and contact information.
	[CommScope UHA-3C Universal Adapter Base Installation Instructions](#) Detailed installation guide for the CommScope UHA-3C Universal Adapter base, used for horizontal cable management on towers and rooftops. Includes part information and safety warnings.
	[CommScope 08'x10' Rain Canopy, 13'-4" Burial Post - Technical Specification](#) Technical specifications and component breakdown for the CommScope 08'x10' Rain Canopy, 13'-4" Burial Post (Model: RC-0810-B). Includes general notes, manufacturing requirements, packaging details, and a comprehensive parts list with dimensions and weights.
	[RUCKUS Partner Accreditation and Certification Guide | CommScope](#) This guide outlines the RUCKUS Partner accreditation and certification requirements, detailing training paths, access to CommScope University, and compliance navigation for partners.
	[CommScope ValuLine VHLP3 Antennas Installation Guide](#) Detailed installation instructions for CommScope's ValuLine VHLP3 antennas, covering safety, equipment, assembly steps, and hardware specifications.
	[CommScope Prodigy Connector: Quick Start Guide for Installing Female Bayonet Converter](#) This guide provides step-by-step instructions for installing and removing the CommScope Female Bayonet Converter on a Prodigy Connector, including detailed descriptions of diagrams and necessary precautions. Covers model TC-96366-IP.

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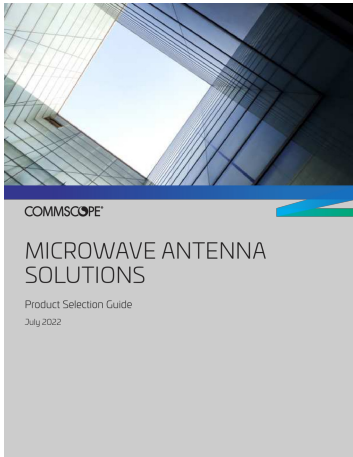
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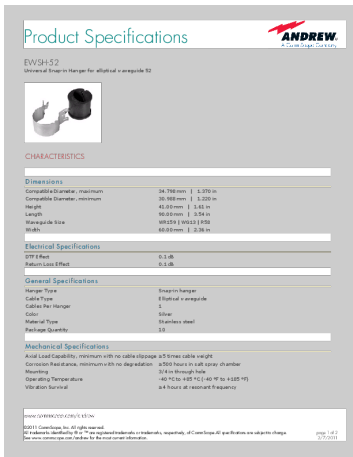
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Product Specifications **EWSH-52** Universal Snapin Hanger for elliptical waveguide 52 CHARACTERISTICS Dimensions Compatible Diameter, maximum Compatible Diameter, minimum Height Length Waveguide Size Width 34.798 mm 1.370 in 30.988 mm 1.220 in 41.00 mm 1.61 in 90.00 mm 3.54 in WR159 WG13 ...

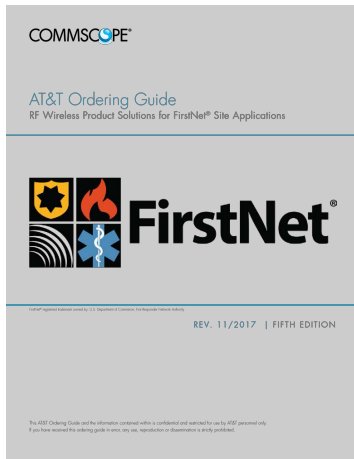lang:en score:32 filesize: 234.67 K page_count: 2 document date: 0000-00-00

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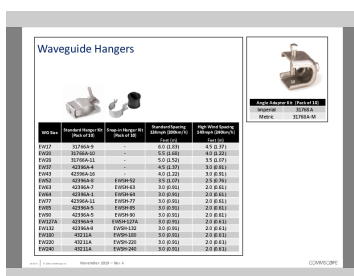

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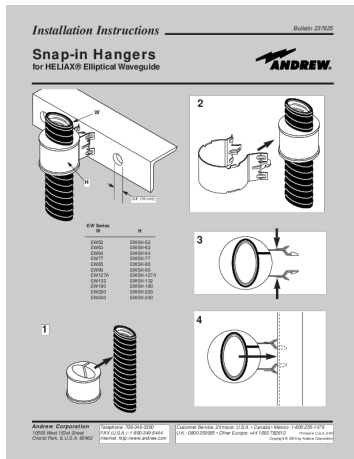lang:en score:21 filesize: 1.95 M page_count: 68 document date: 2021-03-29

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