

# UG12158-15B4-T

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Universal Grounding Kit for HELIAX® 1/2 in through 1-5/8 in corrugated and smoothwall coaxial cable, elliptical waveguide 63 through 180 and Hybrid cables

## Product Classification

<b>Product Type</b>	Grounding kit
<b>Ordering Note</b>	CommScope® standard product (Global)

## General Specifications

<b>Bonding Conductor Jacketing Material</b>	PVC
<b>Bonding Conductor Material</b>	Copper
<b>Bonding Conductor Wire Size</b>	6 gauge
<b>Cable Type</b>	Corrugated   Elliptical waveguide   Smoothwall
<b>Color</b>	Black
<b>Grounding Kit Type</b>	Universal Grounding Kits
<b>Grounding Strap Material</b>	Tinned copper
<b>Lug Attachment</b>	Field attached
<b>Lug Type</b>	Two-hole lug
<b>Thread Size</b>	3/8 in

## Dimensions

<b>Bonding Conductor Length</b>	1524 mm   60 in
<b>Cable Jacketing Removal Length, maximum</b>	58.42 mm   2.3 in
<b>Cable Jacketing Removal Length, minimum</b>	55.88 mm   2.2 in
<b>Compatible Diameter, maximum</b>	50.8 mm   2 in
<b>Compatible Diameter, minimum</b>	15.494 mm   0.61 in
<b>Nominal Size</b>	1-1/4 in   1-5/8 in   1/2 in   5/8 in   7/8 in
<b>Waveguide Size</b>	WR51-WR137   WG19-WG14   R180-R70

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## Electrical Specifications

<b>Current Handling</b>	Tested to withstand 100,000 amps peak current surge
<b>Current Handling Test Method</b>	MIL-STD-1757
<b>Grounding, Bonding and Shielding Test Method</b>	MIL-STD-188-124A
<b>Lightning Protection Test Method</b>	IEC 1024-1

## Material Specifications

<b>Rivet Material</b>	Copper
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## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Storage Temperature</b>	-40 °C to +80 °C (-40 °F to +176 °F)
<b>Blowing Rain Test Method</b>	MIL-STD-810, Method 506
<b>Corrosion Test Method</b>	MIL-STD-1344, Method 1001
<b>Freezing Rain/Icing Test Method</b>	MIL-STD-810, Method 521
<b>Humidity Test Method</b>	MIL-STD-1344, Method 1002
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>UV Resistance Test Method</b>	MIL-STD-810, Method 505
<b>Vibration Test Method</b>	MIL-STD-202, Method 214
<b>Weatherproofing Method</b>	Butyl and electric tape

## Packaging and Weights

<b>Height, packed</b>	215.9 mm   8.5 in
<b>Width, packed</b>	152.4 mm   6 in
<b>Length, packed</b>	63.5 mm   2.5 in
<b>Included</b>	Grounding kit   Hardware   Lug   One roll of 2 in PVC tape   One roll of 24 in butyl rubber tape
<b>Packaging quantity</b>	1
<b>Weight, gross</b>	0.71 kg   1.565 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

- 42615-10 – Butyl Rubber Tape, 24 in
- 9905-71 – Black 2 in PVC Tape, 20 ft

## \* Footnotes

<b>Grounding, Bonding and Shielding Test Method</b>	Military Standard for Grounding, Bonding, and Shielding: Bond Resistance Requirement of a Maximum dc resistance of 0.001 ohm
<b>Lightning Protection Test Method</b>	Protection Against Lightning Electromagnetic Impulse, Table 1—Protection Level III–IV, 1995-02



## Butyl Rubber Tape, 24 in

### Product Classification

<b>Product Type</b>	Weatherproofing tape
<b>Ordering Note</b>	CommScope® non-standard product

### General Specifications

<b>Application</b>	Provides additional moisture seal for cable connections
<b>Applications per Kit</b>	One 1/2 in–2-1/4 in   One 1/2 in–7/8 in   One 1/2 in–7/8 in to device   Two 1/2 in–1/2 in
<b>Color</b>	Black

### Dimensions

<b>Width</b>	63.5 mm   2.5 in
<b>Length</b>	609.6 mm   24 in
<b>Nominal Size</b>	1-1/4 in   1-5/8 in   1/2 in   1/4 in   2-1/4 in   3/8 in   5/8 in   7/8 in

### Material Specifications

<b>Material Type</b>	Butyl rubber tape
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### Environmental Specifications

<b>UV Resistance Test Method</b>	Butyl test method in QUV weatherometer cycle of 8 hours UV at 150 °F then 4 hours of condensation at 104 °F
<b>UV Resistance, minimum with no degradation</b>	≥1000 hours
<b>Weather Resistance Test Method</b>	04AS00-03.6.0   MIL-STD-1344A, Method 1002

### Packaging and Weights

<b>Height, packed</b>	63.5 mm   2.5 in
<b>Width, packed</b>	71.12 mm   2.8 in
<b>Length, packed</b>	25.4 mm   1 in

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**Packaging quantity** 1  
**Weight, gross** 0.17 kg | 0.375 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

# 9905-71

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Black 2 in PVC Tape, 20 ft

## Product Classification

<b>Product Type</b>	Weatherproofing tape
<b>Ordering Note</b>	CommScope® non-standard product

## General Specifications

<b>Application</b>	Provides additional moisture seal for cable connections
<b>Applications per Kit</b>	Four 1/2 in–1/2 in   Four 1/2 in–7/8 in to device   One 1/2 in–2-1/4 in   Two 1/2 in–7/8 in
<b>Color</b>	Black

## Dimensions

<b>Width</b>	50.8 mm   2 in
<b>Length</b>	6096 mm   240 in
<b>Nominal Size</b>	1-1/4 in   1-5/8 in   1/2 in   1/4 in   2-1/4 in   3/8 in   5/8 in   7/8 in

## Material Specifications

<b>Material Type</b>	PVC tape
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## Environmental Specifications

<b>UV Resistance Test Method</b>	PVC tape test method UL 510, ASTM D1000
<b>Weather Resistance Test Method</b>	04AS00-03.6.0   MIL-STD-1344A, Method 1002

## Packaging and Weights

<b>Height, packed</b>	63.5 mm   2.5 in
<b>Width, packed</b>	63.5 mm   2.5 in
<b>Length, packed</b>	50.8 mm   2 in
<b>Packaging quantity</b>	1
<b>Weight, gross</b>	0.08 kg   0.176 lb

## Regulatory Compliance/Certifications

**Agency**

ISO 9001:2015

**Classification**

Designed, manufactured and/or distributed under this quality management system