



Standard Grounding Kit for 1/2 in corrugated coaxial cable and elliptical waveguide 180 and 220

Product Classification

Product Type	Grounding kit
Product Brand	HELIAX®
Ordering Note	CommScope® standard product (Global)

General Specifications

Bonding Conductor Jacketing Material	PVC
Bonding Conductor Material	Copper
Bonding Conductor Wire Size	6 gauge
Cable Type	Corrugated Elliptical waveguide
Color	Black
Grounding Kit Type	Standard Grounding Kits
Grounding Strap Material	Copper
Lug Attachment	Factory attached
Lug Type	Two-hole lug
Thread Size	3/8 in

Dimensions

Bonding Conductor Length	609.6 mm 24 in
Cable Jacketing Removal Length, maximum	58.42 mm 2.3 in
Cable Jacketing Removal Length, minimum	55.88 mm 2.2 in
Compatible Diameter, maximum	16.51 mm 0.65 in
Compatible Diameter, minimum	15.494 mm 0.61 in
Nominal Size	1/2 in
Waveguide Size	WR42 WG20 R220 WR51 WG19 R180

241088-1

Electrical Specifications

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

Material Specifications

Rivet Material	Copper
-----------------------	--------

Environmental Specifications

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

Packaging and Weights

Height, packed	266.7 mm 10.5 in
Width, packed	266.7 mm 10.5 in
Length, packed	58.42 mm 2.3 in
Included	Grounding kit Hardware Lug One roll of 2 in PVC tape One roll of 24 in butyl rubber tape
Packaging quantity	1
Weight, gross	0.72 kg 1.587 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value

241088-1

ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

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

* Footnotes

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



Butyl Rubber Tape, 24 in

Product Classification

Product Type	Weatherproofing tape
Product Brand	HELIAX®
Ordering Note	CommScope® non-standard product

General Specifications

Application	Provides additional moisture seal for cable connections
Applications per Kit	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
Color	Black

Dimensions

Width	63.5 mm 2.5 in
Length	609.6 mm 24 in
Nominal Size	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

Material Type	Butyl rubber tape
----------------------	-------------------

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
UV Resistance Test Method	Butyl test method in QUV weatherometer cycle of 8 hours UV at 150 °F then 4 hours of condensation at 104 °F
UV Resistance, minimum with no degradation	≥1000 hours
Weather Resistance Test Method	04AS00-03.6.0 MIL-STD-1344A, Method 1002

Packaging and Weights

Height, packed	63.5 mm 2.5 in
-----------------------	------------------

42615-10

Width, packed	71.12 mm 2.8 in
Length, packed	25.4 mm 1 in
Packaging quantity	1
Weight, gross	0.17 kg 0.375 lb

Regulatory Compliance/Certifications

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

9905-71



Black 2 in PVC Tape, 20 ft

Product Classification

Product Type	Weatherproofing tape
Product Brand	HELIAX®
Ordering Note	CommScope® non-standard product

General Specifications

Application	Provides additional moisture seal for cable connections
Applications per Kit	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
Color	Black

Dimensions

Width	50.8 mm 2 in
Length	6096 mm 240 in
Nominal Size	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

Material Type	PVC tape
----------------------	----------

Environmental Specifications

Operating Temperature	-10 °C to +80 °C (+14 °F to +176 °F)
UV Resistance Test Method	PVC tape test method UL 510, ASTM D1000
Weather Resistance Test Method	04AS00-03.6.0 MIL-STD-1344A, Method 1002

Packaging and Weights

Height, packed	63.5 mm 2.5 in
Width, packed	63.5 mm 2.5 in
Length, packed	50.8 mm 2 in

9905-71

Packaging quantity 1
Weight, gross 0.08 kg | 0.176 lb

Regulatory Compliance/Certifications

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