

# CEL-FI GO G41

## In-Building Cellular Coverage Solution

**KIT#:** G41-BE-003

Combining unmatched performance with ease of installation, CEL-FI GO G41 is a single-operator cellular signal booster that delivers reliable in-building 4G and 5G connectivity for “small box” retail stores, branch offices, and homes. In addition to featuring the latest Nextivity proprietary 4th generation IntelliBoost technology, which delivers channelized signal boosting and industry-leading signal gain up to 100 dB, GO G41 can be installed in as little as one day and can be monitored and managed remotely via the Nextivity WAVE Portal. GO G41 also gives you the flexibility to select and switch which MNO signal to boost via the Nextivity WAVE App.



CEL-FI GO G41

### Features and benefits include:

- Latest 4th generation Nextivity proprietary IntelliBoost chip delivers channelized coverage for specific mobile network operator’s (MNO) signals
- Ready to extend coverage for future 5G networks
- Industry-leading signal gain up to 100 dB to overcome coverage challenges where no other solution can
- Automatic gain control (AGC) feature automatically adjusts the signal strength to prevent interference with the MNO network
- System monitoring via Nextivity WAVE App and management with WAVE Portal


 Use Nextivity **WAVE** App to view real-time system performance.

Download on the App Store

GET IT ON Google Play

## Specifications

Frequency Bands	2/4/5/12/13/25
Relay Channel Bandwidths (MHz)	5/10/15/20
Networks	4G/5G
Network Protocols	LTE/DSS/NR*
Network Selection	Automatically best available (WAVE App for manual setting)
Duplex Modes	FDD
# of Relay Bands (MHz max.)	2
Relay Bandwidth (MHz max.)	20 + 20
Output Downlink Power (All Bands) (dBm max.)	16
Output Uplink Power (Bands 2/4/25) (dBm max.)	22
Output Uplink Power (Bands 5/12/13) (dBm max.)	20
System Gain (dBm max.)	100
Enterprise-Grade Echo Cancellation (dB min.)	30
Return Loss (dB typ.)	-8
Impedance (Ω nom.)	50

\*Available with software update in 2024

## Bands

Frequency Bands	Downlink (MHz)	Uplink (MHz)	Max. Relay BW (MHz)
2	1930-1990	1850-1910	20
4	2110-2155	1710-1755	20
5	869-894	824-849	15
12	729-746	699-716	10
13	746-756	777-787	10
25	1930-1995	1850-1915	20

## Interface

Donor RF Connector	SMA (f)
Server RF Connector	SMA (f)
DC Input	5.5 x 2.5 mm (f) Barrel
Device Setup	Bluetooth for WAVE App
Power & System Status	Bi-color LED (Green/Red)
LAN Status	Bi-color LED (Green/Red)
Factory Debug only	USB 2.0 Micro-B
System Management & SW Updates	WAVE App for iOS 11.0 or later WAVE App for Android WAVE Portal for Desktop

## Compliance

3GPP	TS 25.143 Rel 13 3GPP TS 36.143 Rel 13
FCC	Compliant Part 15, Part 20, Part 22, Part 24, Part 27
RoHS3	EN 63000: 2018
UL	Yes
ISED	Yes
Bluetooth	LE Ver 4.2

## Power Supply

Power Consumption (W max.)	30
Power Supply Plug	Type A (US)
Power Supply Cable	18 AWG
Power Supply Cable Length (ft (m))	6 (1.85)

## Environmental

Operating Temperature (°F (°C))	32 to 104 (0 to 40)
Storage Temperature (°F (°C))	-31 to 158 (-35 to 70)
Heat Dissipation	Passive Convection
Surface Temperature (°F (°C) max. at ambient)	111.2 (44)
Non-condensing Humidity (%)	0 to 95
Ingress Protection Rating	IPX0 Indoor Only

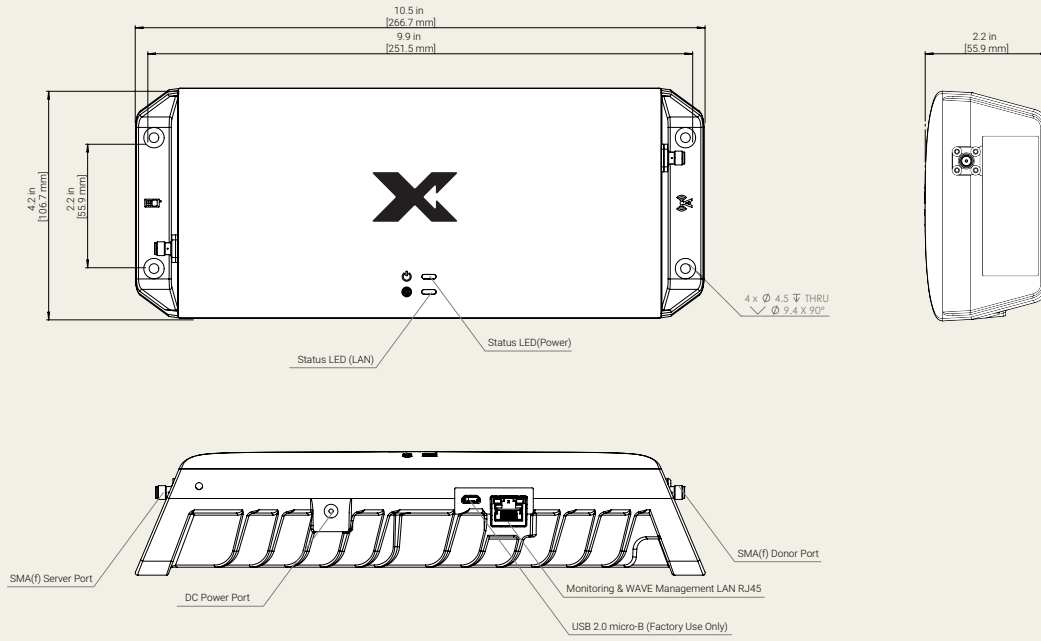
## Mechanical

Main Unit Dimensions (in (mm))	10.5 x 4.2 x 2.2 (266.7 x 106.7 x 55.9)
Main Unit Weight (lbs (kg))	2.3 (1.0)

## Ordering Information

<b>KIT#</b>	<b>G41-BE-003</b>
Region	AMER
Frequency Bands	2/4/5/12/13/25
Box Contents	Main Unit 1x AC Adapter (290N025-001) 4x Mounting Screws 4x Drywall Anchors Quick Installation Guide
Kit Shipping Dimensions (in (mm))	16.3 x 4.9 x 3.0 (413 x 124 x 76)
Kit Shipping Weight (lbs (kg))	3.3 (1.50)
Harmonized Tariff Schedule (HTS)	8517.18.00.50
Export Control Classification Number (ECCN)	EAR99

# CEL-FI GO G41 Main Unit Outline



Product specifications are subject to change without prior notification.

# DualPlus

## High-Gain 2x2 MIMO Outdoor Log Periodic Antenna

Designed by WAVEFORM in the USA

SKU: ANT-2-642-LP-SM



600 to 4200 MHz



4G and 5G Support



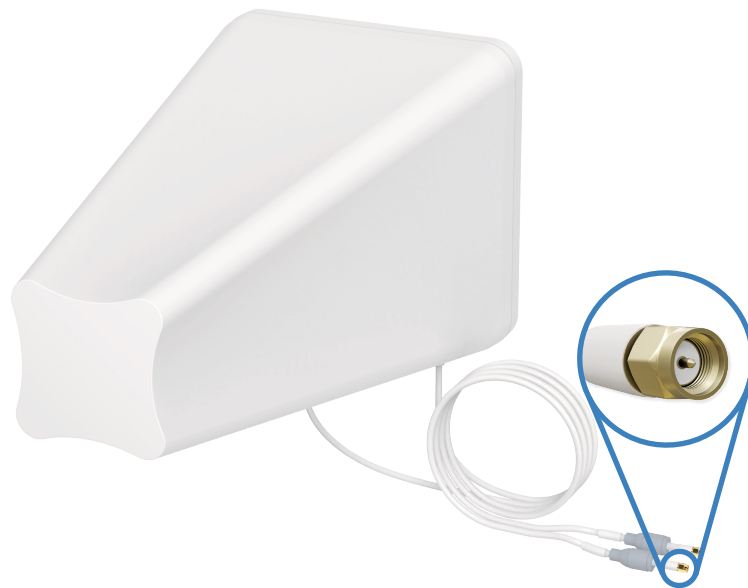
7.1 dBi Average Gain  
(8.9 dBi Peak)



Outdoor Rated



SMA-Male Connectors,  
with integrated weatherproofing



### Specifications:

#### Electrical:

	600-900 MHz	1700-2700 MHz	3500-4200 MHz
Freq. Range	600-900 MHz	1700-2700 MHz	3500-4200 MHz
Gain (Avg. Peak)	7.2 dBi ± 0.3 dB	7.3 dBi ± 0.4 dB	6.7 dBi ± 0.3 dB
Azimuth Beamwidth	74 ± 1 deg	61 ± 3 deg	65 ± 11 deg
Elevation Beamwidth	78 ± 1 deg	64 ± 3 deg	68 ± 4 deg
Front-to-Back Ratio	> 25 dB	> 30 dB	> 20 dB
VSWR	≤ 1.4	≤ 1.3	≤ 1.2
MIMO Isolation (Peak)	52.1 dB	43.3 dB	41.4 dB
Efficiency (Peak)	86 %	72 %	71 %
Input Impedance	50 Ω		
Polarization	2x2 Cross-Polarized, ± 45 deg		
Antenna Type	Directional		
Power Rating	50 W (Peak)		

#### Environmental:

Protection Class	IP65
Impact Rating	IK08
Rated Wind Velocity	225 kph (140 mph) [Sustained] 250 kph (155 mph) [Maximum]
UV Rated?	Yes
Operating Temperature	-40 to +65 deg C (-40 to +150 deg F)
Lightning Protection	DC Ground

#### Mechanical (Antenna):

Antenna Radome	Color	White (RAL 9003)
	Material	ASA (UV Stabilized)
	Dimensions (l x w x h)	44.7 x 24.0 x 24.0 cm (17.60 x 9.45 x 9.45 in)
Cable	Connector Type	SMA-Male LMR195
	Color	White
	Jacket Material	TPE
	Length	1.0 m (3.3 ft)
Cable Boot	Bending Radius	22 mm (0.9 in) [Repeat] 40 mm (1.6 in) [Install]
	Material	Silicone Rubber
Net Weight	2.1 kg (4.6 lbs)	

#### Mechanical (Assembly):

Captive Bolt	Material	304 stainless steel
	Specification	M6
Nut	Material	304 stainless steel
	Specification	M6
Flat Washer	Material	304 stainless steel
	Specification	M6
Lock Washer	Material	304 stainless steel
	Specification	M6



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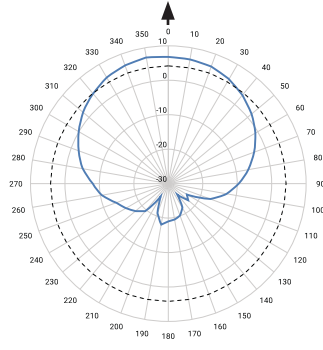
High-Gain 2x2 MIMO Outdoor Log Periodic Antenna

Designed by WAVEFORM in the USA

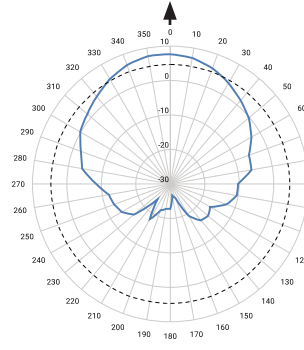
## Azimuth Plane "Top-down view"



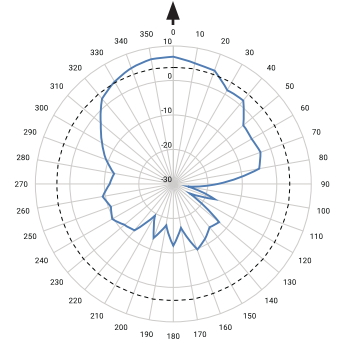
### 600-900 MHz



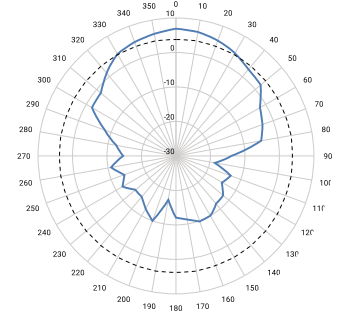
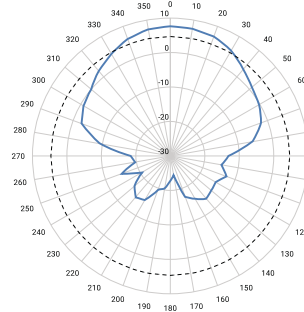
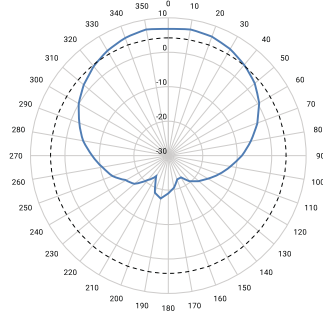
### 1700-2700 MHz



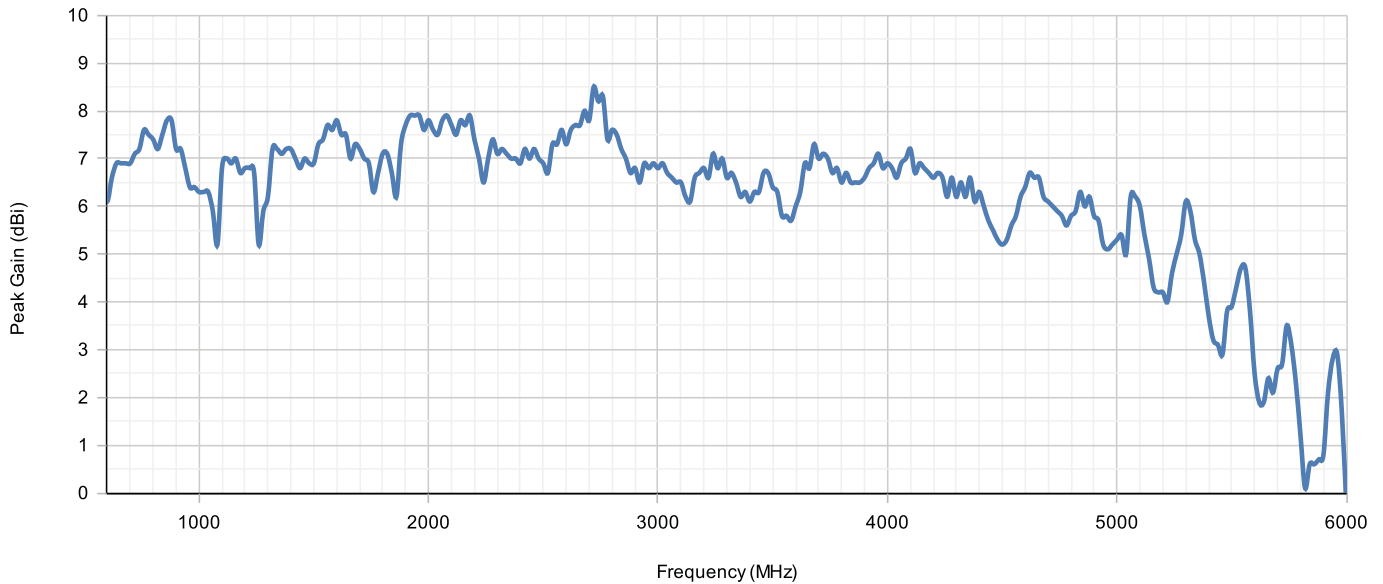
### 3500-4200 MHz



## Elevation Plane "Side-on view"



## Antenna Peak Gain (dBi) by Frequency (Mhz)



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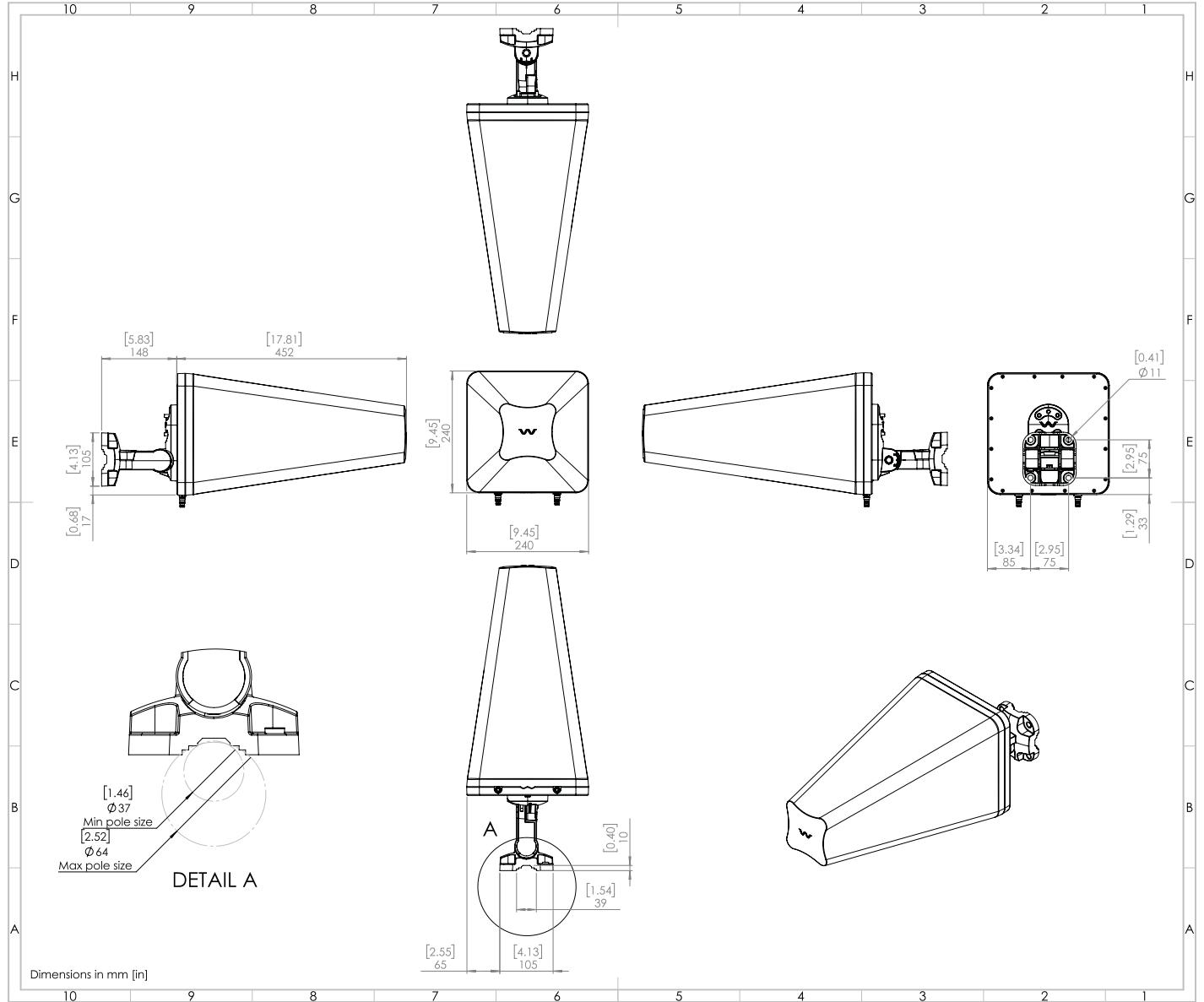
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High-Gain 2x2 MIMO Outdoor Log Periodic Antenna

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## Dimensions (with FlexMount):



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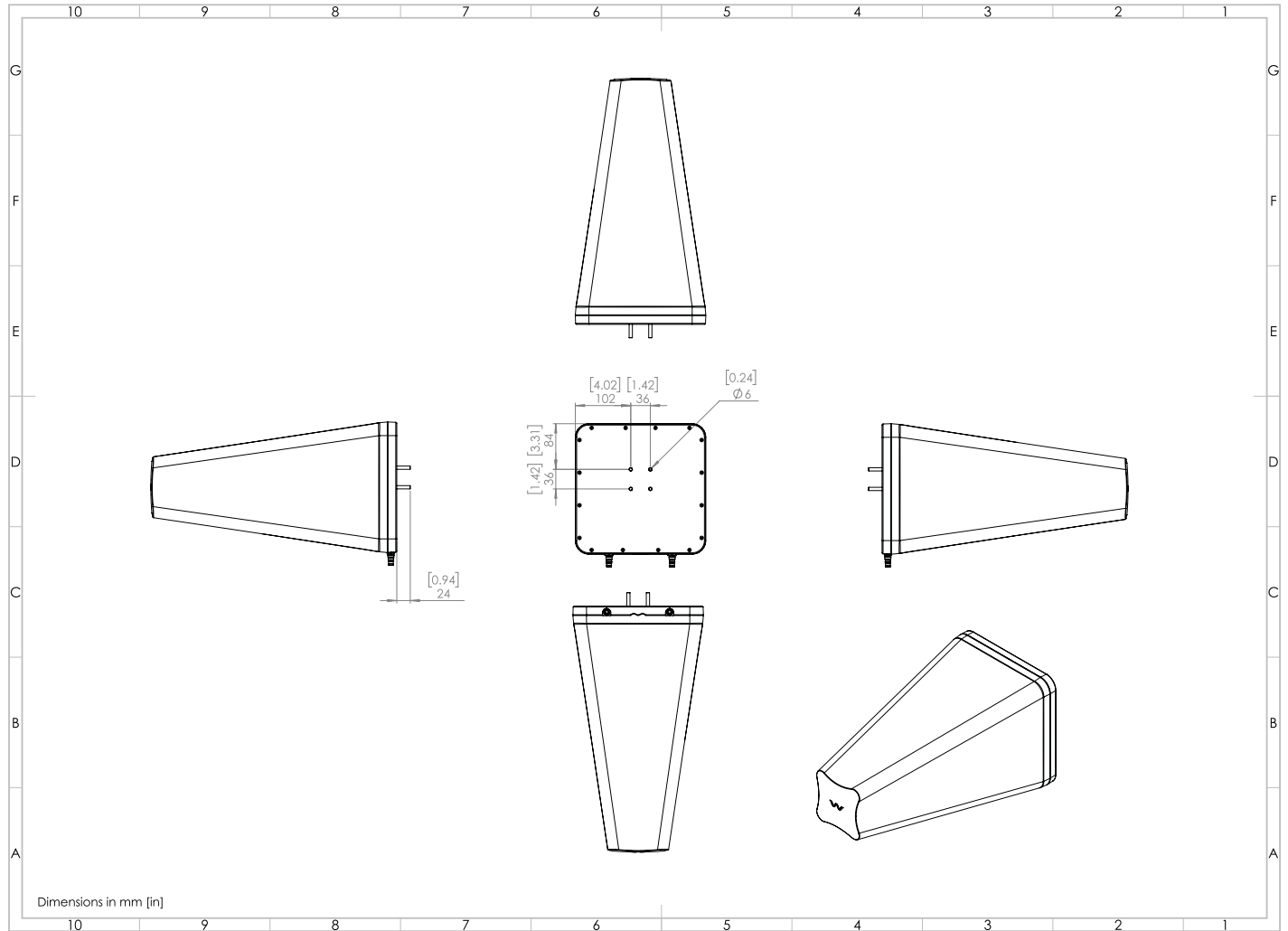
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High-Gain 2x2 MIMO Outdoor Log Periodic Antenna

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## Dimensions (Standalone):



Dimensions in mm [in]



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# 2x2 MIMO Ultra-Flat Dome Antenna

by WAVEFORM

SKU: ANT660-NF-DOME-2X2-FL

## Main Features:

- Low-PIM 2x2 MIMO Ultra-Flat Dome Antenna
- N-Female Connectors
- 50  $\Omega$
- 2- 5.5 dBi
- 600-6000 MHz



## Specifications:

### Electrical:

Frequency Range	600-698 MHz	698-960 MHz	1700-2100 MHz	3600-6000 MHz
Gain (Peak)	2 dBi $\pm$ 0.5 dB	4 dBi $\pm$ 0.5 dB	3.5 dBi $\pm$ 0.5 dB	5 dBi $\pm$ 0.5 dB
Horizontal Beamwidth	360 deg	360 deg	240 deg	240 deg
Vertical Beamwidth	195 deg	200 deg	200 deg	70 deg
Input Impedance	50 $\Omega$			
Polarization	2x2 Cross-Polarized, $\pm$ 45 deg			
MIMO Isolation	>19 dB	>21 dB	>23 dB	>23 dB
Power Rating (Peak)	50 W			

### Mechanical:

Type	Omnidirectional
Radome Color	White
Radome Material	ABS (UV Stabilized)
Dimensions	215 mm $\varnothing$ x 47 mm
Connector Type	N-Female
Cable Type	RG58
Cable Length	30 cm (12 in)
Net Weight	0.45 kg
Mounting Type	Ceiling
Mounting Material	PVC Plastic

### Environmental:

Operating Temperature	-40 to +65 deg C
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# 2x2 MIMO Ultra-Flat Dome Antenna

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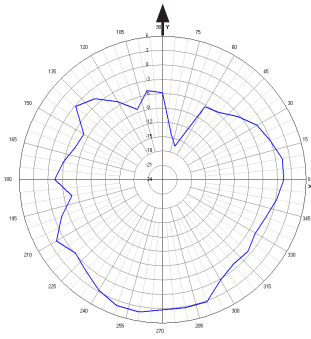
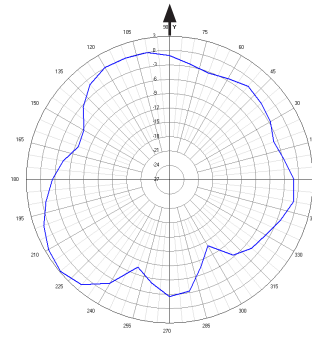
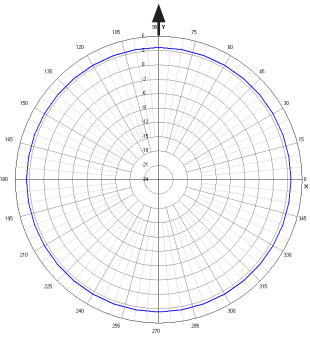
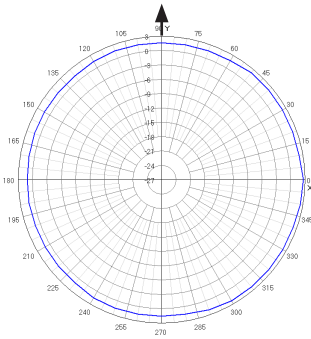
700 MHz

850 MHz

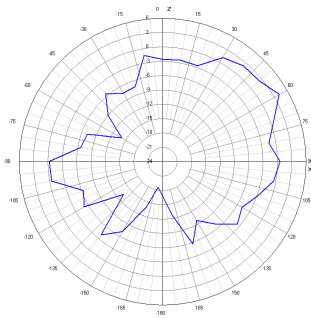
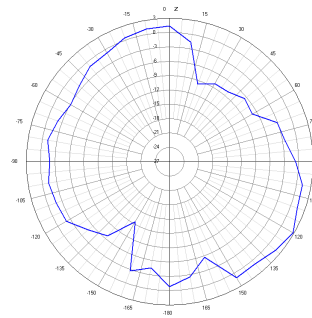
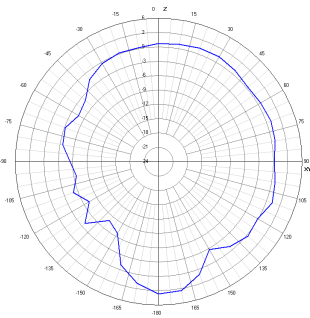
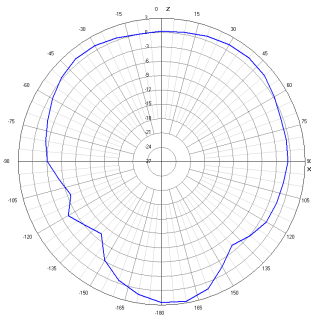
1900 MHz

6000 MHz

Vertical Plane  
"Top-down view"



Horizontal Plane  
"Head-on view"



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# UltraPole: The Universal Antenna Mount (Base Kit)

by WAVEFORM

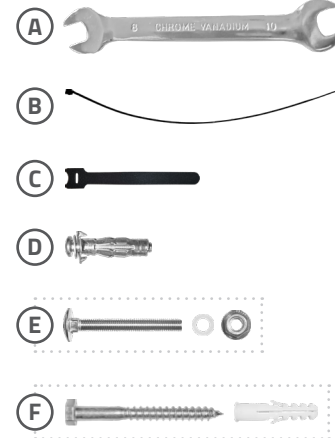
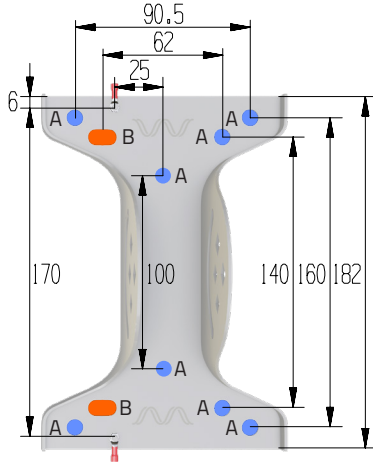
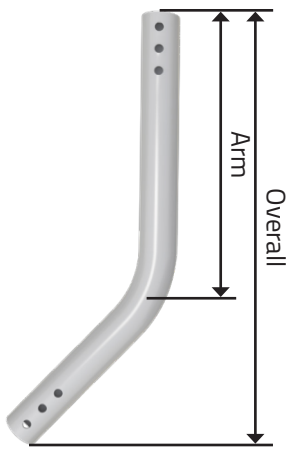
## SKU: WF-UPM-Base

### Main Features:

- Made of galvanized carbon steel for corrosion protection
- 90° of free pivoting with 3 lockable pivot positions (0°, 45°, 90°)
- Integrated ground terminals
- Easy to install
- Net weight: 1.2 kg (2.7 lbs)



### Specifications:



#### J-Pole:

Color	Industrial Grey (RAL7035)
Material	Galvanized Carbon Steel
Thickness	2.0 mm (0.1 in.)
Diameter	38 mm (1.5 in.) O.D. 34 mm (1.4 in.) I.D.
Overall Length	42.0 cm (16.5 inch)
Arm Length	26.7 cm (10.5 inch)
Coating	Matte Powder Coat
Weight	0.8 kg (1.8 lbs)
Quantity	1

#### Footpad:

Color	Industrial Grey (RAL7035)
Material	Galvanized Carbon Steel
Thickness	2.1 mm (0.1 in.)
Footpad	18.2 x 12.5 x 7.7 cm (7.2 x 4.9 x 3.0 in.)
Hole A	Ø8.3 mm (Ø0.33 in.)
Hole B	14.6 x 8.3 mm (0.6 x 0.3 in.)
Ground Terminal	M3 x 10.0 mm
Coating	Matte Powder Coat
Weight	0.4 kg (0.9 lbs)
Quantity	1

#### Mounting Tools:

#	Part Name	Material	Dimensions	Qua.
A	Wrench	Steel	Size-8/10 mm	1
B	Zip Tie	Plastic	250 mm	4
C	Velcro Tie	Plastic	150 x 12 x 1 mm	5
D	Expansion Bolt	Steel	M6 x 52 mm	5*
	Carriage Bolt	Steel	M6 x 55 mm	
E	Washer	Plastic	M6	4*
	Flange Nut	Steel	M6	
F	Hex-Head Wood Screw	Steel	M6 x 60 mm	5*
	Anchor	Plastic	Ø10 x 50 mm	

\*Includes 1x spare

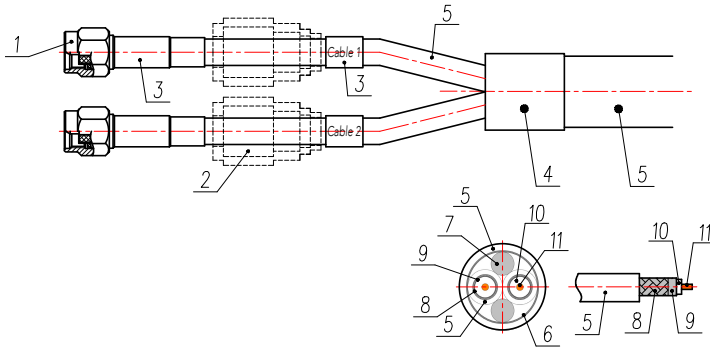
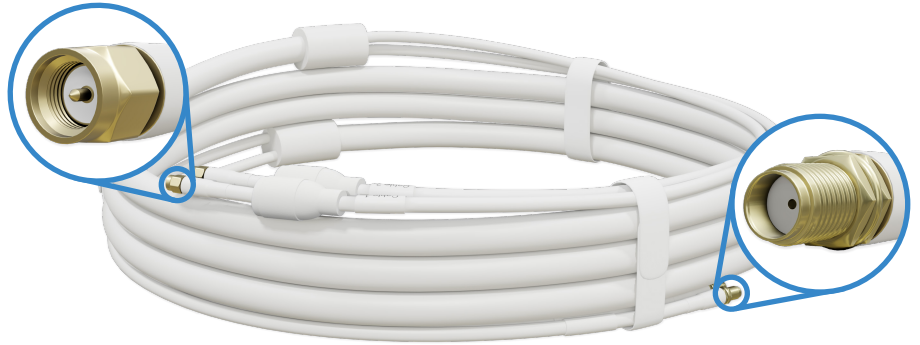
# UltraFlex-Twin

Designed by WAVEFORM in the USA

SKU: 195T-SFM-xx

## Features:

- Two SMA-Female to SMA-Male ultraflex LMR195 cables grouped into one highly flexible cable.
- Integrated Weatherproof boots offer a fortified outdoor SMA connection.
- 0 MHz to 6000 MHz



#	Description	Material
1	SMA Body	Gold-Plated Brass
2	Weatherproof Boot	Silicone Rubber
3	Heatshrink	PVC
4	Cable Molding	Solid TPE
5	Cable Jacket (Group & Individ.)	TPE
6	Inter-cable Sheath	Clear PET
7	Inter-cable Filler	PP Lattice
8	Outer Conductor (#1)	Tinned Copper Braid
9	Outer Conductor (#2)	Bonded Aluminum Foil
10	Dielectric	PE Foam
11	Inner Conductor	Bare Copper

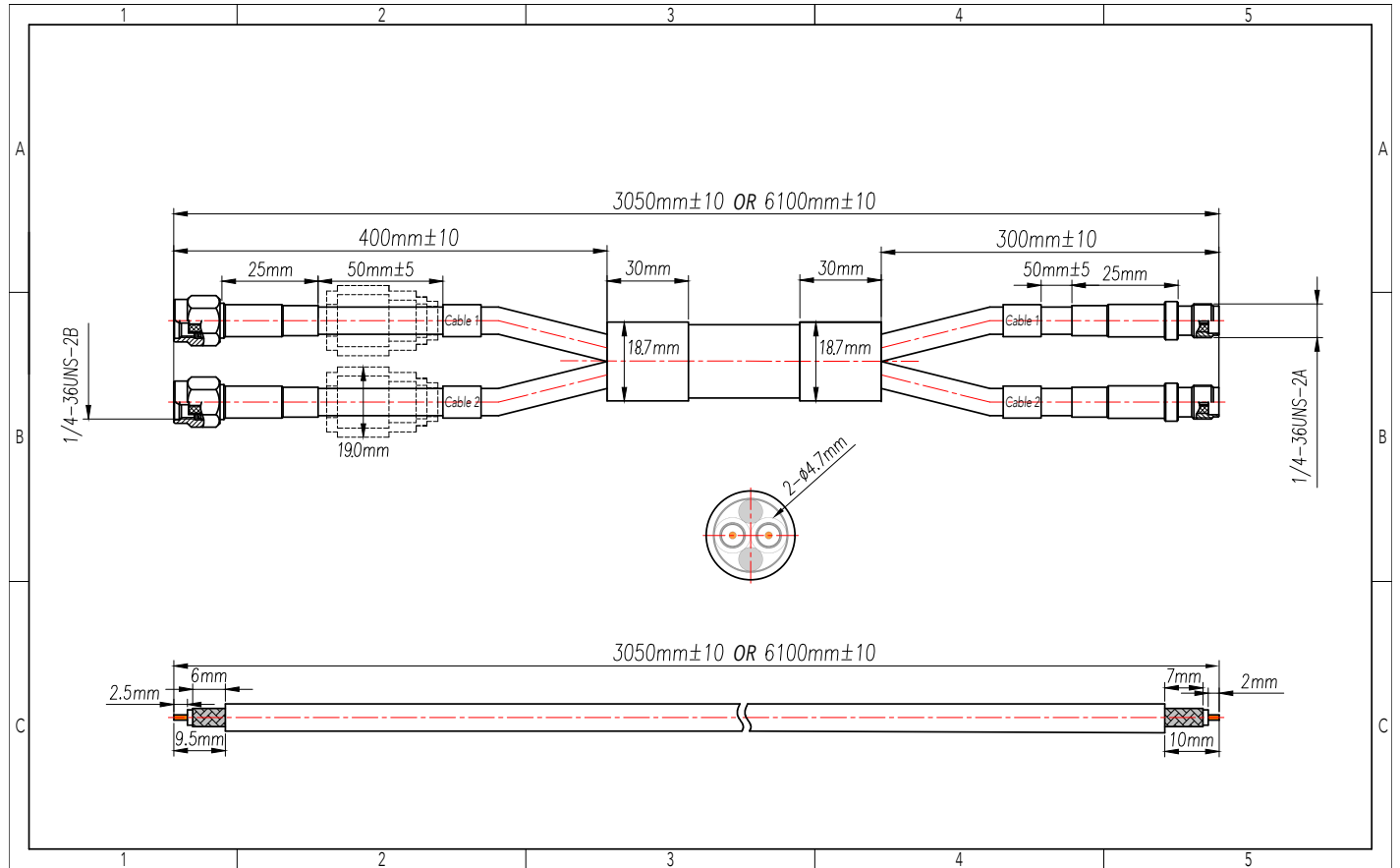
## Specifications:

Electrical:		RF Attenuation (per 10 ft):		Mechanical:		
Input Impedance	50 $\Omega$	600 MHz	0.9 dB	Cable (Whole)	Jacket Color	White (RAL 9016)
Frequency Range	0 - 6000 MHz	900 MHz	1.2 dB		Type	LMR195
VSWR	$\leq 1.5$	1800 MHz	1.6 dB		Length	3.05 m (10 ft) 6.10 m (20 ft)
Capacitance	78 $\pm$ 5 pF/m	2100 MHz	1.8 dB		Diameter	11.6 mm (0.46 in) [Group] 18.7 mm (0.74 in) [Mold] 4.7 mm (0.19 in) [Indiv.]
Velocity	83 %	2500 MHz	2.0 dB			Bending Radius
Shielding	> 90 dB	3000 MHz	2.1 dB	Male Cable End	Connector Type	SMA-Male
Voltage	1000 V max (Working) 1500 V rms (Withstand)	4000 MHz	2.3 dB		Connector Diam.	7.9 mm (0.31 in)
	Contact Resist. (Cables)	$\leq 24.9 \Omega$ /km (Center) $\leq 16.1 \Omega$ /km (Outer)	5000 MHz		2.8 dB	Cable Length
Contact Resist. (Connectors)	$\leq 3.0 \text{ m}\Omega$ (Center) $\leq 2.5 \text{ m}\Omega$ (Outer)	6000 MHz	3.0 dB	Female Cable End	Connector Type	SMA-Female
	Insulation Resist.	$\geq 1000 \text{ m}\Omega$	<b>Environmental:</b> Protection Class IP66 (w/ Boots) Burial Rated? No UV Rated? Yes Operating Temperature -40 to +85 deg C (-40 to +185 deg F)		Connector Diam.	7.0 mm (0.28 in)
Power Rating	2.5 kW (Peak)	Net Weight			0.35 kg (0.76 lbs) [10 ft] 0.70 kg (1.54 lbs) [20 ft]	

# UltraFlex-Twin

Designed by WAVEFORM in the USA

## Dimensions:



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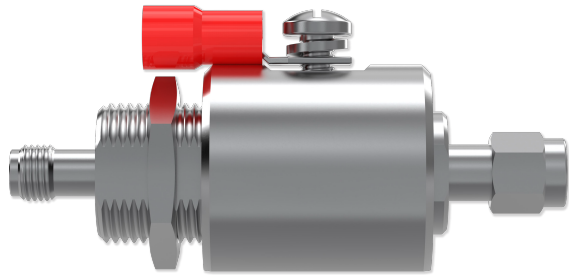
# SMA Lightning Arrester Kit

Designed by WAVEFORM in the USA

## SKU: WF-LSP-SFM

### Features:

- SMA-Male to SMA-Female bulkhead lightning arrester.
- 0-6000 MHz frequency support
- 50  $\Omega$  impedance
- 1 m (5 ft) 10 AWG ground wire with ring terminals
- 15 cm (6 in) weatherproofing tape



## Lightning Arrester Specifications:

### Electrical:

Frequency Range	0 - 6000 MHz
VSWR (DC)	$\leq 1.25$
Insertion Loss	$\leq 0.25$ dB
Input Impedance	50 $\Omega$
Insulation Resistance	$\geq 5000$ M $\Omega$
Transmission Power	200 W
Gas Tube Breakdown Voltage (DC)	90 V
Withstanding Voltage (50 Hz, at sea level)	$\geq 2500$ V RMS
Working Voltage (50 Hz, at sea level)	$\leq 1000$ V RMS
Maximum Impulse Discharge Current (8/20 $\mu$ s)	20 KA 2000 J
Contact Resistance (Center Contact)	$\leq 0.4$ m $\Omega$
Contact Resistance (Outer Contact)	$\leq 0.2$ m $\Omega$

### Mechanical:

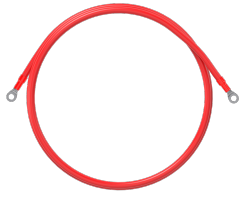
Dimensions	$\varnothing 7.8 \times 6.3$ cm ( $\varnothing 3.1 \times 2.5$ in)
Connector A Type	SMA-Male
Connector B Type	SMA-Female
Connector Body	Nickel Plated Brass
Bulkhead Spec	5/8-24UNEF-2A
Body	Nickel Plated Brass
Pin Material	Gold Plated Brass
O-Ring Material	Rubber
Ground Connection	By Feedthrough or Screw Terminal
Net Weight	0.10 kg (3.55 oz)

### Environmental & Regulatory:

Protection Class	IP67
Operating Temperature	-55 to +155 deg C
NFPA Rated?	No
ROHS Compliant?	Yes

# SMA Lightning Arrester Kit

Designed by WAVEFORM in the USA



## Grounding Cable Specifications:

Electrical:		Mechanical:	
Voltage Rating (AC)	600 V	Jacket Color	Red
		Jacket Material	PVC
		Conductor Material	Stranded Copper
		Cable Diameter	6 mm (0.24 in)
		Cable Gauge	10 AWG
		Cable Length	1.5 m (5 ft)
		Connector Type	Ring Terminal
		Connector Hole Diam.	4.3 mm (0.17 in)
		Net Weight	0.10 kg (3.55 oz)

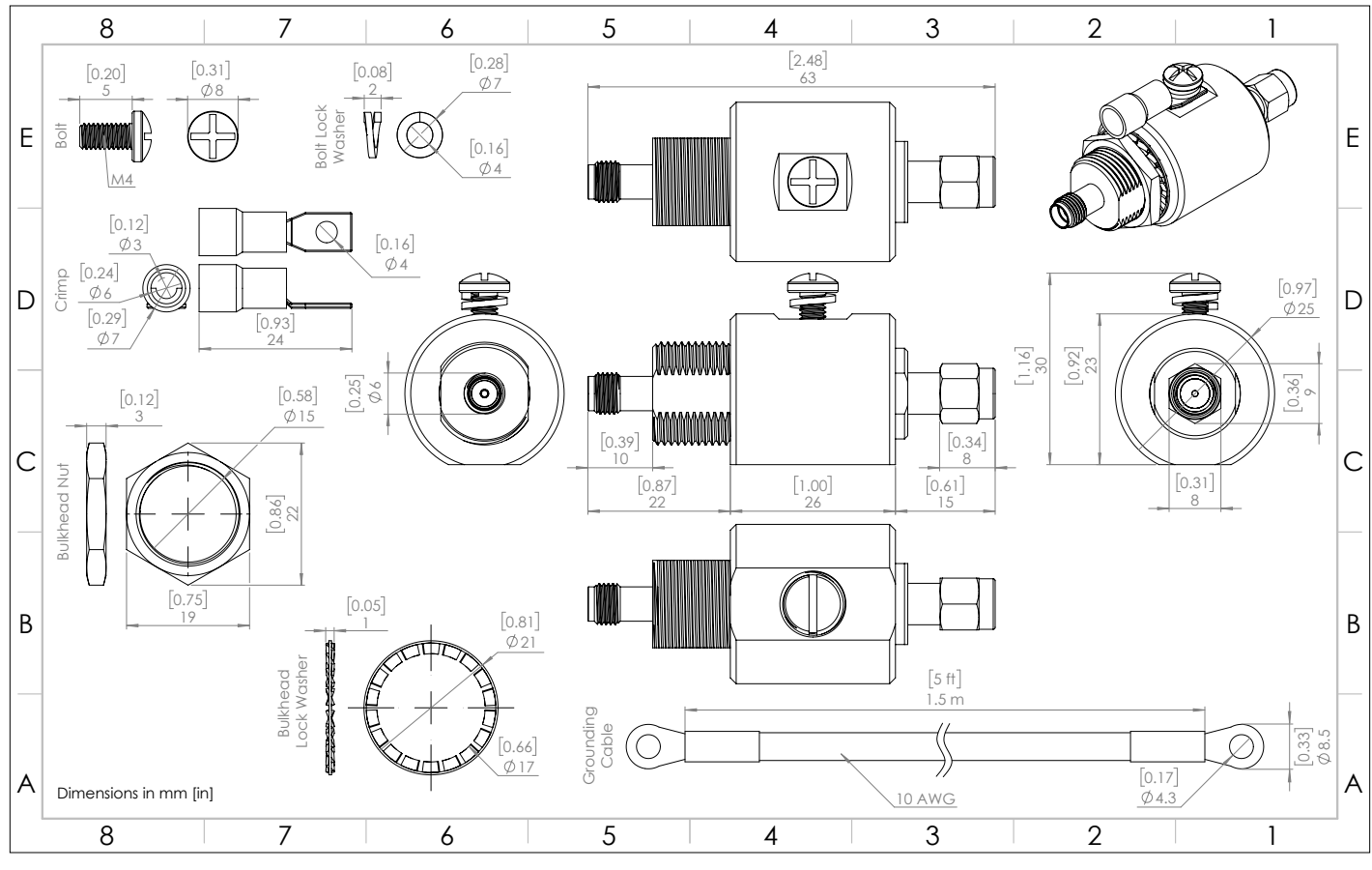
## Environmental & Regulatory:

UV Rated?	No
Operating Temp.	-55 to +155 deg C (-67 to 311 deg F)
NFPA Rated?	No

## Weatherproofing Tape Specifications:

Color	Clear
Material	Self-fusing Silicone Rubber
Dimensions (l x w x thk)	150 x 25 x 0.5 mm (6.0 x 1.0 x 0.02 in)
Tensile Strength	>2.51 Mpa (364 psi)
Heat Resistance	100 deg C (212 deg F) for 168 hrs
Operating Temp.	-50 to +300 deg C (-58 to +572 deg F)
Withstanding Voltage	35 kV
Net Weight	0.15 kg (5.29 oz)

## Dimensions:



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# SMA-Male to N-Female Pigtail Adapter

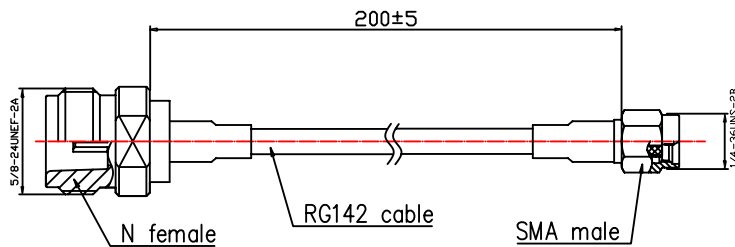
by WAVEFORM

**SKU: PTA-SMAM-NF**



## Main Features:

- SMA-Male to N-Female connector
- 0-6000 MHz
- 50  $\Omega$
- 4.95 mm diam. cabling



Section Description	Material	Plating
SMA Body	Brass	Gold/Nickel
N Body	Brass	Gold/Nickel
Crimping Suite	Copper Alloy	Nickel
Inner Conductor	Brass	Gold/Silver
Jacket	FEP	
Gasket	Silicone Rubber	
Dielectric	PTFE	

## Specifications:

Electrical:		Mechanical:		Environmental:	
Input Impedance	50 $\Omega$	Jacket Color	Tan	Burial Rated?	No
Frequency Range	600 - 6000 MHz	Cable Type	RG142	UV Rated?	No
VSWR	$\leq 1.2$	Cable Diameter	4.95 mm	Operating Temperature	-65 to +165 deg C
Capacitance	< 29.4 pF/m	Cable Length	20 cm		
Velocity	70 %	Bending Radius	25.4 mm		
Shielding	> 88 dB	Connector A Type	SMA-Male		
Power Rating (Peak)	5 kW	Connector A Angle	Straight		
Insertion Loss (Typical)	< 0.7 dB @ 6000 MHz	Connector A Diameter	7.9 mm		
		Connector B Type	N-Female		
		Connector B Angle	Straight		
		Connector B Diameter	15.7 mm		
		Net Weight	29 g		



**WAVEFORM**

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www.waveform.com  
1-800-761-3041

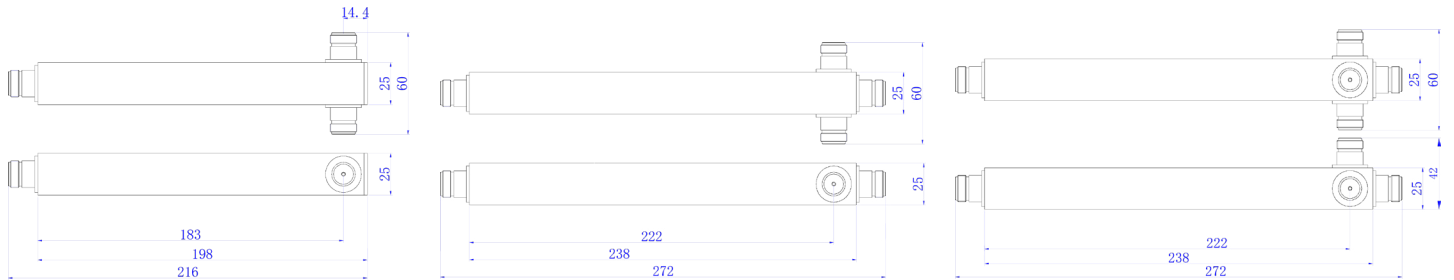
# N-Female Signal Splitter (2-Way, 3-Way, 4-Way)

by WAVEFORM

**SKU: SPLT640NF-x**

## Main Features:

- 600-4000 MHz
- 50  $\Omega$
- 300 W Power Handling



## Specifications:

### Electrical:

SKU	SPLT640NF-2	SPLT640NF-3	SPLT640NF-4
# of Splits	2-Way	3-Way	4-Way
Frequency Range	600-4000 MHz		
Input Impedance	50 $\Omega$		
Insertion Loss (Typical)	$\leq 0.3$ dB		
Distribution Loss	3.0 dB	4.8 dB	6.0 dB
VSWR	$\leq 1.25$		
PIM (IM3)	$\leq -154$ dBc @ +43 dBm*2		
Power Rating (Average)	300 W		

### Environmental:

Applied Environment	Indoor / Outdoor
Protection Class	IP65
Relative Humidity	5 to 95 %
Operating Temperature	-25 to +70 deg C

### Mechanical:

SKU	SPLT640NF-2	SPLT640NF-3	SPLT640NF-4
Connector Type	N-Female		
Connector Material	Copper		
Cavity Color	Black		
Cavity Material	Silver Plated Aluminum		
Inner Conductor Material	Silver Plated Copper		
Dimensions	216 x 60 x 25 mm	272 x 60 x 25 mm	272 x 60 x 42 mm
Net Weight	0.34 kg	0.43 kg	0.48 kg



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# SMA-Male to N-Male Pigtail Adapter

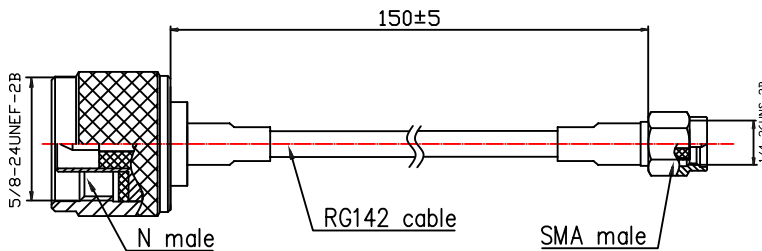
by WAVEFORM

SKU: PTA-SMAM-NM



## Main Features:

- SMA-Male to N-Male connector
- 0-6000 MHz
- 50  $\Omega$
- 4.95 mm diam. cabling



Section Description	Material	Plating
SMA Body	Brass	Gold/Nickel
N Body	Brass	Gold/Nickel
Crimping Suite	Copper Alloy	Nickel
Inner Conductor	Brass	Gold/Silver
Jacket	FEP	
Gasket	Silicone Rubber	
Dielectric	PTFE	

## Specifications:

Electrical:		Mechanical:		Environmental:	
Input Impedance	50 $\Omega$	Jacket Color	Tan	Burial Rated?	No
Frequency Range	600 - 6000 MHz	Cable Type	RG142	UV Rated?	No
VSWR	$\leq 1.2$	Cable Diameter	4.95 mm	Operating Temperature	-65 to +165 deg C
Capacitance	< 29.4 pF/m	Cable Length	15 cm		
Velocity	70 %	Bending Radius	25.4 mm		
Shielding	> 88 dB	Connector A Type	SMA-Male		
Power Rating (Peak)	5 kW	Connector A Angle	Straight		
Insertion Loss (Typical)	< 0.7 dB @ 6000 MHz	Connector A Diameter	7.9 mm		
		Connector B Type	N-Male		
		Connector B Angle	Straight		
		Connector B Diameter	20.3 mm		
		Net Weight	34 g		



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Santa Ana, CA 92704

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