



RF Weatherproofing

Installs in Seconds, Lasts a Lifetime

Slide Lock



Silicone Cold Shrink



Weatherproof Boots

Optimizing Networks Through  
Cable Assembly, Protection, & Identification

# Cable Assembly

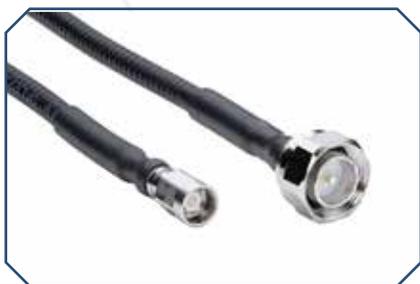
High Performance Cables Perfectly Matched with our Industry Leading Weatherproofing

All Gamma RF Cable Assemblies come with your choice of



## Low PIM Cables

The highest performing cables in 1/4" or 1/2" superflex, or 1/2" standard



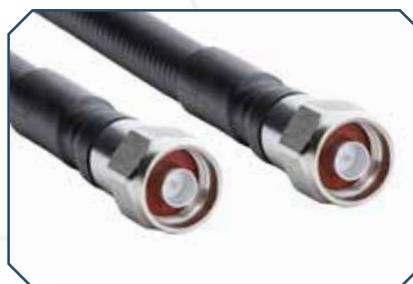
NEX10 to 4.3-10



4.3-10 to 4.3-10



4.3-10 to 7/16 DIN



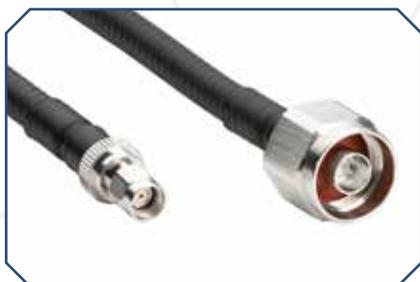
Type N to Type N

## Rugged, Ultra Low Loss Cables

1/4" superflex cable that delivers incredible low loss results



RP-SMA to RP-SMA



RP-SMA to Type N



Type N to Type N

## Custom RF Cables

### 1. Choose Cable Type



### 2. Choose Connectors



### 3. Choose Cable Length



### 4. Choose Weatherproofing



## Cable by the Spool



# Weatherproof Boot

## Slide Up to Install, Down to Uninstall

Our RF Weatherproof Boots are the fastest and easiest install/uninstall available. Make sure the boots are on the cable before termination and the boots will slide up and over the connection with ease while creating an IP68 rated, watertight seal.

Made from silicone, our RF weatherproof boots come in an amazing amount of variations all of which protect against water ingress, UV, Ozone, and fungus.



JMA Compatible



### 7/16 DIN Boots

- 7/16 to 1/2" Standard\*
- 7/16 to 1/2" Superflex
- 7/16 to 1/4" Coax
- Right Angle to 1/2" Standard
- Right Angle to 1/2" Superflex\*



### 4.3-10 Boots

- 4.3-10 to 1/2" Standard\*
- 4.3-10 to 1/2" Superflex
- 4.3-10 to 1/4" Coax
- Right Angle to 1/2" Standard\*
- Right Angle to 1/4" Coax



### Type N Boots

- Type N to 1/2" Superflex
- Type N to 1/4" Superflex



### NEX10 & F Connector

7/16 DIN to 1/2" Standard



### 2.2-5 & BNC

7/16 DIN to 1/2" Standard

\*Works with JMA Connectors

# Suppressor Boot

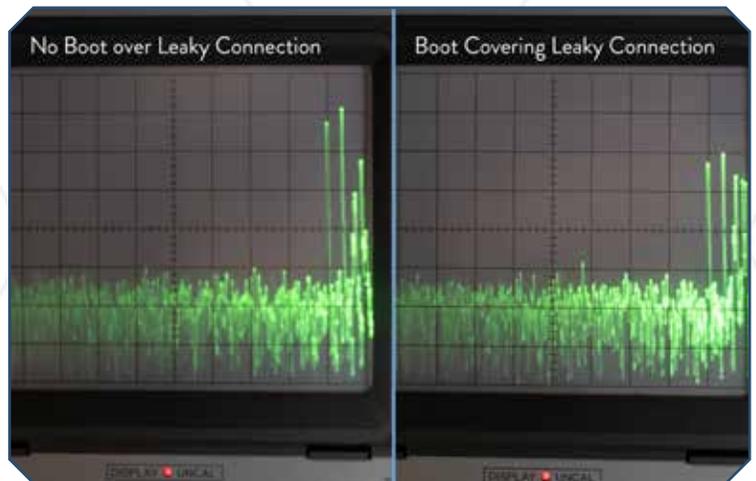


## Reduce RF Interference while getting IP68 Level Weather Protection

Leaky connectors are known to be an RF egress pain point, often leaking out RF interference that makes its way into antennas, causing PIM problems. Our Suppressor Boot suppresses, (or attenuates), RF egress coming from leaky connectors, keeping interference to a minimum. The boot is made from a unique, silicone rubber composite material that allows it to accomplish this while still maintaining the IP68 levels of protection our customers have come to expect from our weatherproofing products.

## Reduce Interference to $\frac{1}{10}$ of its Original Strength

The Suppressor Boot was designed to contain any RF egress that may come from a leaky connector and our tests show that it effectively reduced/attenuated by at least 10 dB. In other words, it reduced RF signal coming from a leaky connector to 1/10 of its original strength.



## Available in 4 Sizes

NEX10 to  $\frac{1}{4}$ " Coax  
 4.3-10 to  $\frac{1}{4}$ " Coax  
 4.3-10 to  $\frac{1}{2}$ " Standard  
 7/16 DIN to  $\frac{1}{2}$ " Standard

# Silicone Cold Shrink

## Set it and Forget It

When you don't want to worry you get Gamma Cold Shrink. Silicone Cold Shrink is held in place by an inner plastic rip-cord that, once removed, allows the Cold Shrink to reduce to a size often 5-6 times smaller than where it began. It installs in seconds and is guaranteed for the lifetime of the cable.

Cold Shrink has no adhesive, stands up to extreme temperatures, is IP68 rated and protects against water ingress, UV, Ozone, and fungus.



AT&T Approved

	Part Number	Typical RF Applications	Connector Size	Cable Type	Cable O.D.
	SDL-DC-152	Power Cable	32mm/1.26"	Power Cable	10.5mm/.42"
	SDL-1A-125	7/16 DIN 4.3-10	36mm/1.44"	1/2" Coax	12mm/.472"
	SDL-CX-125	4.3-10	24mm/0.95"	1/4" Coax	6.4mm/.25"
	SDL-TN-90	Type N	19mm/0.75"	LMR 400	10mm/.40"
	SDL-TNS-65	NEX10® 2.2-5 Type N	19mm/0.75"	1/4" Coax	6.4mm/.25"
	SDL-SMA-60	RPSMA	8mm/0.32"	LMR 195	4.9mm/.195"

## Clear Cold Shrink



## See the Watertight Seal

Our clear cold shrink tubing makes it easy to see what's happening even after you've installed it. You can feel comfortable as you'll be able to see your cable and know that it has an IP68 rated weather seal.

Our Clear Silicone Cold Shrink was specifically designed with 2-6 and 8-10 AWG Wires in mind.



2 AWG Wire



6 AWG Wire



10 AWG Wire

## Why Silicone Cold Shrink?



Make sure you're buying the right type of Cold Shrink for the job. Scan the QR Code to learn the differences between Silicone and EPDM Cold Shrink, including:

- Silicone Cold Shrink's extreme temperature resistance (-60°C/-76°F to 230°C/446°F)
- Silicone Cold Shrink's improved shrink ratio (up to 5:1) that results in an incredible, long-lasting, weatherproof grip on the connection

## Tower Utility Knife

### Remove Cold Shrink and More without Damaging your Cable

Tired of using a box cutter? Our Tower Utility Knife, (or T.U.K.), helps eliminate the issues with using conventional blades to remove cold shrink tubing from cables. The Tower Utility Knife's unique, 2-blade design protects the cable, and reduces the risk of being cut, all while making it faster and easier to remove the cold shrink tubing from the cable.

Patent pending.



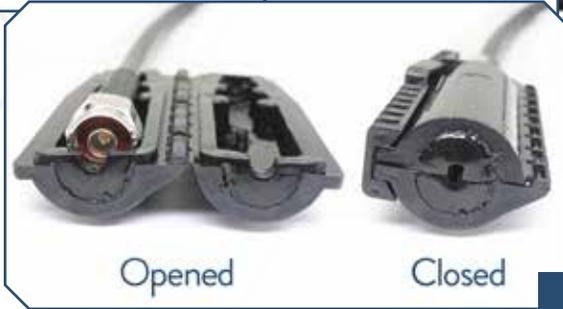
# Slide Lock



## Lock out the Weather

Re-visit connections with the reusable, IP68 rated Slide Lock. The easy squeeze and slide method makes installation and uninstallation a matter of seconds.

Made with an outer ABS plastic shell and a silicone gel interior that protects against water ingress, UV, Ozone and fungus.



7/16 DIN Connector to 1/2 Inch Standard Cable

4.3-10 Connector to 1/2 Inch Standard Cable

Type N Connector to 1/2 Inch Standard Cable

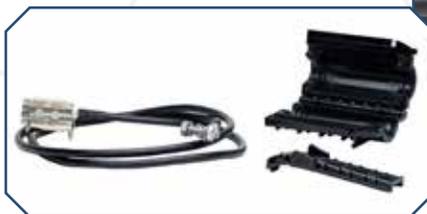
**AT&T Approved**

# Grounding Kit

## Upgrade from "tape 'n butyl"

Our 7/8" and 1/2" accessible grounding kits are a massive upgrade from the typical "tape 'n butyl" method of grounding and weatherproofing cables. Unlike tape and butyl these kits are fast and easy to install while also providing re-accessibility.

Our Grounding Kits have a grounding wire that fastens to the cable and an ABS plastic enclosure that secures around both the cable and grounding wire. Like our Slide Locks, the enclosure has a silicone gel interior to provide incredible weather protection, and a simple slide locking mechanism that makes it easy to re-access time and time again.



# Magic Tape



## The Cold Shrink of Tape

Self-amalgamating tape that adheres to itself and has no adhesive has earned this tape the name of “Magic Tape.” Magic tape is ideal for those difficult to weatherproof connections and can be used as a cable jacket repair tool.

Protects against moisture, UV, Ozone, dust, and fungus.



## Test & Measurement



# 5G/Small Cell Adapter Kit

Our low PIM, 5G / Small cell adapter kit is the perfect solution for the new generation of cellular building and testing. The kit includes six total adapters, (4 different types), all of which are made from the highest quality metals to ensure that your RF testing is accurate every time.

To ensure that the adapters are well taken care of the adapter kit comes with an IP67 rated carrying case. The case is made of a rugged ABS plastic with an inner foam that has been laser cut to perfectly and snugly secure each adapter.



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# Cable Protection > Heat Shrink Tubing

## 2:1 Shrink Ratio



Gamma Heat Shrink Tubing is largely made of Polyolefin and comes in shrink ratios ranging from 2:1 up to 6:1.

Many Heat Shrink also have unique properties like Adhesive Lining (AL), or heavier walls (HW).

## 3:1 Shrink Ratio



## 4:1 Shrink Ratio



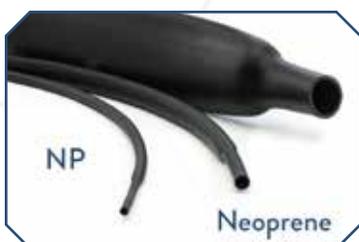
## 6:1 Shrink Ratio



Gamma's Specialty Heat Shrink Tubing has unique properties like being Gas and Diesel Resistant (GDR).

Specialty Heat Shrink tubing is not typically made from Polyolefin and often the material is denoted in the name, (i.e. Neoprene (NP) or Viton (VIT)).

## Specialty Heat Shrink Tubing



# Cable Identification

Heat Shrink Tubing Printers and Solutions that make Cable Identification Easy



## Gamma Bolt

### Low to Medium Quantity Heat Shrink Printer

The Gamma Bolt is a thermal transfer printer that prints on and cuts heat shrink tubing, easily producing prints ranging from a few prints to a few thousand prints per day.

The Gamma Bolt will print on and cut heat shrink in sizes ranging from  $\frac{1}{16}$ " up to  $2\frac{1}{2}$ ", and at lengths from  $\frac{1}{2}$ " up to about any length you want. It comes with *Gamma Label*, our proprietary software that makes designing and printing labels on heat shrink easy.



All of Gamma's Thermal Transfer Printers are designed to work with GMT-321-FLT Heat Shrink Tubing.

GMT-321-FLT is a flat, 3:1 heat shrink tubing that is designed to feed through our printers with ease.



## Gamma Mark III Plus

### High Quantity Heat Shrink Tubing Printer

The Gamma Mark III Plus is our workhorse, high quantity thermal transfer printer that can handle thousands of prints per day, well beyond 10,000 prints/day if necessary. It can print, cut, or perforate on heat shrink in sizes ranging from  $\frac{1}{16}$ " up to  $2\frac{1}{2}$ ", and can cut or perforate in lengths as small as  $\frac{1}{4}$ " up to whatever length you choose. More impressively, it can print up to 11 inches/second and comes with *Gamma Label*, our proprietary software that makes designing and printing labels for heat shrink easy.



The Mark III Plus is *the* heat shrink labeling workhorse that easily handles heavy manufacturing and assembly house workloads.

[www.GammaElectronics.net](http://www.GammaElectronics.net)

[Sales@GammaElectronics.net](mailto:Sales@GammaElectronics.net)

(909) 860-1479



## Try Gamma RF Weatherproofing for Free

Scan the QR Code or visit

[GammaElectronics.net/RF-Weatherproofing](http://GammaElectronics.net/RF-Weatherproofing)

to request a free sample of your choosing:

Gamma Cold Shrink, Weatherproof Boot, Slide Lock, or Magic Tape.

Find an authorized reseller at:

[GammaElectronics.net/WhereToBuy](http://GammaElectronics.net/WhereToBuy)