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DAS Cable Solution

Cable Protection

Cable Identification



Multi-Cable Stripping Tool



Silicone Cold Shrink



Compression Connectors

Find an authorized reseller at:  
[GammaElectronics.net/WhereToBuy](http://GammaElectronics.net/WhereToBuy)

# DAS Cable Solutions

Products designed for use with Distributed Antenna Systems, (or DAS), with a focus on public safety DAS products.

# Cable Assembly

High Performance Cables Perfectly Matched with our Industry Leading Weatherproof

## RF Compression Connectors

Coax Connectors You Can Easily Install in the Field



Female 4.3-10



Female 4.3-10



Male 4.3-10



Male Type N

## Plenum Corrugated Coaxial Cable

Aluminum and Copper-shielded, air-core coaxial cables that are perfect for public safety DAS.



Copper Shielded  
Jacket Color: Red & Blue



Aluminum Shielded  
Jacket Color: Red, White, Blue, & Gray

## Multi-Cable Stripping Tool

Strip a Variety of Coaxial Cables with a Single Tool



Multi-Cable Stripping Tool

## Bulk RF Coaxial Cable

Low PIM, Low Loss, Standard & Superflex



1/2 Inch Standard – Low PIM,  
Bulk RF Coaxial Cable



1/2 Inch Superflex – Low PIM,  
Bulk RF Coaxial Cable

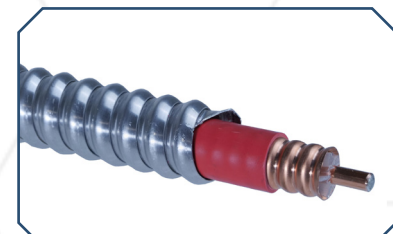


1/4 Inch Superflex – Low PIM,  
Bulk RF Coaxial Cable

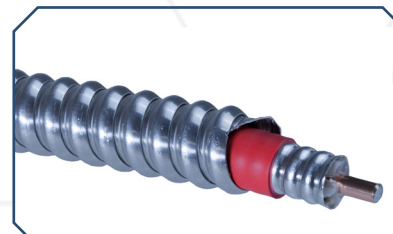
## Armored Cable



Outdoor Annular Cable



Indoor Copper Shielded



Indoor Aluminum Shielded

## 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



TFT-401 & TFT-402

## 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

All Gamma RF Cable Assemblies come with your choice of

Silicone Cold Shrink

Weatherproof Boots



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High Performance Cables Perfectly Matched with our Industry Leading Weatherproof

# Cable Protection

RF Weatherproofing that installs in seconds and lasts a lifetime

## RG 142 Coaxial Cable

High Performance, 50 Ohm Coax Cables for Telecom and Fixed Wireless Applications



Type N Male to Type N Male



Type N Male to Type N Female



4.3-10 Male to Type N Female

## Low Loss, RF Coaxial Cables

50 Ohm Low Loss Coax Cables for Telecom and Fixed Wireless Applications



GMR 195 - Low Loss, RF Coaxial Cables



LMR400 - Low Loss, RF Coaxial Cables

## Test & Measurements

### 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.



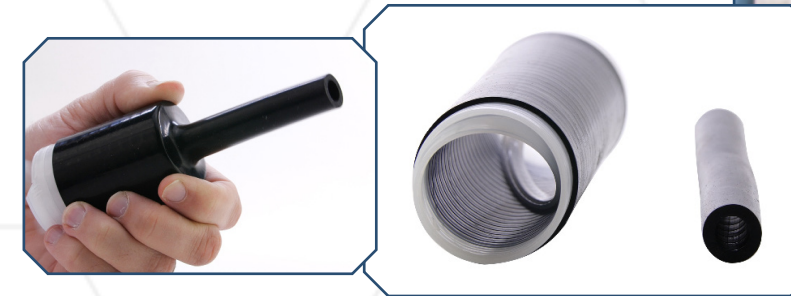
AT&T Approved

## 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 ripcord 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<br>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®<br>2.2-5<br>Type N          | 19mm/0.75"     | 1/4" Coax                   | 6.4mm/.25"   |
|  | SDL-SMA-60  | RPSMA                              | 8mm/0.32"      | LMR 195                     | 4.9mm/.195"  |
|  | SDL-TNL-152 | N connector Hardline<br>to pigtail | 19mm           | 1/2" Hardline to<br>LMR-195 | .63" - .195" |

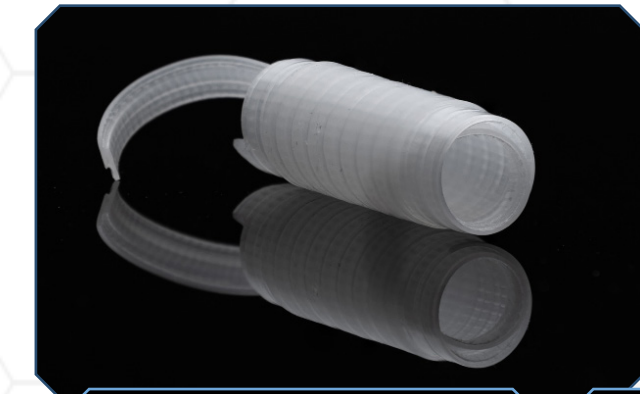
# Cable Protection

RF Weatherproofing that installs in seconds and lasts a lifetime

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RF Weatherproofing that installs in seconds and lasts a lifetime

## Clear Cold Shrink



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.

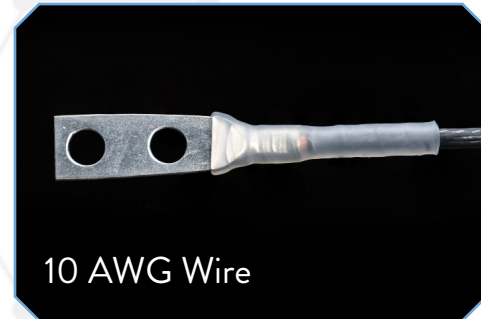
Our Clear Silicone Cold Shrink was specifically designed with 2-6 and 8-10 AWG Wires in mind.



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.

- 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

## Heat Shrink Tubing

### 2:1 Shrink Ratio



GMT-221



GMT-221M



GDR-250



VIT-200

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



GMT-321-AL



GMT-321-ALHD



GMT-321-ALHW



GMT-321-FLT



MWAL-NF



MWHG

## 4:1 Shrink Ratio



GMT-421



GMT-421-AL

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)).

## Speciality Heat Shrink



FIX-105



GDR-250



UV20AL

# Cable Protection

RF Weatherproofing that installs in seconds and lasts a lifetime

## 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

# Cable Protection

RF Weatherproofing that installs in seconds and lasts a lifetime

## 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.



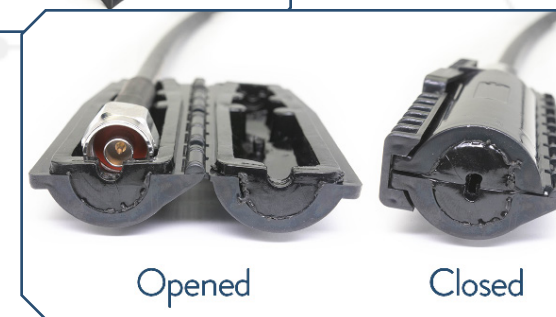
## Slide Lock



### 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.



Opened

Closed



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

# Cable Protection

RF Weatherproofing that installs in seconds and lasts a lifetime

# Cable Identification

Heat Shrink Tubing Printers and Solutions that make Cable Identification Easy

## 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.



## Suppressor Boot



### Reduce RF Interference while getting IP68 Level Weather Protection

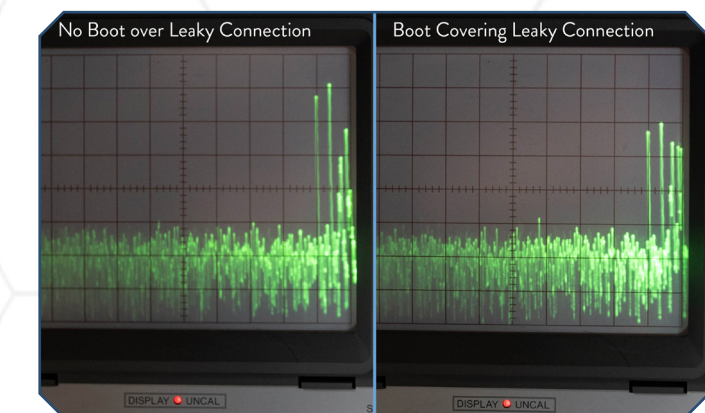
Leaky connectors are known to be an RF egress pain point, often leaking out RF interference that makes its way into antennas, causing PIM problems. Our Suppressor Boot suppresses, (or attenuates), RF egress coming from leaky connectors, keeping interference to a minimum. The boot is made from a unique, 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.

### Available in 4 Sizes

NEX10 to 1/4" Coax      4.3-10 to 1/2" Standard  
4.3-10 to 1/4" Coax      7/16 DIN to 1/2" Standard

### Reduce Interference to 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.



## 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 1/16" up to 2 1/2", and at lengths from 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.



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 1/16" up to 2 1/2", and can cut or perforate in lengths as small as 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.

