



# CNT<sup>TM</sup> BRAIDED CABLE AND CONNECTOR SOLUTIONS

*Connecting New Technologies*



Product Brochure

# Get Wired for What's Next

No one can predict the future. But with CNT™ Braided Cable and Connector Solutions from Andrew Solutions, you'll be prepared for new technologies. CNT provides the most complete, cost-effective, high-performance 50 ohm braided cable and connector solutions in the world. CNT bridges the gap between today's applications and tomorrow's emerging technologies.

Wherever you need a super-flexible, low loss RF cable solution, Andrew CNT has the answer. CNT cables and connectors cover the entire RF footprint, prevailing through every twist and turn of the most challenging installations. And, when it comes to the latest technologies—whether it's LTE, 4G, or WiMax—Andrew CNT ensures that you have the right solution.

**Backed by Andrew's experience and unmatched track record in wireless solutions, you're always ready for what the future holds.**



## Andrew CNT cable solutions offer many advantages:

- Global manufacturing and distribution
- Customized solutions for special applications
- Single source for all of your product needs
- Flexibility and ease of installation
- Universal compatibility
- Competitive pricing



## Expect More from the World Leader in Wireless Connectivity

Andrew's 70-year global legacy of supporting the telecommunications and wireless industries demonstrates our commitment and experience. We deliver an unparalleled breadth of solutions, including high-quality antennas, feeder cable, accessories, and cable assemblies at competitive prices.

Our unrivaled global manufacturing and distribution infrastructure enables us to swiftly deliver CNT solutions anywhere. Andrew CNT products are available factory direct and through our extensive distribution network, making it easy for you to get what you need, on your schedule.

### Experience Exceptional Service and Support

Andrew works closely with distribution partners to provide sales, technical, and product support, helping you stay one step ahead of your projects. Our dedication to customer service includes training classes and direct access to Andrew's engineering expertise for answers to all of your technical questions.

Through the Andrew Institute, Andrew customers and partners also have global access to classroom and on-site training and certification opportunities. Andrew's world-class training capabilities help improve your system performance and reduce your installation costs.





## Connecting New Technologies

Andrew CNT solutions cover the entire RF footprint for applications and technologies that connect the world:

Microwave backhaul

E911

In-building

Government

Medical

In-cabinet

Distributed antenna systems

Two-way land mobile

Mobile and satellite antennas

ITS/Vehicle-to-vehicle communications

Wi-Fi/WiMax/LTE/4G

Broadband

Unlicensed band

## Andrew CNT Engineered for Real-World Challenges

Andrew CNT is designed to meet real-world challenges anywhere you need robust, low loss braided cable solutions. This super-flexible cable performs reliably in every situation. Featuring industry standard PIM ratings, CNT cables are available in a wide array of sizes and lengths to accommodate every need, including outdoor, direct burial, fire-rated, and plenum.

From in-cabinet to tower and pole feeder runs, Andrew CNT provides a complete solution. For microwave backhaul systems, Andrew CNT is ideal for both indoor and outdoor unit connections. In-building capabilities include solutions for riser runs and air-handling plenums. You can also rely on Andrew CNT for internal component and equipment wiring, base station and antenna jumpers, and rooftop installations. The possibilities are endless.



## Andrew CNT The Bottom Line Is Performance

### Designed to Flex

Braided cable technology has turned the corner with Andrew CNT. Installations with a tight bend radius call for it. CNT is exceptionally robust for ease of use anywhere. Designed to flex and endure, CNT stays strong and reliable through every twist and turn of your installation.

### Engineered for Low Loss

Andrew CNT cables and connectors are essential for any emerging network application that requires low signal loss. Our proven braiding technology helps ensure lower attenuation at every frequency. Even when flexed into the tightest bend radius for an extended time, Andrew CNT cable minimizes loss so you always get maximum intermodulation performance.

### Built to Perform

Andrew CNT braided cables are constructed from the highest quality copper, aluminum, and polyethylene materials for superb electrical and mechanical performance. Andrew CNT cable solutions satisfy any application, indoors or outdoors, with robust outer jackets that shield them from abrasion and environmental damage. CNT provides an ideal balance of performance, flexibility, and economy. The bottom line? Andrew CNT cables are built to perform.



### Andrew CNT Cable Ratings:

**Standard** – general purpose use

**Fire Retardant** – anywhere fire safety is critical, such as in-building vertical risers

**Plenum** – in-building air handling plenums and difficult installation areas

**Riser** – in-building between floors and other non-plenum vertical applications

**Direct burial** – exterior rated/underground feeder applications (CNT-400 only)

### CNT Sizes:

CNT-100

CNT-195

CNT-200

CNT-240

CNT-300

CNT-400

CNT-500

CNT-600

# Andrew CNT: A Universal Fit

The quality is in the connection. Andrew CNT cables are universally compatible with all industry standard connectors, tools, and installation accessories.



## CNT Connectors

Andrew Solutions offers a broad array of connectors that lead the industry in electrical, mechanical, and environmental performance. Offering simplified connectorization, our weatherproof connectors ensure a fast, reliable fit with interface options for all industry standard cables. Installation requires no electrical power or specialized tools. With diverse attachment options and styles, our connectors go above and beyond the call of duty. Our CS8 non-solder contact “crimp

type” connectors have an IP 68 waterproof rating—that’s unique in the industry. Andrew also offers a full range of adapter solutions.

## CNT Cable Assemblies

Andrew manufactures superior-quality cable assemblies with the low cost, performance, flexibility, and reliability demanded by today’s communications systems. Andrew CNT cable assemblies for outdoor use are 100% weatherproof, do not require field fitting, and ensure fast installation. Our assemblies for indoor use are available in

fire retardant and phase stabilized versions and have quick mate connector options.

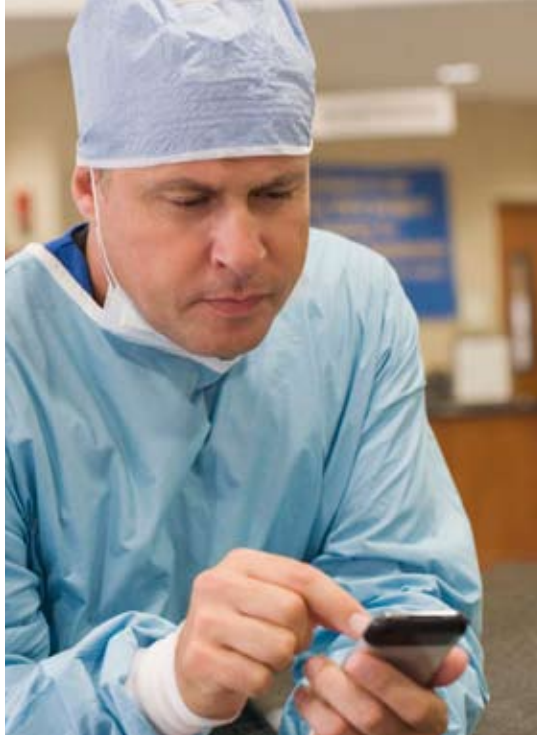
Andrew even offers customized assemblies for in-cabinet, indoor, and outdoor applications. Super-flexible CNT cable is ideal for assembly applications in tight-bend, difficult-to-reach areas. With excellent intermodulation performance, Andrew CNT assemblies can be made to spec for virtually any application.

## Installation Accessories

Andrew supplies a full line of tower site installation hardware and accessories. So, getting from the antenna to your equipment is always hassle-free. Accessories include:

- |                      |                           |                      |
|----------------------|---------------------------|----------------------|
| Cable entry boot     | and accessories           | Mounting hardware    |
| Cable stripping tool | Grounding kits            | Weatherproofing kits |
| Cable ties           | Grounding kit jacket tool | Tie wraps            |
| Crimping tool        | Hangers                   |                      |
| Entry ports          | Hoisting grips            |                      |





## Andrew CNT Drives New Technology Deployments

Boosting throughput and capacity to drive newer applications, such as VOIP and smart phone browsing, is increasingly critical as the market swiftly adapts new technologies. Designed for fast, cost-effective technology deployments, Andrew CNT cable solutions help you make the leap into the next technology.

In addition to enabling wireless installers and microwave backhaul providers, Andrew CNT cable solutions also support diverse applications, including e911, in-building, in-cabinet, medical, and government communications.

### **CNT Solutions Add Value Everywhere**

CNT cable solutions deliver a significant value-add to an array of Andrew products, including our microwave antenna products, in-building solutions, and HELIAX® cable products. It's all part of Andrew's total solution approach.

In microwave backhaul systems, you can use Andrew CNT cable to connect the outdoor unit at the back of the antenna to the controller unit at the tower base. Andrew is also your one-stop shop for backhaul system components, including CNT cable products, antennas, wave guides, clamps, grounding kits, couplers, and accessories.

For in-building applications, you can use Andrew CNT cable in passive distributed antenna systems to connect remote units to splitters and antennas. CNT assemblies are ideal for conduits and elevator shafts where space is limited. Andrew also offers complete in-building solutions that include CNT and HELIAX cable, repeaters, in-building fiber fed distributed antenna systems, fiber cable, assemblies, splitters, couplers, hybrid combiners, adapters, loads, clamps, and accessories.

## Andrew Is There for You at Every Turn

Whether you are a large equipment OEM, communications operator, or small wireless installer, Andrew is there for you at every turn. Our unmatched breadth of solutions—and the applications they enable—are constantly evolving. Andrew CNT Braided Cable, Connectors, and Assembly products offer comprehensive, versatile solutions that bring everything together, connecting your applications to the technologies of today and tomorrow.



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