

Wireless Application Low PIM Coax Cable Assemblies



Custom Coax Wireless Assemblies

Our custom coaxial interconnect solutions are designed to meet the rapidly increasing demand for wireless communication infrastructure. Assemblies provide a reliable connection for your antenna hardware, even under harsh outdoor conditions. We offer connector and cable options compatible with large scale equipment manufacturers.

*Built to meet the rigors of your system's requirements.
All products proudly assembled and tested in the USA.*

Let our knowledgeable staff assist in selecting a solution for you.

Features

Cell Tower

Assemblies are engineered to provide a high-performance connection between Remote Radio Units (RRU) and antennas. With the proliferation of high-speed technology such as LTE™, the importance of limiting Passive Intermodulation (PIM) becomes a critical part of meeting carrier application requirements. Our wireless coax assembly series delivers consistent and superior performance with low attenuation and intermodulation, and high Radio Frequency (RF) shielding.

DAS

Distributed Antenna Systems (DAS) provide reliable wireless services in public spaces and buildings.

Passive and Hybrid DAS installations depend on coax cable assemblies to provide a high-performance connection to the antenna.

CEnterprises' low loss, low PIM cables are available in various cable structures, from semi-rigid to super flexible, to meet bend radius requirements. The selection of outdoor, indoor/outdoor and UL910 plenum-rated cable jackets fulfill DAS application needs.

Ideally suited for DAS systems required by NFPA 72, IFC 510.1 Appendix J, and as may be required by state and municipal fire codes for public safety.

Available Options

| | | |
|----------------------|---|--|
| Connector Types: | <ul style="list-style-type: none"> • 7/16 DIN • N • 4.1-9.5 Mini DIN • 4.3-10 | <ul style="list-style-type: none"> • QMA • SMA • TNC • and more |
| Cable Jacket Rating: | <ul style="list-style-type: none"> • Outdoor • Indoor/Outdoor | <ul style="list-style-type: none"> • Plenum |
| Cable Design: | <ul style="list-style-type: none"> • Semi-Rigid • Flexible | <ul style="list-style-type: none"> • Flexible Corrugated • Super Flexible Corrugated |

Application

For use in wireless network systems that require high performance coax interconnect solutions with environmentally-rated ruggedized materials:

- Cell Tower
- DAS / Small Cell / PICO Cell
- Outdoor DAS networks in campus, stadium, and other wireless settings.



Testing Limits

All assemblies are tested electrically for continuity wire mapping and shorts. Low PIM cable assemblies include 100% passive intermodulation testing in accordance with IEC 62037 standards. Additionally, our Quality Assurance and Inspection system is in accordance with ISO-9000 guidelines.

Low PIM assembly test results are available upon request.

Agency / Standard Compliance

Coax Assembly:

- ISO 9001:2008 Certified
- RoHS Compliant
- Conflict Minerals Compliant
- Assembled to the requirements of IPC/EIA J-STD-001
- Assembled to the requirements of IPC/WHMA-A-620
- Verizon Wireless® approved cables available

Customization

Requirements for wireless systems will vary. Reach out to our sales team to learn about additional components and solutions offered to fit your wireless needs.

Durability

Assemblies for the cell tower environment can be employed in both rigorous outdoor conditions, as well as for indoor routing. Outdoor and indoor/outdoor assemblies supplied with UV resistant cable jackets.

For full line-up see the next page



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Indoor/Outdoor and Outdoor Assemblies

Cell Tower and oDAS equipment employ coax assemblies built with an properly environmentally rated low PIM cable. Ideal for jumper assemblies in wireless communication systems, and for short antenna feeder runs. Offering either corrugated copper or a braided shielding, these assemblies will withstand the rigors of an outdoor environment without sacrificing performance.



Plenum Rated Flexible Assemblies

DAS installations depend on coax assemblies which meet both the performance and design requirements of the desired application. Assemblies are tested according to strict low loss, low PIM parameters. In addition, the plenum rated cable jacket meets building fire codes and employs a flexible cable design, which allows for easy routing into tight mechanical spaces.



RET Cable Assemblies

Used to feed data and power to crucial Remote Electrical Tilt (RET) system components in an antenna environment. The shielded, IP67 rated assembly is Antenna Interface Standards Group (AISG) compliant, and also intermatable with major equipment manufacturers such as: Andrew, Kathrein and Huawei.



Adapters

With the need to connect new technology to existing infrastructure, Low PIM adapters, made of high quality materials, ensure interconnectivity between various styles of connectors. Each adapter is designed to reduce PIM and offers excellent return loss and power handling performance. Silver or white bronze plating provides corrosion protection and abrasion resistance, while providing superior electrical contact properties.



Low PIM Splitters

In order to meet different antenna output specifications, cell tower and DAS systems rely on power splitters to divide the signal for multiple antennas. The high-quality design ensures that there is superior performance without any degradation.



Low PIM Couplers

Hybrid couplers combine two wireless carriers into a single antenna feed or a distribution cable while maintaining superior performance.



Contact the C Enterprises Sales Team for your wireless solutions.

Each manufacturer uses their own connection style, and this can vary even between various generations of units from the same manufacturer. Let us simplify the process.