



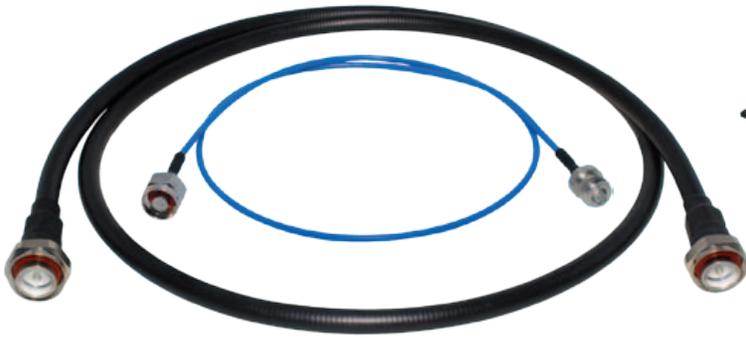
## Install confidence in your Wireless Infrastructure or DAS site

with RF Industries Low PIM RF Coax Interconnect Components



Many companies offer “low PIM” components, but few have the capability to test and verify the performance. RF Industries designs and manufactures low PIM RF coax interconnect components and tests 100% to assure performance.

RF Coax Jumpers: Flexible Semi-Rigid, Flexible Corrugated and Super-Flexible Corrugated Assemblies



Power Splitters, Hybrid Couplers, Termination Loads



RF Coax Adapters: 7-16 DIN to 7-16 DIN, 7-16 DIN to N-Type, and 7-16 DIN to Mini-DIN



### RF Industries PIM test Features

- E-Series PIM Analyzer, the latest factory test solution from Kaelus, formerly Summitek Instruments, the industry leader for PIM test equipment
- Measures the most popular carrier bands in North America
- Provides printed performance charts on request

### Testing Services Available at RF Industries

- PIM
- VSWR
- VNA sweep
- Mechanical
- Electrical
- Insertion Loss

# RF Industries responds to huge Wireless Industry demand for DC power cables



Wireless infrastructure installations require DC power for “up the tower” and “in the building” applications. RF Industries provides outdoor and indoor multi-conductor composite power cables in standard and custom configurations.

Outdoor DC power cables run power up the tower to support Fiber to the Antenna (FTTA) needs. RF Industries manufactures standard configurations that include 2 conductor 8 gauge, 2 conductor 10 gauge, 2 conductor 12 gauge and 6 conductor 8 gauge insulated tinned copper wires rated for 600 volts. All cables include tinned copper braid and aluminum tape shield with a drain wire. The cables are UL Type TC (Tray Cable) approved with PVC jackets that are sunlight resistant and are approved for direct burial.

Indoor DC Power cable, TelcoFlex® III by Southwire, is the industry standard when it comes to indoor DC power cabling. Cable is available from 2/0 to 10 AWG wire size with gray cloth jacket to meet most indoor wireless (iDAS) applications. Black, blue, green and red jacket colors are also available. Cables may be purchased by the foot or in bulk reels in standard or custom configurations.



*RF Industries manufactured indoor and outdoor power cables*



For more information see our Brochures on [Outdoor DC Power Cables](#) and [Indoor DC Power Cables](#)



## Prototype connectors manufactured quickly, economically



The innovative design and manufacturing capabilities of our Aviel Electronics company division allow for a quick response to your specific needs and short lead times for prototype components. Work is generally without non-recurring engineering fees or tooling costs. [Contact Aviel](#) at (877) 805-7381 for a quote.



858-549-6340

800-233-1728

fax: 858-549-6345

[rfi@rfindustries.com](mailto:rfi@rfindustries.com)

[www.rfindustries.com](http://www.rfindustries.com)



# RF Industries now offers AISG compliant RET cables



Remote Electrical Tilt (RET) systems are being installed in many wireless infrastructure sites to optimize signal patterns. The RET control cable between the control unit and the antenna is the least appreciated system component—unless you cannot get one to complete your installation. RF Industries stocks RET control cables in standard lengths of .5 meters to 100 meters. The cables are factory terminated male to female connectors, AISG compliant and fully compatible with Andrew, Kathrein, RFS and other RET systems. Contact your sales representative and ask for RF Industries brand RET cables.

- RoHS Compliant
- AISG Compliant
- IP67 Compliant (mated)
- 1 year warranty
- Custom lengths available

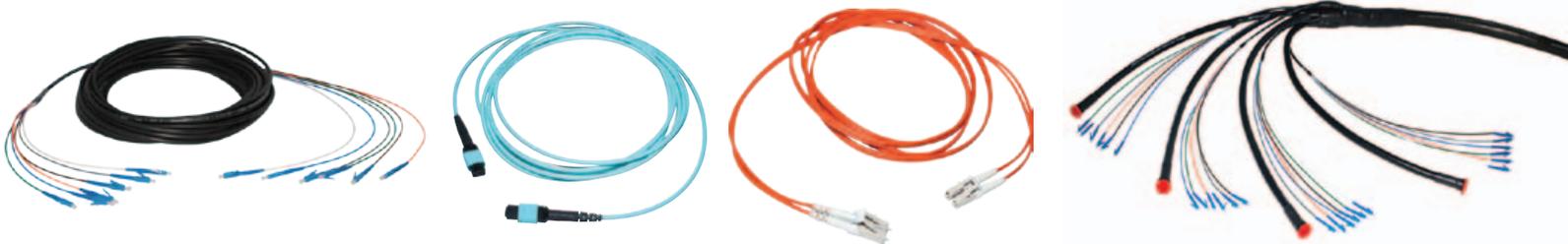


## Unlimited Fiber Optic or Copper Cable Assemblies . . . provided through our Cables Unlimited division



For the past 20 years, Cables Unlimited has been a premier U.S. manufacturer of standard and custom fiber optic, MTP and copper assemblies, with manufacturing and engineering located on Long Island New York. Cables Unlimited manufactures the highest quality assemblies, along with custom engineered solutions for technical development. They provide assemblies to the largest U.S. wire-line and wireless carriers, tower contractors, OEMs and institutions, meeting their demanding quality requirements. Full installation service throughout the United States and Canada are also provided by Cables Unlimited.

Contact Cables Unlimited at (800) 590-9965 or [quotes@cables-unlimited.com](mailto:quotes@cables-unlimited.com) for your custom Fiber, Hybrid Cables, Fiber Trunks, MTP, LC and Mil/RF type assemblies.



## Connect to the latest Wireless Infrastructure Equipment with mini-DIN adapters



Mini-DIN (4.1-9.5) connectors are used in some of the latest wireless equipment. Similar in mechanical design to the 7-16 DIN interface, the compact 4.1-9.5 type DIN connector offers improved performance of the N-type interface. Adapters from 4.1-9.5 DIN to 7-16 DIN interfaces will allow you to connect cables, antennas or test equipment to the new interface.

### Features

- Low PIM:  $\leq -160$  dBc
- Low VSWR:  $\leq 1.20:1$  up to 3 GHz
- Non-tarnish White Bronze (Tri-Metal) plating



RFD-1681  
4.1-9.5 Male to 7-16 Female



RFD-1682  
4.1-9.5 Male to 7-16 Male



RFD-1683  
4.1-9.5 Female to 7-16 Female



RFD-1684  
4.1-9.5 Female to 7-16 Male



858-549-6340

800-233-1728

fax: 858-549-6345

[rfi@rfindustries.com](mailto:rfi@rfindustries.com)

[www.rfindustries.com](http://www.rfindustries.com)



# Are you installing PIM in your Wireless System?



Every interconnect junction in your wireless infrastructure or DAS site has the potential for PIM (Passive Intermodulation) generation. Installing RF coax components with questionable PIM ratings and performance may introduce PIM and cause your site to fail final test certification.

What can be done about this?...

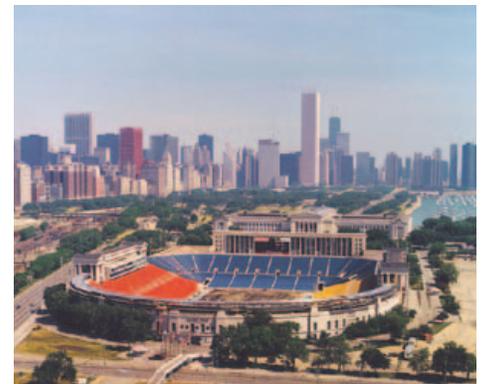


For more information see our Brochures on [Low PIM Products for Wireless Infrastructure](#) and [Wireless Infrastructure Products](#)



## Trivia Answer

**In what city was the first commercial cellular phone network activated?**



*The first commercial cellular network began operation October 13, 1983 in Chicago. The first cellular telephone call on the network was made at Soldier Field in Chicago to a descendant of Alexander Graham Bell.*

**INSIDE *RF* INDUSTRIES**

November 2013

Published Quarterly — Linda Heida, Editor

Please contact us for more information on any product or service or for a distributor near you.



858-549-6340

800-233-1728

fax: 858-549-6345

[rfi@rfindustries.com](mailto:rfi@rfindustries.com)

[www.rfindustries.com](http://www.rfindustries.com)

