



## INSIDE RF INDUSTRIES

A Letter of News and New Products — 2007, Issue 3

# Real-time wireless networks now available through RF Industries

*Purchase of RadioMobile expands offerings*



**R**adioMobile's ability to provide real-time wireless network solutions will extend the capabilities of RF Industries' RF Neulink Division into the area of wireless mobility. Historically, RF Neulink has provided point-to-point radio frequency (RF) wireless links that eliminate the need to transfer data via telephone lines. The technology, products and staff experience that RadioMobile bring to this union will allow us to expand our market diversity and grow our customer base. By bringing RadioMobile into the RF Industries family, we have made an investment in our future.

Over the past twenty years we have seen significant growth of wireless applications within U.S. and International markets. From GPS information, wireless email to text messaging, the future requirements are continually increasing. RadioMobile will allow us to provide wireless mobile data systems and allow our customer wireless access to the applications that define their business through private and public communications systems.

### **RadioMobile**

a wireless networking company



*Jim Moore  
Founder & President*

RadioMobile was founded in 2002 by Jim Moore, a former executive with Federal Express and Qualcomm. With over 30 years of wireless systems development experience, Jim is one of the early pioneers in the field.

787 Dunbrook Rd. San Diego, CA 92126  
(858) 530-1064, (858) 530-1063 fax  
sales@radiomobile.com  
www.radiomobile.com



## **CONNECTING THE WORLD.**

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Fax: (858)549-6345

Email: rfi@rfindustries.com

Web: www.rfindustries.com

**L**ET **ODDCABLES.COM** EXPAND YOUR HOME ELECTRONICS capabilities without having to buy new, expensive equipment. Our website, [www.OddCables.com](http://www.OddCables.com), offers a variety of converters and hubs to meet your needs. Below are just a few of the many available.



**Analog to Digital Converters**

Jump into the digital age, without the costly upgrades. A converter allows you to transfer analog audio and video to one HDMI cable. This is a great way to view content from your computer on your HDTV, giving you multimedia the way it was meant to be seen and heard.



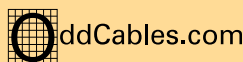
**Multiple-Port, High-Speed USB 2.0 Hubs**

A multiple-port USB 2.0 hub provides additional USB ports for your high-speed connectivity needs. This unit will provide additional ports to expand your computer's plug and play capabilities without resorting to buying a new computer or installing additional USB ports in your PC.



**VGA to Component Video Converters**

Our VGA to component video converters allow you to convert a VGA signal to component video (red, white, yellow), S-video or composite video (red, blue, green).



Contact Worswick Industries at (888) 265-2941 or [www.OddCables.com](http://www.OddCables.com).

**ANSWER: Benjamin Franklin**



*Benjamin Franklin was the first to propose daylight saving time, in a 1784 letter to the editors of the Journal of Paris. His suggestion was not particularly serious, however – the purpose of his article was to poke fun at Parisian high-society for staying up all night and sleeping in until past noon. Nonetheless, he calculated that Parisian families could save 96 million pre-revolutionary French pounds in candle wax and tallow from rising earlier in the summer. When Daylight Saving Time was first formally introduced, first by Germany and then by Britain and the USA, during World War I, it was for the same reasons of fuel conservation and economy first noted by Franklin. ([www.benfranklin300.org](http://www.benfranklin300.org))*

**INSIDE RF INDUSTRIES**

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Please contact us for more information on any product or service.

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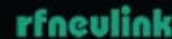


NL6000  
3" x 2.6" x 1.6"

NL5000  
3.6" x 2.3" x 1.0"

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*The NL6000 and NL5000 weigh in at 6 oz.  
The perfect balance of price and performance.*



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**RF CONNECTORS — 75-Ohm SMB**



**CONNECTORS' 75-OHM SMB CONNECTORS** are available in a wide range of configurations including plugs, right-angle plugs, and PCB jacks and are suitable for use in applications with a frequency range up to 4 GHz. The 75-Ohm SMB Connector series provides consistent low mating and un-mating force in positive lock mating as well as snap-on mating faces. Constructed in accordance with the requirements of MIL-PRF-39012, their interface is in compliance with MIL-STD-348. This series has broadband performance with low reflection and is ideally suited for circuit miniaturization and mate with any standard 75-Ohm snap-on jack or plug.

*RF Connectors brand connectors are available through RF Industries or through fine distributors throughout North America.*



# AVIEL — Custom SMB Connectors: a case study

# A

**AVIEL ELECTRONICS MODIFIES INDUSTRY STANDARD CONNECTOR** designs to meet your specific requirements.

Recently, one of our military customers approached us for connector help. They had a panel designed around a competitor's SMB connector and they were experiencing a variety of problems out in the field. The first issue was that the SMB connectors would easily disengage when minimal axial force was applied to a mated pair. To solve this issue, our engineers designed a custom locking mechanism for the SMB Plug that would work on standard SMB Jacks.

*"Finally, we had one more issue to solve for them and this solution was not in any physics books."*

Moisture entering the connector through the interface was the next issue on their list and we presented a simple, but effective solution. Their application was subject to harsh climate, and no ingress of water in harmful quantity was allowed when their enclosure was immersed in water up to one meter. We modified the SMB Plug and added internal o-rings to achieve an IP67 rating.

Finally, we had one more issue to solve for them and this solution was not in any physics books. Our customer's concern was that their technicians could accidentally mismatch the input and output



*Unique SMB connectors developed for the military to meet specific connection and environmental requirements.*

cables under strenuous conditions and jeopardize a mission. We offered a reverse polarity version of the connector with a visually distinguishable coupling mechanism. Mating the wrong pair was now not only unlikely, but also physically impossible.

AVIEL ELECTRONICS innovative design and manufacturing capabilities allow for a quick reaction to your specific needs and short lead-time for prototype components. Our engineers have the education and experience to solve your interconnect challenges.

*Call (877) 805-7381 toll free for more information or to discuss your custom interconnect applications.*



## RF CABLE ASSEMBLY — Cable Harnesses



*One of our custom cable assemblies.*

# RF

**CABLE ASSEMBLY DIVISION** of RF Industries, which in the past concentrated primarily on coaxial assemblies, has now expanded their offerings into the cable harness market. Cable harnesses can be described as cables with multiple type connectors on multiple ends as shown in the accompanying photo. The RF Cable Assembly division can provide solutions by fully-sourcing the components of the harness or by using customer-furnished material. With RF Cable Assemblies' "state-of-the-art" labeling machine, labels can be custom designed to include part numbers, project numbers, circuit numbers, logos, etc. The RF Cable Assembly division, which also offers RoHS compliant solutions, thrives on competitively-priced quality products and is ready to serve you.



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

## BIOCONNECT — Cost Savings



*The Schäfer Megomat Primo XLT wire processing machine*

# B

**BIOCONNECT COMMISSIONED** an automated wire cutting machine that ensures repeatable accuracy and speed. The Primo XLT was designed specifically for Bioconnect in Wisconsin by Schäfer-MEGOMAT for the purpose of cutting, trimming, and attaching sockets or pins to small diameter wire. The Wirestar software controls the entire operation once setup is completed. It will monitor wire length and cutting specifications while in operation and halt if an anomaly occurs. The slide collector tray holds the finished product until the run is completed. The precision of the machine allows parts to bypass three operations and head straight to the molding operation saving time and money. Capacity, depending on length, is around 3600 parts per hour opposed to 900 per hour using the old method. The capabilities and volume capacity of this machine yield cost savings, enabling us to keep our prices competitive.



**Check out the huge selection of coaxial connectors and cable assemblies at [www.rfindustries.com](http://www.rfindustries.com)!**

We're making way for new stock and need to empty the shelves. Following are some examples of the of the 100s of bargains available:



**CONNECTORS**

N female bulkhead, PCB mount with hardware  
SMA jack, 4-hole flange mount, gold body  
*and more...*



**CABLE ASSEMBLIES**

16-inch BNC male to BNC male, RG-58/U, blue  
24-inch TNC male to TNC male, RG-55B/U  
36-inch N male to N male right-angle, RG-58C/U  
48-inch N male to TNC male, RG-8X  
48-inch SMA male to SMA male right-angle, RG-188/U DS  
*and more...*



**Excess Inventory**

*Availability is subject to change and prices shown apply only to items listed.*

**Who first proposed Daylight Saving Time?**

Hint: 2006 was the 300th anniversary of his birth.  
*See inside for answer.*

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