

Copper to Fiber Connections?

Do you have the need to move analog or digital voice and data from copper to fiber and back? Would you like the link protected to Motorola R-56 grounding specs in a hardened device?

Fiber Optic Link

www.fiberopticlink.com

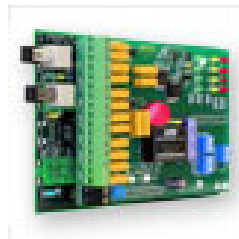
We have a new product line - click the link above and you will find copper to fiber links from a simple POTS or 56k DDS to 4 X 1 Mux to fiber, HSDL to fiber, T-1 to fiber, Ethernet over fiber and video over fiber.

The product at Fiber Optic Link is manufactured by RLH Industries, Orange, CA. They make cards that covert electrical signals from copper to optic sig-

nals in fiber and protect the user and equipment both inside and outside the Ground Potential Rise area.

Unconditional Lifetime Guarantee

Have I got your attention yet? All of RLH Industries products have an unconditional lifetime guarantee. They have been manufacturing product since 1988. Their quality and workmanship is so superior that they



RLH 4 X 1 Mux Card

can offer a lifetime warranty.

If their product fails **FOR ANY REASON**, you get the product repaired or a new one - simple, isn't it?

Cabinets/Pedestals

In addition to making state-of-the-art cards, they also provide plastic, aluminum and steel cabinets and pedestals to protect their product in the field.

Fiber Cable/Jumpers

They also sell cable in small to large spools and manufacture assemblies and jumpers - per your request.

So, check out our new product line for us and we ask that you check out their product quality and customer support. Ω

Grounding Training - Seattle

Lyncole/XIT just announced that they will hold a two-day grounding training school in Seattle!

February 18/19

Mark your calendars for Thursday/Friday, February

18/19, 2010. The location has yet to be determined, but the agenda and cost have been.

Your \$995 investment will be repaid by being educated on soil testing and

why 95% of what you know now about testing is invalid. This education will be proven with hands-on field verification to make sure you do the test right the first time. Please review the enclosed form. Ω

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Aeroflex 3250 Spectrum Analyzer

The NEW 3250 Series Spectrum Analyzer by Aeroflex has been developed to provide market leading performance at a low cost. The innovative design employs the latest digital processing and RF technology, providing accuracy, stability and measurement speed.

The 3250 incorporates a standard 30 MHz bandwidth

digitizer and basic digital modulation analysis S/W. The instrument has been optimized for various mobile and wireless communication measurements such as GSM/EDGE, UMTS, WiMAX and WiBRO.

With its powerful RF performance and advanced applications the 3250 Series is ideally suited for RF development, design analysis and testing. All models

have a Windows® XP operating system, remote control capabilities via LAN, GPIB and RS-232C as well as a 7" touch panel screen, ensuring ease of operation and exceptional connectivity. The models are:

- 3251 - 1 KHz to 3 GHz
- 3252 - 1 KHz to 8 GHz
- 3253 - 1 KHz to 13.2 GHz
- 3254 - 1 KHz to 26.5 GHz

This one is worth seeing, please call me so we can set up a demonstration. Ω



**Aeroflex 3250
Spectrum Analyzer**

Daniels - E-6, 30 watt Repeater

Do you need a self-contained base station or repeater with 30-watts output? The Daniels E-6 is specifically designed to meet the needs of surveillance operations where covert communications are necessary.

The nice thing about this

configuration is you can have analog and/or conventional P25 digital in VHF and UHF (700/800 coming in summer) in one box.

Similar to PDR3500

On the enclosed brochure, please compare our feature set with those of

the popular PDR3500. You will find that ours is smaller, lighter, has better duty cycle but equal to the PDR.

So, what are you waiting for? The Daniels pricing is very competitive and it just might be what you are looking for. Call me for additional information. Ω

Daniels E-6 Stealth Repeater compares favorably with the old Motorola PDR3500

TXRX - NFPA/IFC Compliant

The TXRX "RescueLine" Signal Boosters are NFPA and IFC Compliant.

This is important because when Public Safety is in the balance, you should not put a non Public Safety Grade product in an RF boosting application.

Public Safety Grade

What makes the TXRX Signal Boosters Public Safety Grade are the NEMA 4 cabinets, alarming functions, supervised alarming circuits and 12 hour battery backup.

Spec's for the RescueLine

support their high quality and allow TXRX to offer:

5 Year Warranty

TXRX has Signal Boosters that have been service so long, they are proud to offer a 5 Year Warranty on their products. Call me for more information. Ω



Signal Booster II



Lyncole Grounding - Education

You may remember that Alster was the PolyPhaser rep for several years. We thought we knew a little bit about grounding and lightning protection.

Then we had a four hour training session with **Lyncole** and I learned much more about the subject

5 Ohms vs. 25 Ohms

We learned that NFPA and IEEE specs usually use a 25 Ohms threshold for safety and that this is good

enough for equipment - but not good enough for us.

What people need is a threshold of 5 Ohms to protect people from deadly currents.

Water Pipes

We know that water pipes are not great grounds, but sometimes they are all you have. We learned not to allow the water pipe to be "all you have" and to use a real ground electrode.

Driven rods are OK, but

are not enough. Pounding a 5/8 X 10' rod in the ground just doesn't cut it. So, what do you need (the answer is the picture to the right)?

Grounding System

What you need is a grounding system that protects both equipment and people from Ground Rise Potential. The best way is to do a resistivity test. It is not hard and it provides the best answer and solution for you. Call me for info. Ω



**XIT - Grounding
30 Year Warranty**

Satellite Communications - 4 U ?

What are your agencies doing about communications when everything is down? If they are like other agencies across the country, they are finding a satellite provider for back up communications.

These backup systems can be as simple as a Sat-

phone or an entire Satellite communications system. What should you do?

Mission Critical

For an example, please take a look at the Nov-Dec issue of Mission Critical: www.mccmag.com and start reading on page 27. The article describes Sat-

Com needs of a public safety agency.

We just signed on as the rep for SpaceNet, a provider of satellite services. Page 32 of the continuing article, SpaceNet is used as an example of a partner to help agencies come into the 21st century. Call me. Ω

SpaceNet offers a complete Satellite Communications System for your Local, State and Federal agencies

Larsen - Continues GPS Development

Larsen Antennas continues to improve their position in the GPS antenna market. They have developed antennas for Remote Monitoring, Location Tracking, Emergency Assistance, Navigation and Vehicle Diagnostics.

These new antennas are great for freight companies,

taxis, tow trucks, buses and the oil/gas industry.

Multiple Frequencies

What sets Larsen apart is the variety of antennas they have for multiple frequency applications such as VHF/GPS, UHF/GPS, Cellular/PCS/GPS and just about any combination of the above.

They have magnetic mount, glass mount, NMO mount, through the roof mount, thick roof mount and elevated feed.

Moto Turbo

These are great antennas for the Motorola Moto Turbo radios. Please give me a call for more info. Ω



**Larsen GPS
Family Picture**



We Like National/Regional Distributors

The job of every Alster guy is to convince you to buy the products we represent. Once this choice is made, there are several channels through which you can buy. We are pleased to work with several high quality distributors.

National

Our National distributors are Hutton, Talley and Tessco. Each has several warehouse locations. Hutton and Tessco have warehouses in Reno, Nevada and Talley has one in Auburn, Washington.

Regional

Our Regional distributors are CB Distributing, Frigid North and Primus. CB has their warehouse in Albany, Oregon. Frigid North has a warehouse in Anchorage, Alaska. Primus has their warehouse in Joliet,

Illinois.

Alster thanks each distributor for stocking and supporting the products we sell. Thank you for asking for our product lines by name when buying through distribution.

Product Lines

Our distributors can get you products such as Bird Electronics, Gabriel Microwave, Larsen Antennas, Lyncole/XIT Grounding, Raytheon/JPS Communications and Times Microwave Cable.

Thank you for the business that you place through distribution. All we ask is that you ask for our product by brand name.

Self Bonding Silicone Tape

Times Microwave sells a self bonding sealing tape for outdoor RF connections. If you have not tried this

product, please ask me for a free sample. It goes on easy, but the secret is how easily it comes off.

ACES 2010

We will be doing it again next year so mark your calendars for the first full week of October, 2010, when we will be in:

Boise, Idaho

Helena, Montana

Spokane, Washington

We will have technical seminars, new products in the exhibit area, a free lunch and lots of door prizes. So, come to learn and have a chance to win. You will enjoy yourself at ACES meeting your colleagues and learning something new. Ω

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