

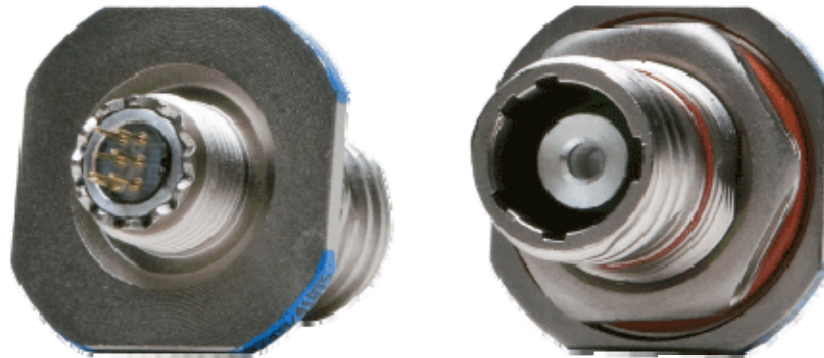
PROTOKRAFT AND SOURIAU TEAM TO FACILITATE ELIO® COMPLIANT OPTICAL NETWORK INTERCONNECTIONS

Protokraft and Souriau Combine Souriau's Avionics Industry-Leading ELIO® Fiber Optic Connectors with Protokraft's Sabre Series High Speed Optoelectronic Solutions to Improve Avionics Optical Network Performance and Reliability

Kingsport, TN, February 11, 2010 -- Protokraft today announced the availability of its Sabre Series of high speed optoelectronic solutions that improve optical network performance and reliability in harsh environment applications. Protokraft teamed with Souriau; one of the world's leading suppliers of military / aerospace interconnects; to offer a high performance D38999 / ELIO® based optical component solution for avionics optical networks.



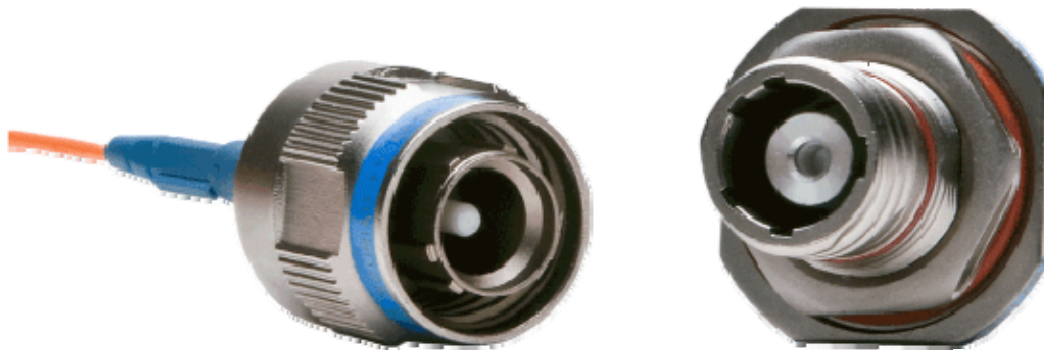
Protokraft has introduced the Sabre Series of high speed optoelectronic solutions with Souriau's ELIO® optical interfaces, designed for military, aerospace, industrial or utility applications where significant levels of shock, vibration and extreme temperature ranges are experienced. These components integrate the functions of optical transmitters or receivers into the shell of a standard D38999 / ELIO® size 09-01 optical connector. These components are ideal for use in harsh environments where small size, weight reduction and resistance to harsh environments are valued.



Protokraft Sabre series high speed optoelectronic solutions consist of fiber optic transmitter or receiver functions integrated into an environmentally sealed D38999 shell with a Souriau ELIO® optical interface per ARINC 818, 801, 803 & 804. The Sabre series optoelectronic transmitters and receivers have an ELIO® 2.5mm ceramic optical fiber ferrule connector interface per EN 4531 and ABS 1213 & 1379 and are interchangeable with Souriau ELIO® size 09-01 connectors.

The optical transmitters are high performance 850nm VCSEL's. The optical receivers consist of GaAs PIN and preamplifier assemblies and limiting post-amplifiers. The optical interface to the Sabre series Ethernet optical media converters is a Souriau ELIO® connector enabling interconnection to preterminated ELIO® based optical fiber cable assemblies. The electrical interface to the Sabre series optical media converters is a six position solder pin field facilitating easy interconnection to printed circuit cards, backplanes or flexible printed circuits. The transmitter input lines are driven with differential CML, LVDS or LVPECL signals applied to the Transmit (TX+ and TX-) pins. The optical receivers consist of PIN and preamplifier assemblies and limiting post-amplifiers. Electrical outputs from the receivers consist of differential CML, LVDS or LVPECL data signals on the Receive (RX+ and RX-) pins and single ended CMOS or LVPECL signal detect functions with output squelch on the Signal Detect (SD) pins.

FEATURES



- Suitable for optical communications applications from 125Mbps to 4.25Gbps
- Optical fiber link distances up to 550 meters
- Maximum optical channel bit error rate less than 1×10^{-12}
- Operating temperature range from -55°C to $+85^{\circ}\text{C}$
- Shock, vibration and ESD resistant per Mil-Std-810 and DO-160
- Aluminum alloy D38999 shells are strong, durable, corrosion resistant and light weight
- ELIO[®] compliant optical fiber connector interface

Designed to operate in harsh environments, these high speed optoelectronic solutions feature excellent thermal characteristics, high tolerance to vibration and shock and corrosion resistant aluminum housings for exceptional EMI/RFI performance. Standard case operating temperature range is -55°C to $+85^{\circ}\text{C}$, with a standard storage temperature range of -55°C to $+100^{\circ}\text{C}$. All operate from +3.3VDC power supplies.

Protokraft's Sabre Series ELIO[®] high speed optoelectronic solutions are competitively priced compared to the typical pricing for discrete media converters designed for similar harsh environments. Small quantities are available now, with production quantities of all versions available during Q'1-2010.

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About Protokraft, LLC

Protokraft designs and manufactures high-speed optoelectronic components and subsystems for military and harsh environment networking equipment. The company provides transceiver subsystems for short-reach (1-meter to 20-kilometer) harsh environment optical-networking connections, including optical network switches, optical enterprise and storage area networks (SAN's), and tactical optical access networks. Protokraft is located in Kingsport, TN.

About Souriau

Dedicated to the industrial, military and aerospace markets, Souriau designs and manufactures high performance interconnect solutions for severe environments. The Arinc 801 ELIO[®] fiber optic solution is one of the successful easy handling, easy cleaning robust fiber optic interconnections developed by the

company for Mil-Dtl-38999 and ARINC 600 connectors. This product is now widely used in different applications, such as aircraft avionics to ground military and navy radar and communication systems. For more information, see www.souriau.com

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