

Media Converter

38999 EMI Connector, Electrical / Optical Media Converter



Highlights

- Low to High speed secure data communications
- Operating temperature range -55°C to +95°C
- Low power consumption (+3.3V supply)
- Suitable for single or multi mode optical fibre transmission
- Built-in-Test and status monitoring
- Lightweight and easily integrated within confined spaces
- Intermateable with EMI 38999 hermetic sealed connectors
- Intrinsically safe
- Designed, qualified and manufactured in the UK

High Performance, Opto-Electronic Media Converter

This is the first in a series of Spectrum Control's Media Converters and opto-electronic solutions specifically developed for harsh environments in aerospace, defence and commercial applications. Configured and optimised for specific end-user system needs.

Overview

System Benefits

This product offering is a suitable alternative to copper based electrical cables and is an easy retrofit solution. Data rates range from 20Mbps to 10Gbps over single or multi mode optical fibre. Operational temperature range spans of -55°C to +95°C and this product is designed to be intrinsically safe in combustible environments.

Design Capabilities

Spectrum Control's product design capabilities offer laser beam profiling, optical alignment (automated active scan and optimise), optical test systems and product design verification, RF/Microwave and optical design and simulation, hermetic sealed hybrid packaging and clean room assembly.

Test Capabilities

Spectrum Control is dedicated Test House carries out testing in accordance with MIL-STD-883 and MIL-STD-202. It is continuously developing capabilities and test methods in response to customer requirements.

Applications

- Aircraft avionics and military vehicle platforms
- Towed arrays
- Remote Operated Vehicle (ROV) communications
- Broadcasting and video links
- Subsea communications
- Renewable energy data communication
- Diagnostic link fault finding (OTDR)*

**Future option*

Full Engineering & Development Partnership

Spectrum Control welcomes the opportunity to work with customers during their product development by providing the technical support to customise other optoelectronic requirements solution.