

At a glance

Martec has a patented system for tailoring high speed interconnects that deliver the strongest possible signal to your data analysing equipment.

- Ideal for applications in harsh or hostile environments (eg subsea)
- Low insertion loss retains a stronger signal
- Pressures up to 60,000 psi
- Temperatures from -55 to 250 deg C
- S parameter testing capability up to 10GHz

High Speed Interconnect Capability

Optimised for high speed data

Many of Martec's customers need to collect, gather or process data on a high speed network in a harsh or hostile environment. Martec has developed a patented system for optimising different types of interconnects (typically coaxial and differential pair, but also RJ45) to meet the challenging demands of high speed data transfer in critical applications.



Low insertion loss

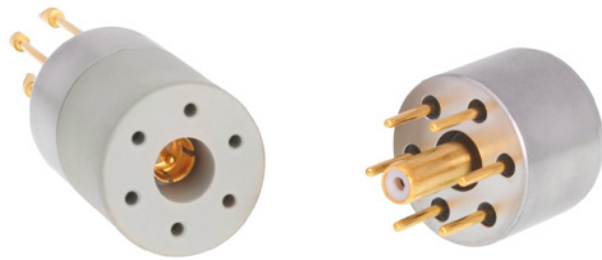
Martec's high speed interconnects have a very low insertion loss, so you don't end up losing your signal or data stream.

Sensitive equipment and hostile environments

As the interconnects are designed to minimise signal attenuation, they allow you to use a larger physical network and the lower signal levels needed for more sensitive instruments. They can also be designed to withstand the harsh environmental conditions that they are likely to come up against in the final applications, such as HD video image gathering by an ROV operating in deep water.

- Pressures up to 60,000 psi
- Temperatures from -55 to 250 deg C (subject to detailed design specifications)
- S parameter testing capability up to 10GHz

**We are able to
design and develop
a custom solution
in partnership with
you and your team**



Guaranteed compatibility

Depending on the signal in question, the interconnects can be designed to be compatible with the relevant network cable standard (eg Cat 5 or Cat 6) or for use on 100BaseTX, 1000BaseT or USB 3.0.

Tailored to your needs

All of Martec's high speed interconnects are variations of existing products that have been adapted to suit an individual customer's particular application. Martec is the only company in the world offering this level of system integration expertise, using our own patented process.



About Martec

Martec is an independently owned and managed precision engineering company that was founded in 1987 and operates from a purpose built, world-class design and manufacturing site in the UK. We design and manufacture high-reliability interconnection devices for mission-critical applications used in industries that operate in harsh or hostile environments. These include aerospace, defence, subsea, oil and gas, process control, medical and motorsport applications.

Today, our world-class, performance-engineered solutions are at the forefront of technology and developed using an application-focused approach that builds on our extensive systems and materials expertise.

Whether you require a high volume production or a one-off project, we are able to design and develop a bespoke solution in partnership with you and your team.

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