

Custom Engineered High Pressure/High Temperature Interconnect Systems

Teledyne Impulse manufactures custom engineered and standard high performance and reliable HP/HT connectors for use in MWD/LWD, open hole and cased hole logging, and a variety of other downhole instruments and applications. As the industry explores and develops reserves in more aggressive environmental conditions, interconnect systems are required to provide accurate and reliable data at increasing temperatures and greater wellbore depths. Teledyne Impulse's dry mate connectors are engineered to be robust and to meet these challenging conditions.



Our expertise in molding rubber and high temperature elastomers is utilized to manufacture a variety of easy to terminate high pressure rated field installable in-line connectors, bulkhead connectors, and pressure sealed cable assemblies. Using metal shell, glass-reinforced epoxy, and glass-to-metal hermetic technologies, we offer electrical and optical single-pin feedthrough connectors up to multi-pin high density penetrators for primary and secondary pressure barrier applications. Our connectors are typically less than 3/4" diameter for installation into the limited space of downhole instruments and have been designed for efficient field installation and termination.

For over 30 years, Teledyne Impulse has provided interconnect solutions for the most demanding applications, which include oceanographic exploration, spacecraft, defense, nuclear systems, and oil and gas seismic and production systems. Through precise and innovative engineering, flexible manufacturing processes, and dedicated customer support, Teledyne impulse provides highly reliable and cost effective interconnect solutions specific to the demanding needs of the downhole instrumentation market.

Manufacturing Capabilities:

- Rubber (Neoprene)
- Glass-reinforced Epoxy
- Glass-to-metal Seal
- Electro-optical Hybrid
- High Temperature Elastomers

Key Features:

- 5K to 25K PSI Pressure rating
- Up to 500°F Temperature
- 1 to 16 Circuits
- 1 -14 Amp
- Up to 15KV

Applications:

- Downhole Sensors
- Perforation/Detonation
- Directional Drilling
- Seismic
- MWD/LWD
- Wireline

Certifications:

- ISO 9001:2008