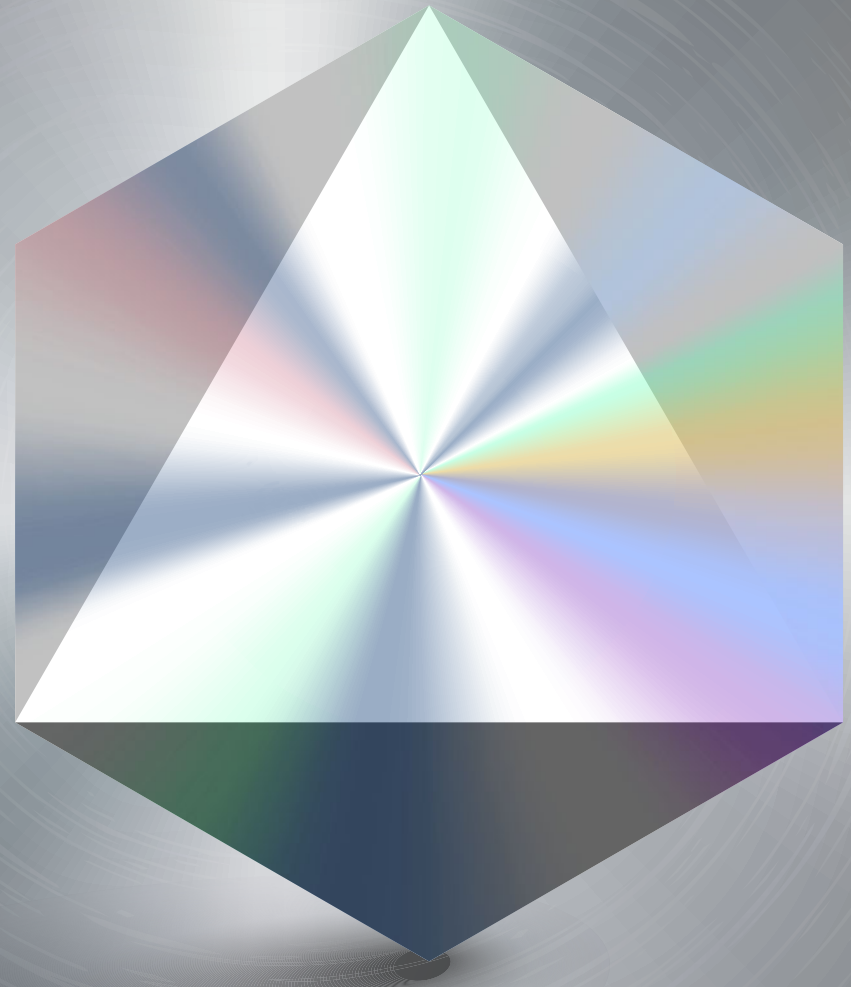




M2M ENCAPSULATION OF ENTIRE ELECTRICAL



BiM2M-ESP SMART SPLICE

The BiM2M-ESP Smart splice incorporates a temperature and pressure sensor with a modem which multiplexes its telemetry onto a single phase. The sensor and telemetry are fully encased in a PFA tube with known highly consistent electrical insulation properties. In the event of a sensor failure, the power cable is not compromised.

The sensor is in direct communication with the environment outside the splice housing, it can also be connected to the tubing via a capillary tube to measure discharge pressure.

Where ever a splice is placed, pressure and temperature can also be measured at that position.

The other conductors are terminated with a male / female lamella, this provides the following advantages, minimum assembly time, highly reliable and consistent electrical connection, high current-carrying capacity, easy and reliable dis-assembly, no crimp damage to remove.

Insulation is provided by PFA tubes, these have highly consistent electrical insulation properties and are installed in minutes compared to the tape method, which can take hours.

The cables and sensor are positioned inside a stainless-steel tube with end fittings to match the cable type and mount the pressure sensor in direct contact with the wellbore fluids.

The void space between the cables the sensor housing and the stainless-steel tube is filled with low temperature alloy, resulting in the smart splice being total encapsulated in a metal-to-metal seal.

