

## QVS MAKES QUALITY YOUR COMPETITIVE ADVANTAGE

During the Camesa EMC manufacturing process a strict quality control program is enforced. Each cable is given a complete electrical and mechanical test to confirm that it meets or exceeds catalog specification. Our revolutionary new **Quality Verification System (QVS)** uses microscopic enhancement to record minute measurements of wirelines to deliver the data you need to back up quality control claims:



- Comprehensive inspection report with a high level of detail and full traceability from drawing of the wire to installation
- Historical data on every cable throughout the entire length
- Information to help clearly delineate operational malfunctions from quality issues

Currently, other wireline manufacturers utilize a series of quality check points on the manufacturing line that are monitored manually by a machine operator via a computer screen or mechanical process. These check points are there to make sure minimum standards are met for a cable's quality before it is allowed to leave the shop floor and sold to a customer. This has been the standard since the beginning of modern manufacturing of wireline in the 1980s and serves well in catching catastrophic failures in quality.

The drawback to this type of quality control system is that the element of human error is still present in the manufacturing process. At the speeds in which cables are manufactured it is impossible for even the most diligent operator to catch minute inconsistencies and may even miss manufacturing defects entirely.

Camesa's QVS system replaces the reliance on a human operator verifying the quality control system during the manufacturing process by gathering the data from each electronically monitored check point into a central server and continually measuring them against upper and lower manufacturing limits. This not only alleviates the possibility that a length of product is manufactured outside of specification due to a human oversight, but it also creates an electronic record of the entire manufacturing life of a particular cable that is stored and available for review. This QVS report is a fully traceable document unique to each individual SKU authenticating with minute specificity every quality check point along the total length of a wireline.

This is a significant milestone in wireline manufacturing because in today's increasingly complex and stringent environmental and safety conscious oil and gas industry, large oil and gas operators desire their wireline service suppliers (our customers) to have complete traceability not only to their own operations but also to the materials used in their oil and gas wells. In the old quality control system this type of traceability was impossible as there was no central point of data collection that could generate such a report.

Today, with QVS, customers and operators alike can be assured that when they purchase a Camesa cable, they can review any specification along the entire length of a wireline down to the individual foot. Furthermore, this system captures data real time and is available via a live feed portal which allows Camesa representatives to present a live view of the manufacturing floor at any given time.

**No other wireline manufacturer even comes close to giving this type of verified quality control, manufacturing transparency, or instantaneous authentication of their products.** Added to our already extensive quality control program, it's the verifiable performance you need to gain a competitive advantage.