The Secret of Junkosha revealed at IMS 2018 with the launch of two new millimetre wave interconnects for the 5G generation

Interconnect pioneers unveil latest phase stable cabling solutions at premier annual International Microwave Symposium (IMS)

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As engineers respond to the challenge of millimetre waves to meet the demands of a 5G age; the performance of interconnects has come under close scrutiny. The need for phase stability is considered vital across R&D and Quality functions responsible for the development and maintenance of high-frequency networks that are at the core of increasingly sophisticated systems. Cables have a reputation as a weak link in test equipment like Vector Network Analysers (VNAs) where instances of flexure and movement have an impact on the accuracy of results, which is accentuated as frequencies increase. At the forthcoming IMS event (June 10-15, Philadelphia, USA) interconnect pioneers Junkosha aim to challenge this view. Announcing the launch of a new range, the Japanese company will showcase an ultra-phase stable interconnect that endures in the field and the laboratory.

With its next generation MWX051 and MWX061 interconnects, Junkusha has designed mmWave cabling solutions up to 67 GHz to meet the higher frequency demands of tomorrow's 5G networks. Available with ruggedized NMD connector assemblies to deliver reliable and robust connections to the VNA, these new interconnect solutions have been created to withstand the most rigorous of testing environments for periods of approximately three and a half years[1]. Featuring characteristics including high tensile strength, a low dielectric constant and high flex life thanks to Junkosha's precision engineered expanded-PTFE wrapping technology, these new interconnects will test engineers' resolve to stick with lower quality, lower cost alternatives.

"The demand for mmWave frequencies is no longer the preserve of military and research applications", explains Joe Rowan, President and CEO of USA and Europe for Junkosha. "5G and high-speed data applications are now driving innovation. For those familiar with the 'Secret of Junkosha', it will be no surprise that we are at the forefront of the development of high frequency

[1] This is based on an internal Tick Tock test of 30,000 cycles, which equates to 30 tests per day, five days per week for 3.8 years

interconnects. Our expertise and pedigree in expanded-PTFE tape wrapping has enabled us to deliver a flexible phase stable cable that endures."

The IEEE MTT International Microwave Symposium (IMS) is the premier annual international meeting for technologists involved in all aspects of microwave theory and practice. It consists of over 600 exhibiting companies that represent state-of-the-art technologies including materials, devices, components, and subsystems, as well as design and simulation software and test and measurement equipment. In addition, it comprises a full week of events including technical paper presentations, workshops and tutorials. The symposium is held between June 10th to 15th at the Pennsylvania Convention Center in Philadelphia, USA. For more information, click on https://ims2018.org/.

For more information on Junkosha's precision engineered MWX range, click on https://www.junkosha-mwx.com/.

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About Junkosha

Junkosha are pioneers of sophisticated fluoropolymer application technologies across many sectors including microwave interconnect and medical devices. With three operations in Japan, including its headquarters as well as sites in the US, UK and China, it is one of the best kept advanced technology secrets outside of Japan. The company provides wire and cable products, including microwave interconnects, robot cables, high data rate cables, camera link cable assemblies, ultrafine coaxial cables and assemblies, cables for clean environments, and general wires and cables. It also provides tube and fitting products, including generic resin tubes, fluoropolymer tubes, high-barrier tubes, flexible multi-layered tubes, industrial hoses, degassing modules, heat-shrinkable tubes, and the market leading peelable heat shrink tubes.