New 4.3-10 connector system for the mobile communication market

Leading connector suppliers HUBER+SUHNER, Rosenberger, SPINNER and Telegärtner jointly developed a new connector system for the mobile communication market. The new 4.3-10 connector system is designed to meet the rising performance needs of mobile network equipment and at the same time reducing its size supporting the ongoing space reduction requirements.

Initially the need to get a new small size connector system for the use in the mobile communication market arose amongst the mobile equipment vendors. The demand for smaller connectors has been obvious and due to the miniaturization of mobile communication equipment, their footprint size quite often has been dominated by the size of connectors.

4.3-10 shines with best electrical performance and lowest Passive Intermodulation (low PIM). Due to its size it perfectly fits in between existing connector systems used in mobile communication industry today and has the potential to become THE connector system for the mobile communication market. In today’s connectors, the electrical and mechanical planes are the same. For 4.3-10 these planes have been separated, which also results in a lower coupling torque. The result is a new connector system, which can be offered with screw, hand-screw and push-pull mechanisms, thus simplifying the installation effort.

In June 2013 the new connector system was submitted to the DKE\(^1\) for standardization with IEC\(^2\) to follow in September 2013. The finalization of the standardization is expected in 2014. At the same time the system will be available with high quantities for the mobile communication industry.

Ericsson, Kathrein and Nokia Siemens Networks welcome this initiative and see great value in developing the new 4.3-10 connector system for the mobile communication market.

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\(^1\) German Commission for Electrical, Electronic & Information Technologies of DIN and VDE

\(^2\) International Electrotechnical Commission