

Deutsches Mitglied in IEC und CENELEC

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## Announcement of publication of work on Gigabit Ethernet technology over Plastic Optical Fibre

Dear Mr Law,

It is a pleasure to inform you about the work done in the DKE - UK 412.7 during the last 3 years.

Plastic Optical Fibre (POF) has been used in optical communications in different markets for many years. Clear examples of this are the commercialization of Ethernet "media converters" for 100 Mbps links in the home network.

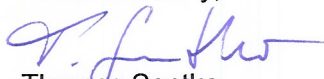
The increase of bit rate used in the home with the arrival of FTTH, requires higher bit rates in the home networks. POF is a very good media candidate for robust and easy to install networks in houses. The possibility of providing 1 Gbps links in the house over POF is a big demand in the home networking market in Germany and another European countries.

During these last 3 years the UK 412.7 working group in VDE has been working in the feasibility of the 1 Gbps link over POF, and further more, it has benchmarked many different options. Finally the best one has been tested and selected. The challenge has been very high due to the band limitation of the fibre and LEDs to be used, as well as the non-linearity of all the optical components.

The DKE - UK 412.7 describes the conclusion of all its work in a "Vor-Norm" document. The "Vor-Norm" document VDE V 0885-763 is a pre-standard and does not have any further plan to become a normative standard.

Due to the fact this pre-standard describes how to use Ethernet over Plastic Optical Fibre, the DKE would like to keep IEEE informed of the future work and inform IEEE about the possibility of using it in the future as a contribution to an IEEE standard.

Yours sincerely,



Thomas Sentko

Standardization Manager  
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DKE Deutsche Kommission  
Elektrotechnik Elektronik Informationstechnik  
im DIN und VDE