

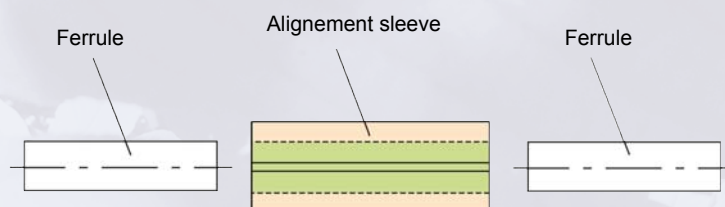
## WHAT a good Fiber Optic connection needs?



- ▶ That the light passes from the first connector of a joint to the second one, suffering the lowest possible attenuation.
- ▶ That by repeated mate/demate cycles the performance will not change.
- ▶ That attenuation performance stay steady even with random mating
- ▶ That joining different connector standards, the above mentioned properties still remain fulfilled.

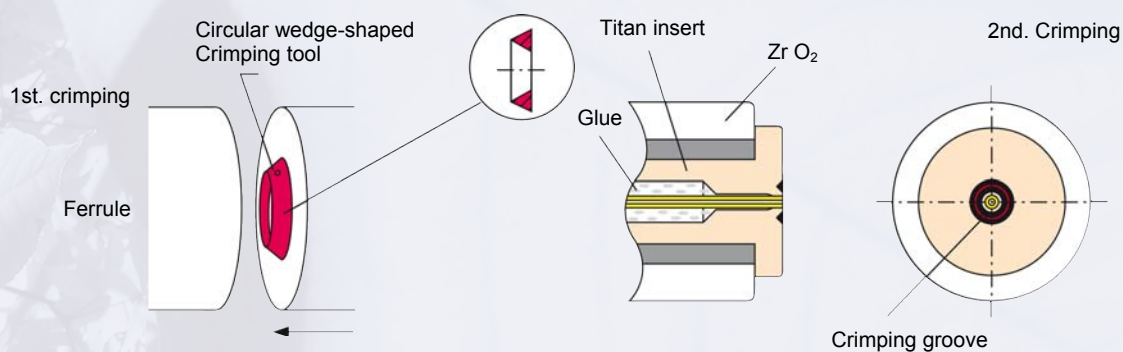
## WHEN do we have a high performances fiber optic connection?

- ▶ When the light exits and enters exact in the center of the ferrule.



## HOW do we realize this?

- ▶ By the use of a multi-component ferrule (zirconia-Titan). The metal end-face of the ferrule will be slightly deformed with a special made tool to center the fiber core into the axis of the ferrule.



## WHO is able to do it?

- ▶ This is made only at **DIAMOND** over the all connector range! The process is called „**Active Core Alignment**“ and is a patented **DIAMOND** technology!

## Is there another way to achieve the same result?

**NO!** Using other ferrule technologies an adjustment of the core position is not possible.

The only possibility is to measure at the end of the production and conform the tolerance range of the international standards