



# High Power Connectors

## SMA, D80 Optical Connectors with Copper Heatsink for High Performance



The SQS solution of high-power connectors is based on using copper ferrules with bored front face. The copper body allows better heat dissipation and free-standing fiber tip minimizes the probability of damage by uncoupled light. Moreover the front part of the connector is epoxy free so there is no material that could easily burn.

The SQS team developed a new design of these connectors for even higher powers by adding a fiber end-cap to the front face. This solution ensures expansion of the Mode Field Diameter and thus reduces the power density at the glass-air interface to a level below the damage threshold.

Additional enhancement of these connectors could be done by using AR coating or mode stripping technology, which removes most of the light from fiber cladding.

### Features:

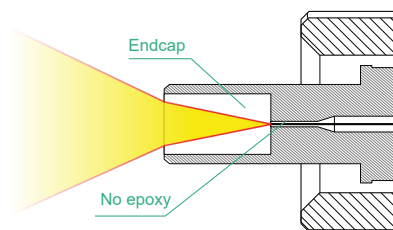
- Copper ferrule
- Free-standing fiber tip
- Epoxy free connector front
- Up to 300W\*
- Fiber diameter 125-1200µm
- PVC or metal tubing

\* For D80

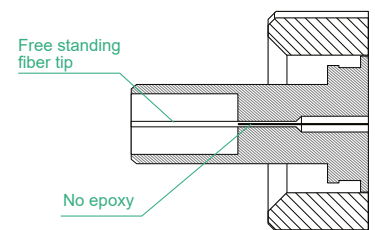
### Options:

- End-cap
- AR coating
- Mode-stripping
- Water cooled heatsink
- Key pin \*

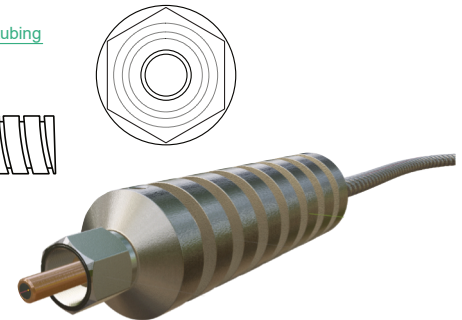
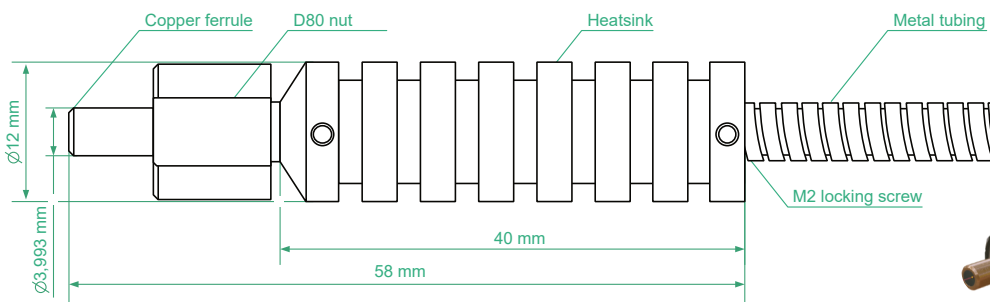
### Endcap Function



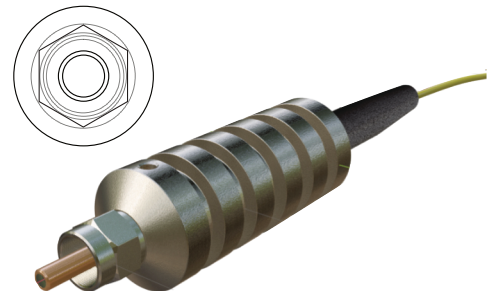
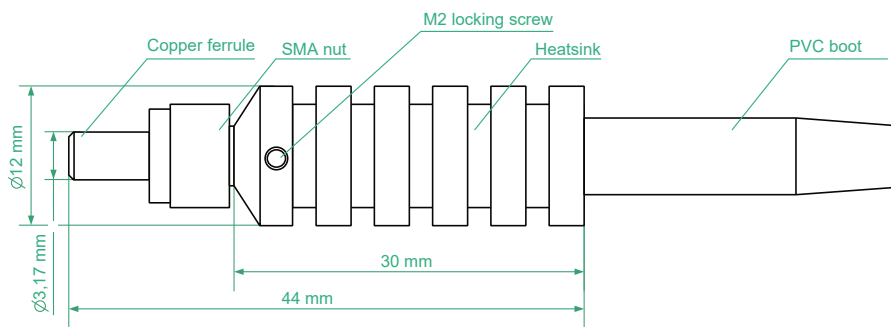
### Free Standing Fiber Tip



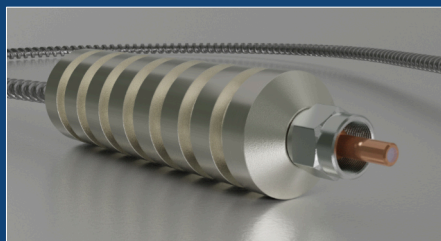
### D80 Connector Drawing



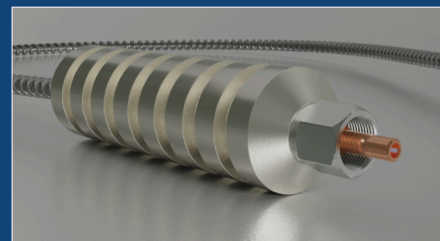
### SMA Connector Drawing



SMA 905 Connector - Endcap  
Metal Tubing



D80 Connector - Free Standing Fiber Tip  
Metal Tubing



D80 Endcap and SMA Free Standing Fiber Tip  
Metal Tubing

