



### LU1600A050 Fiber Coupler



#### Description:

Fiber to fiber coupler for easy fiber extension with a fiber patch cord. A broken fiber on a robot arm for example can be easily exchanged. A contaminated patch cord in a medical application can be exchanged by the operator.

Due to the broad wavelength range and wide power levels (including pulsed applications), the robust design of this 1:0.7 or 1:1 coupler suits a large number of applications.

#### Features:

- Wavelengths: 630 to 1600nm
- Power Level: 1W to 50W
- Coupling 1:0.7 or 1:1
- Efficiency typically >85% with quartz non-coated fiber
- SMA 905 -> SMA 905

#### Benefits:

- Stainless-steel case
- Small Foot Print; easy to mount
- Robust Design
- OEM Quantity

#### Applications:

- Fiber exchangeability or Fiber extension in:
- Medical System
  - Material Processing
  - Pumping
  - Illumination

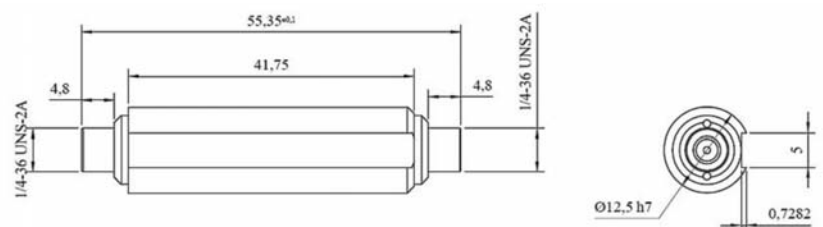
#### Examples for coupled Fibers:

- 1:1 Coupler
  - 100µm, NA 0.22 into 200µm, NA 0.22
  - 200µm, NA 0.22 into 300µm, NA 0.22
  - 300µm, NA 0.22 into 400µm, NA 0.22
- 1:0.7 Coupler
  - 250µm, NA 0.15 into 200µm, NA 0.22
  - 500µm, NA 0.15 into 400µm, NA 0.22

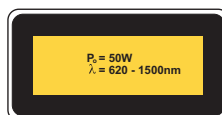
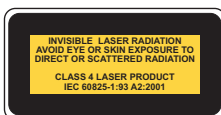
#### Module Drawing (Dimensions in mm)

Example: Special 1:0.7 Coupler

Drawing may be modified depending on specifications.



#### User Safety



Your ideas are welcome.