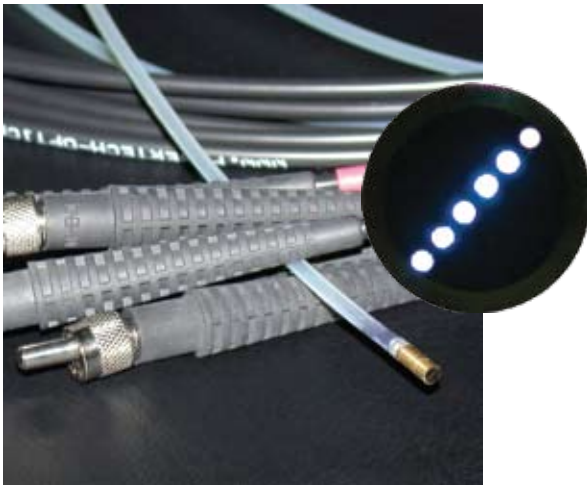


## FEATURES

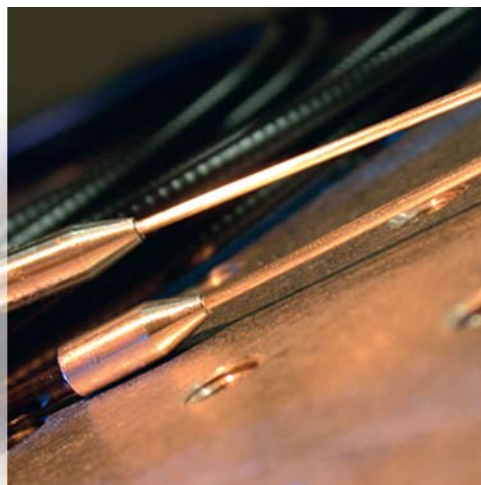
- single or multi-branch
- arbitrary geometries and fiber distributions
- custom end pieces
- application-specific designs and materials



*Array of 6 fibers spaced  $95\mu\text{m}$  apart inside 2.6 mm in diameter, 6 mm long ferrule made of black Delrin to prevent scattering*



*Reflectance probe,  
2 fibers inside SMA connector*



## NEEDLES

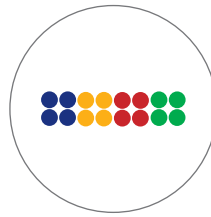
- single or multiple fibers
- straight or angle polished
- smallest diameter  $250\mu\text{m}$
- typical length: 40 mm

*6-around-1 needle,  $950\mu\text{m}$  in diameter*

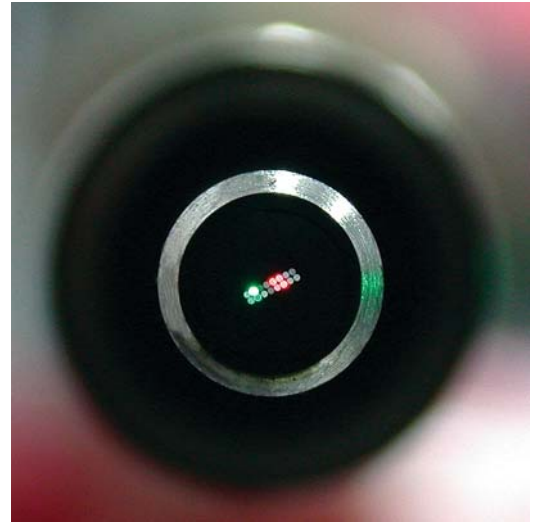


## FEATURES

- single or multi-branch
- arbitrary geometries and fiber distributions
- custom end pieces
- application-specific designs and materials



*Multi-branch bundle  
with a 4x4 array of 100 $\mu$ m fibers  
inside a SMA connector*



*Needle tips of a multi-branch bundle;  
25 mm long, 250 $\mu$ m diameter*



## FEATURES

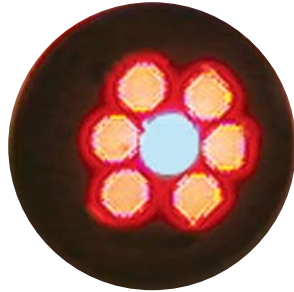
- single or multi-branch
- arbitrary geometries and fiber distributions
- custom end pieces
- application-specific designs and materials



*4 mm diameter reflectance probe  
with 100µm, 200µm and 400µm core fibers*



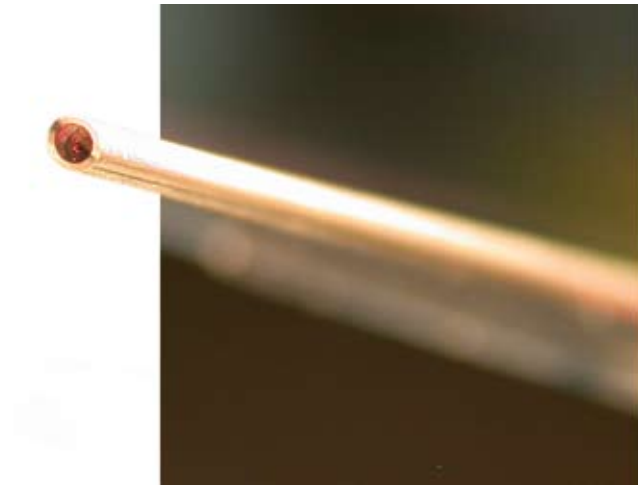
*Needle tips of a 50-branch bundle;  
15 mm long, 250µm diameter*



*Through-window view  
of the fiber bundle*

## FEATURES

- needle tip: small diameter tubing
- wedged window
- low fluorescence adhesives
- epoxy-free light path



*Needle probe tip*

