

Accessories for fiber-coupled LED sources

Extension fiber patch-cords



Connectorized multi-mode fiber patch-cords are used for extension of the LED module pigtail length and for optical connections between the LED source and other modules. Specialty multiple fiber patch-cords for multi-channel LED sources can be manufactured on request.

Available fiber core diameters:

POF: 500 μm , 980 μm and 1500 μm

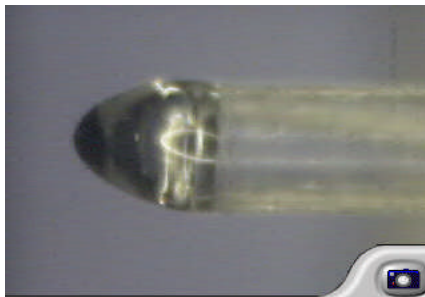
Glass: 10 μm , 50 μm ; 62.5 μm ; 105 μm ; 240 μm ; 400 μm ; 600 μm

Connectors: FC/PC; SMA; ST

Fiber protection: primary-coated, 0.9 mm and 3 mm jacketed

Fiber length: 0.5-5 m

Cone-lensed POF pigtail



Cone lensing of multi-mode plastic fiber allows focusing image of the fiber core at a distance of ~ 0.1 - 0.3 mm from the lensed fiber end.

Miniature cone lenses can be made at the end of POF, having core diameter of 1-1.5 mm.

Fiber protection: primary-coated or 3 mm jacketed

Fiber length: 0.5-1 m

Connectors: flat polished (no connector); FC/PC; SMA; ST

For glass lensed fibers, please visit our website www.wttechnology.com

Tapered POF pigtail



Tapering of multi-mode plastic fiber allows gradual reduction of the fiber core diameter from 1 or 1.5 mm down to ~ 0.1 - 0.3 mm within ~ 1 - 5 cm of length.

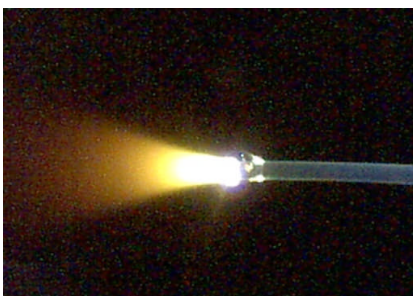
Miniature lens can be manufactured at the tapered fiber end.

Fiber protection: primary-coated or 3 mm jacketed

Fiber length: 0.5-1 m

Connectors: flat polished (no connector); FC/PC; SMA; ST

Ball-lensed POF pigtail



Ball lensing of multi-mode plastic fiber allow moving image of the fiber core at a distance of ~ 1 -3 mm from the lensed fiber end.

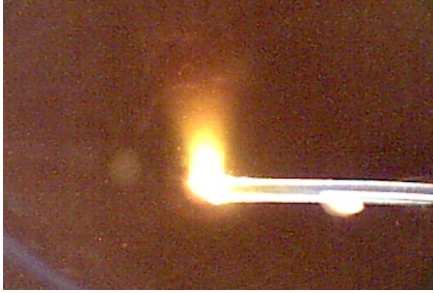
Miniature ball lenses can be made at the end of POF, having core diameter of 980 and 1500 μm .

Fiber protection: primary-coated or 3 mm jacketed

Fiber length: 0.5-5 m

Connectors: flat polished(no connector); FC/PC; SMA; ST

Angled end POF pigtail



Angled end polished POF pigtails has high reflectivity metal mirror positioned at angled fiber surface and can be embedded into high refractive index liquids/epoxies. Angled fibers are used for deflection of light beam by 80-100 Deg and can be made at the end of POF.

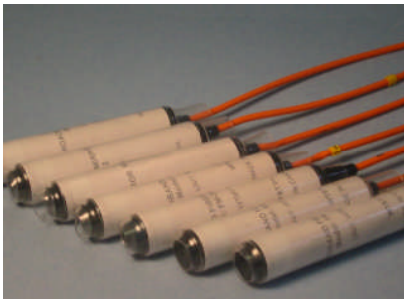
Fiber protection: primary-coated or 3 mm jacketed

Fiber length: 0.5-1 m

Connectors: flat polished/no connector; FC/PC; SMA; ST

For glass angle-polished fibers, please visit our website

Plastic fiber reflector



Connectorized plastic fiber mirror (reflector) is used as a reflectivity reference for reflected optical signal measurement in optical fiber networks. Also, this fiber component can be used in fiber interferometers and optical delay lines.

Fiber core diameter: POF 980 um or 1500 um

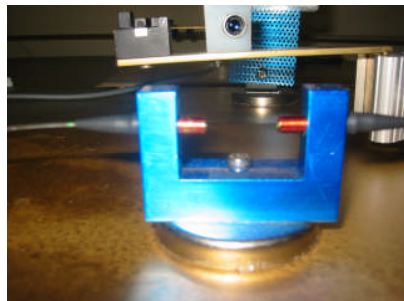
Connectors: FC/PC; SMA; ST or flat polished fiber end

Fiber protection: primary-coated or 3 mm jacketed

Fiber length: 0.1-1 m

Reflectivity: up to ~ 90%

Plastic fiber pigtail with an optical collimator



Connectorized plastic fiber pigtail with miniature optical collimator at the end can be used for local illumination or collection of light into optical fiber. A pair of pigtailed fiber collimators mounted into an optical U-bench holder provides setup for absorption spectra measurements of different bulk samples.

Fiber core diameter: POF 980 um or 1500 um

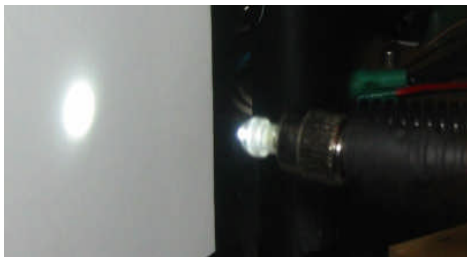
Connectors: FC/PC; SMA; ST

Fiber protection: primary-coated or 3 mm jacketed

Fiber length: 0.6-1 m

Fixed focus

Snap-on collimator for POF



Snap-on fiber collimator can be attached directly to optical connector of POF patch-cord and can be used to reduce divergence of optical beam emerging from high NA plastic fibers or for coupling of light into fiber pigtail.

Compatibility: FC/PC, ST, SC connectors or SMA-connector

Size: ~ 6x12 mm

Adjustable focus