



**福津光电**  
PHOTONSTREAM

Optical fiber micro-processing  
and thin film coating

## D80 Optical Fiber Cable

### ▶ INTRODUCTION

PHOTONATREAM produce high quality D80 cable in different fiber-core diameters from 200 microns to 1000 microns for high-power laser delivery, with our super precisely polished fiber end face and none epoxy surrounded design, the free standing fiber tip with good- heat-conducting copper ferrule assembly allows for hundred-watt of laser beam optical power coupling to a single core flexible D80 patch cable.

### ▶ FEATURES

- ◆ Free-standing fiber tip minimizes damage by uncoupled light, end-cap and sapphire design is for options
- ◆ High quality surface: visual inspection under 200X microscope.
- ◆ Copper ferrule with good heat-conducting
- ◆ AR coating is option for high power laser transition
- ◆ Compatible for other brands like Mitsubishi, Miyachi, Han's Laser

### ▶ PICTURES



Armored cable assembly



Fiber tip surface quality



Epoxy free design



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## ▶ D80 FIBER CABLE SPECIFICATION

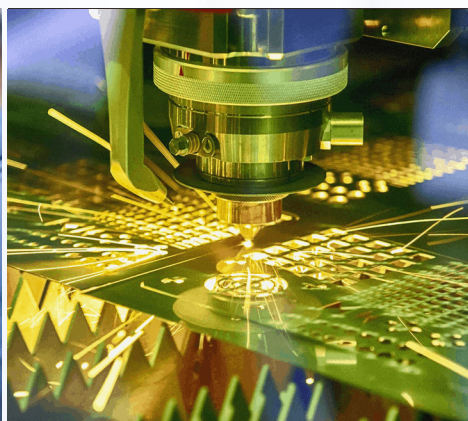
Fiber Core Diameter ( $\mu\text{m}$ )	200, 300, 400, 600, 800, 1000
Fiber Core Material	High purity fused silica (Low-OH)
Fiber Tip Design	Air gap as standard, sapphire and end-cap is option
Fiber Type	Step-index fiber as standard; Graded-index on request
Numerical Aperture (NA)	0.22 as standard, others on request
Operating Wavelength(nm)	400-2400
Protection Tube Diameter (mm)	8
Tube Color	Green/Yellow
Cable Lengths (m)	3, 5, 10, 20, etc. (customizable)
Anti-reflection Coating	$R < 0.2\%$ @ $\text{CW} \pm 25\text{nm}$ or others on request

**Note:** The specification here is only for reference, for each customized order, please provide more detail information.

## ▶ APPLICATION



Laser welding



Laser cutting



High power laser transmission

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