



福津光电
PHOTONSTREAM

Optical fiber micro-processing
and thin film coating

Thin Film Coating for Optics Fiber

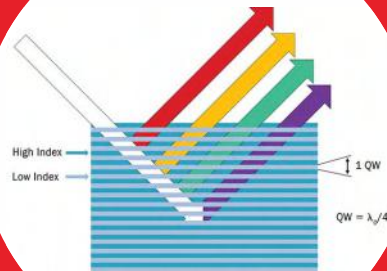
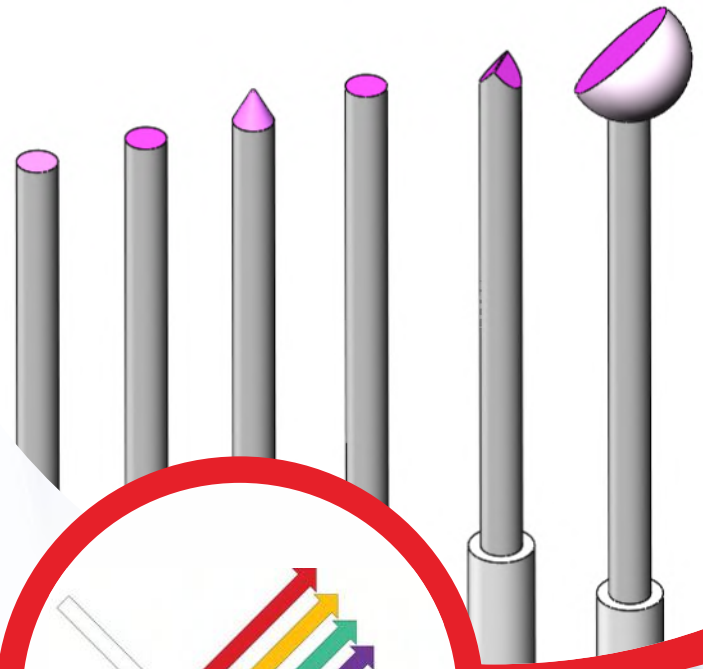
▶ INTRODUCTION

Like most of the optical elements, optical thin film deposition is necessary and applied on the glass substrate fiber tip. With different thickness and layer number design, we can obtain variety kinds of optical spectrum function like Anti-Reflection, Band Pass, High Reflection or Dichroic Mirror. With more than 10 years experience of optical fiber thin film coating, PHOTONSTREAM has develop state-of-the-art, the in-house Ion-Beam Assisted Deposition (IAD) process for precision, super cleaning surface quality and high damage threshold for mass optics fiber product with moderate costs.

▶ FEATURES

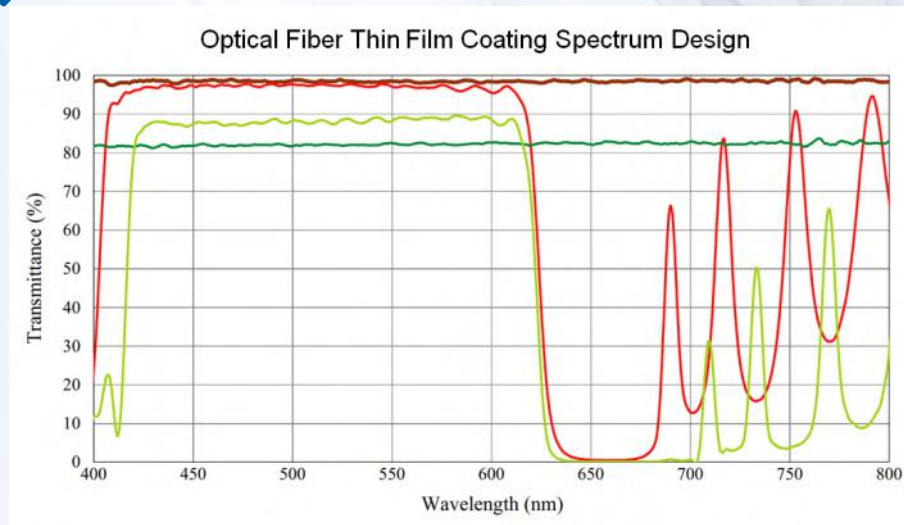
- ◆ Professional coating layer design
- ◆ Wide band for different wavelength
- ◆ High cleanness quality of fiber tip end face
- ◆ High laser damage threshold
- ◆ Suitable for different core of optics fiber
- ◆ AR coating is applicable for Lensed fiber, Fiber pigtail, cable and patch cord

▶ THE COATED FIBER SURFACE PICTURE



Shenzhen Photonstream Limited
Email: contact@photonstream.com
Tel: 0086-755-84166678
Fax: 0086-755-84560576
Web: www.photonstream.com
Add: 2F,BLDG 6,#168,ChangshanIZ,
Liulian,Pingdi,Longgang District,Shenzhen,China





▶ SPECIFICATIONS OF OPTICS FIBER THIN FILM COATING

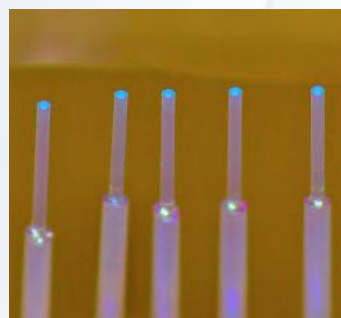
| Parameter | Example |
|---------------------------------------|---|
| Optical coating specification | 1.AR Coating: $R < 0.2\%$ @ $\lambda_1 \sim \lambda_2$ 2.HR Coating: $R > 99.9\%$ @ $\lambda_1 \sim \lambda_2$ 3.DR Coating: $R < 0.2\%$ @ $CW \pm 20nm$, $R > 99.5\%$ @ $\lambda_1 \sim \lambda_2$ 4.Custom design |
| Optical fiber type | Bare fiber/pigtail/Patch cord |
| Operation WL | $CW \pm 20nm$ |
| Length of cable | $X.X \pm 0.1$ meter |
| Protect jacket or loose tube diameter | $x.x$ mm Stainless Armor with PVC cover |
| Coating on single or both terminal | Both |
| Max temperature of cable | 80°C |
| Max bending radius | $< 10cm$ |
| Other information | High vacuum impact |

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

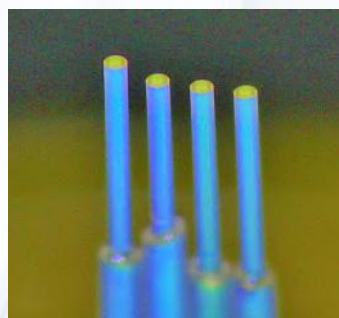
▶ OPTICS FIBER POST COATING SAMPLE



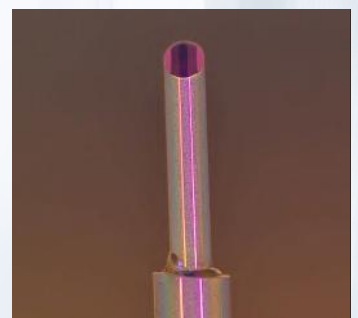
AR coating



Band Passcoating



Dicroic Coating



Hi-reflection coating