

Special Cutoff Wavelength Single-mode Fibre (SW-SMF)

YOFC SW-SMFs are optimized in the core parameters and waveguide structure on the basis of ordinary single mode fibre. It takes advantage of PCVD process to realize operating wavelength of single-mode transmission under 980nm.

Characteristics

- Single cladding step profile
- Good Geometrical uniformity
- Good mechanical properties

Application

- Special light source device
- Pump tail fibre
- Coupler
- Compact optical device

Specifications

| Fibre Type | SW 630_125-13/250 | SW 780_125-14/250 |
|--|---------------------|----------------------|
| Part No. | SW1010-A | SW1011-A |
| Optical Properties | | |
| MFD(μm) | 4 \pm 0.4 (630nm) | 4.5 \pm 0.4(780nm) |
| NA(typical value) | 0.13 | 0.14 |
| Attenuation (dB/km) | \leq 8 (630nm) | \leq 4.3 (780nm) |
| Cut-off Wavelength (nm) | 570 \pm 50 | 720 \pm 50 |
| Geometrical Properties | | |
| Cladding Diameter(μm) | 124.8 \pm 0.7 | 124.8 \pm 0.7 |
| Cladding Non-circularity(%) | \leq 1.0 | \leq 1.0 |
| Core/Cladding Concentricity(μm) | \leq 0.6 | \leq 0.6 |
| Coating Diameter(μm) | 245 \pm 7 | 245 \pm 7 |
| Curl(m) | \geq 4 | \geq 4 |
| Mechanical Properties | | |
| Proof Test Level(kpsi) | 100 | 100 |
| Spool Length(km) | 2~25 | 2~25 |
| Environmental Properties | | |
| Operating Temperature($^{\circ}\text{C}$) | -60~+85 | -60~+85 |