



## Fiber Optical Cable-Type Q8 (Indirect water cooling)

### Features

- High Handling Power
- Water Cooling System & Compatible Design
- Cladding Mode Stripper Integrated
- Interlock System Integrated
- Excellent Environmental Stability and Reliability

### Applications

- Fiber Lasers
- Research & Design
- Laser Cutting
- Laser Cleaning
- Laser Welding

### Specifications

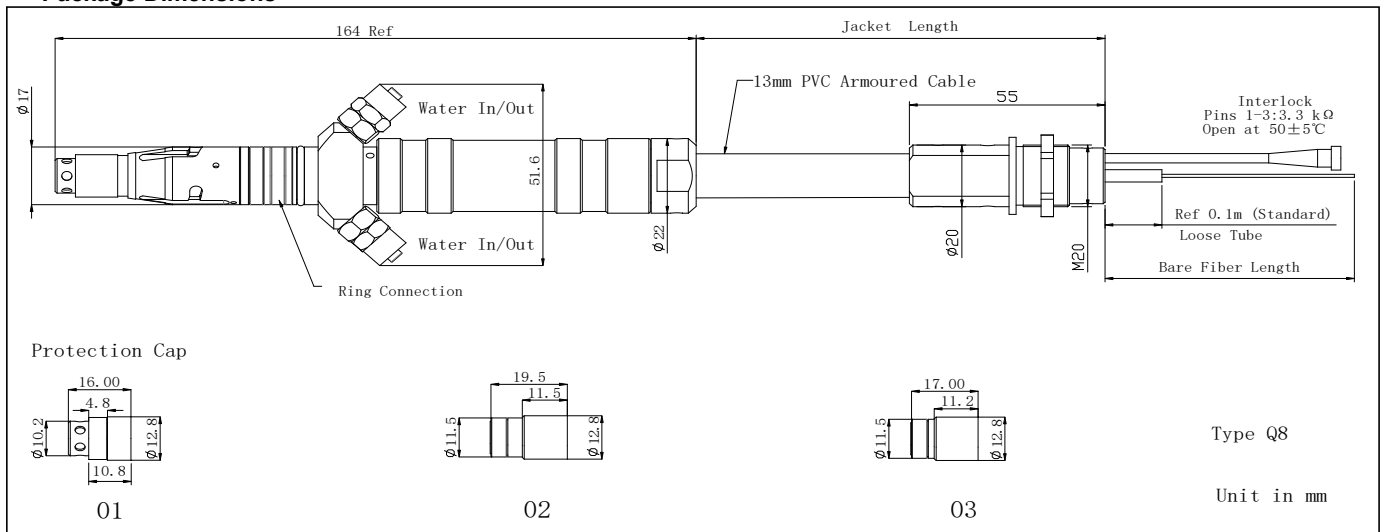
| Parameters                     | Unit  | Values  |
|--------------------------------|-------|---|
| Operating Wavelength           | nm    | 900~1000 (Nominal Center Wavelength 950nm)<br>1030~1090 (Nominal Center Wavelength 1064 nm) |
| Typ. Transmission Ratio        | -     | 99%   |
| Min. Transmission Ratio        | -     | 98%   |
| Max. Handling Power (CW)       | W     | 1000, 2000, 4000, 6000 , 8000 or Specify  |
| Pulse Power                    | -     | Max. 10KW @10ms<br>Max. 50KW @1ms<br>Max. 1MW @50ns   |
| Loss Power Handling Capability | -     | 1KW for 10 min<br>500W Continuously   |
| Nominal Beam Pointing Accuracy | deg   | 1   |
| Min. Beam Ellipticity          | -     | 0.92  |
| Max. Fiber Tensile Load        | N     | 5   |
| Package Material               | -     | Stainless Steel / Aluminum / Copper   |
| Operating Temperature          | °C    | +10 to +50  |
| Storage Temperature            | °C    | -10 to +75  |
| Max. Water Pressure            | Bar   | 8   |
| Flow of Water                  | L/min | 1.5-3   |
| Fiber Length ≤15 m             | -     | The Fiber Length Tolerance is -10cm   |
| 15m<Fiber Length ≤30m          | -     | The Fiber Length Tolerance is -20cm   |
| Jacket Length ≤15m             | -     | The Jacket Length Tolerance is +0.2/-0.1m   |
| 15m<Jacket Length ≤30m         | -     | The Jacket Length Tolerance is +0.4/-0.2m   |

\*The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

\*For FOC without window, the transmission @635nm is around 80%.

\*The material must be RoHS&REACH compliant.

### Package Dimensions



**Ordering Information**

**FOC-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦-⑧⑧-⑨⑨**

①①: Wavelength

06 - 1064nm

08 - 1080nm

SS - Specify

②②: Connector Type

QB - QBH Compatible

③③: Handling Power

1000 - 1000W

1500 - 1500W

2000 - 2000W

3000 - 3000W

3500 - 3500W

4000 - 4000W

4500 - 4500W

6000 - 6000W

8000 - 8000W

S - Specify

④④: Fiber Type

01-Nufern GDF-20/400-M NA0.065

03-Nufern BD-S100/120/360-STN NA0.22

08-Nufern LMA-GDF 25/400-M NA0.065

10-Nufern BD-S50/70/360-STN NA0.22

11-Coractive DCF-UN 50/400 NA0.12

20-Nufern LMA-GDF- 30/250-M NA0.06

SS - Specify

⑤⑤: Jacket Length

10 - 10m 13mm Armoured Cable

15 - 15m 13mm Armoured Cable

18 - 18m 13mm Armoured Cable

20 - 20m 13mm Armoured Cable

22 - 22m 13mm Armoured Cable

23 - 23m 13mm Armoured Cable

SS - Specify

⑥⑥: Bare Fiber Length With Loose Tube

01 - 1 m

1.5 - 1.5 m

02 - 2 m

SS - Specify

⑦⑦: Package Type

Q8 - Type Q8

⑧⑧: Protection Cap Type

01 - Aluminum Without Window

02 - Aluminum With Window For SM Fiber

03 - Aluminum With Window For MM Fiber

SS - Specify

⑨⑨: Water Pipe Length

05 - 5×2m

NN - None

SS - Specify