

Lightel's QBH-style cable assembly for high power laser delivery provides low signal loss and excellent beam quality with power handling up to 2 kW. Our QBH-style laser heads are equipped with a safety interlock and are available in air-cooled or water-cooled versions with an anti-reflection coated quartz block to reduce power density at the output. In addition, all cables are offered with an optional integral cladding power stripper (CPS) to reduce any cladding modes due to beam reflections. The assemblies are available in standard or customer specified armored pigtail lengths and colors.

### Features

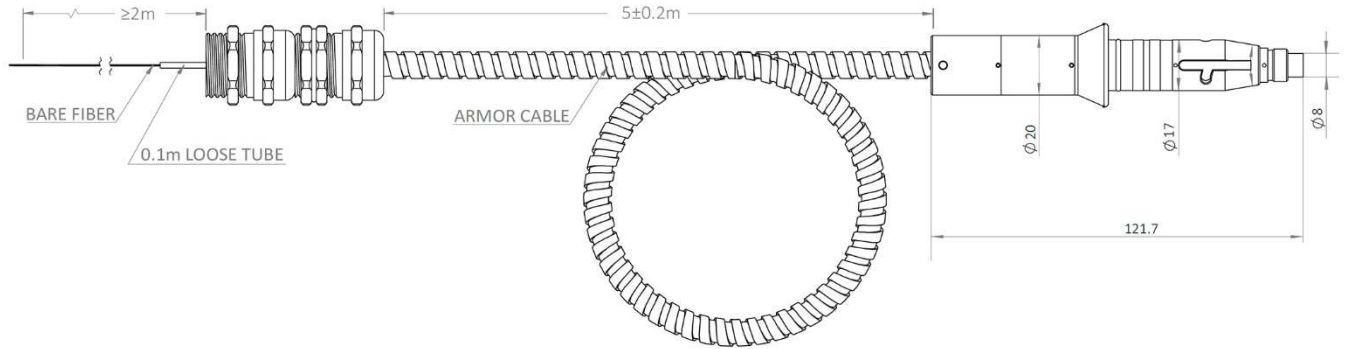
- Low Signal Loss
- High Beam Quality
- Anti-Reflection Coated Quartz Block
- Air- or Water-Cooled
- Optional Integral Cladding Power Stripper



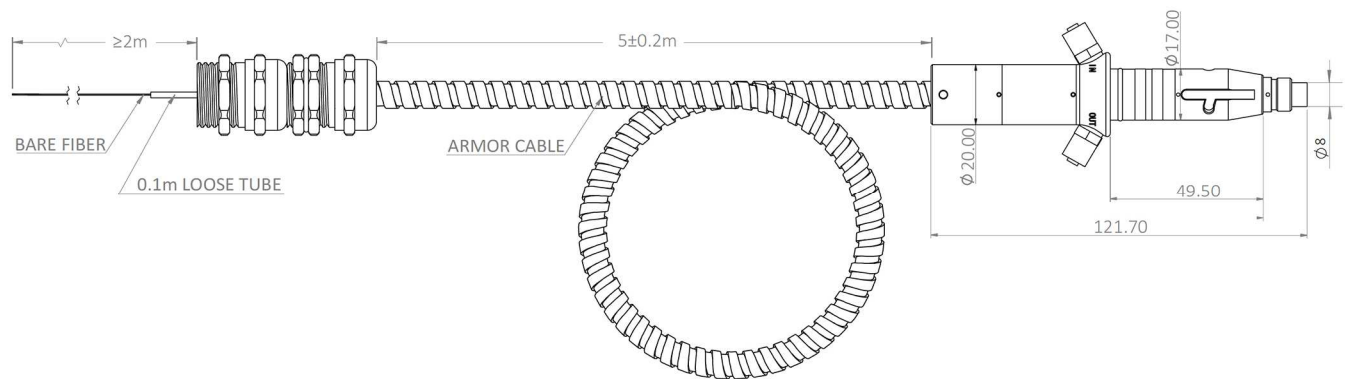
### ➔ Specifications

| Parameter                                     | Specification                               |
|---|---|
| Port Configuration                            | Fiber in, free-space out                    |
| Signal Wavelength                             | 915, 1060, 1080, 1940, 2000 nm              |
| Signal Insertion Loss                         | < 0.13 dB                                   |
| Output Beam Ellipticity                       | > 95% (for single mode input)               |
| Power Handling                                | Air-cooled: ≤ 200 W<br>Water-cooled: ≤ 2 kW |
| Tensile Load                                  | 25 kg                                       |
| Armored Length (B)                            | 1 – 20 m                                    |
| Fiber Pigtail                                 | 0.5 – 2 m                                   |
| Operating Temperature                         | 0 ~ 75°C                                    |
| Storage Temperature                           | -40 ~ 85°C                                  |
| Cladding and Back Reflection Power (with CPS) | Air-cooled: < 10 W<br>Water-cooled: < 500 W |

## ➔ Mechanical



**Air-Cooled**



**Water-Cooled**

## ➔ Ordering Information

| <u>Q</u> | <u>B</u> | <u>H</u> |                                  |                     |   |   |                                    |                     |
|----------|----------|----------|----------------------------------|---------------------|---|---|------------------------------------|---------------------|
|          |          |          | <b>Cooling Mode</b>              | <b>CPS</b>          | <b>Wavelength</b>   | <b>Cable Length</b>                           | <b>Fiber Pigtail</b>               | <b>Special Code</b> |
|          |          |          | 1: Air-cooled<br>2: Water-cooled | 1: CPS<br>2: No CPS | 1: 915 nm<br>2: 1060 nm<br>3: 1080 nm<br>4: 1940 nm<br>5: 2000 nm | 01: 1 m<br>02: 2 m<br>•<br>•<br>•<br>20: 20 m | 0.5: 0.5 m<br>•<br>•<br>2.0: 2.0 m |                     |

Note: Contact Lightel for fiber type.