

D600 - kW Class Laser Connector Cables

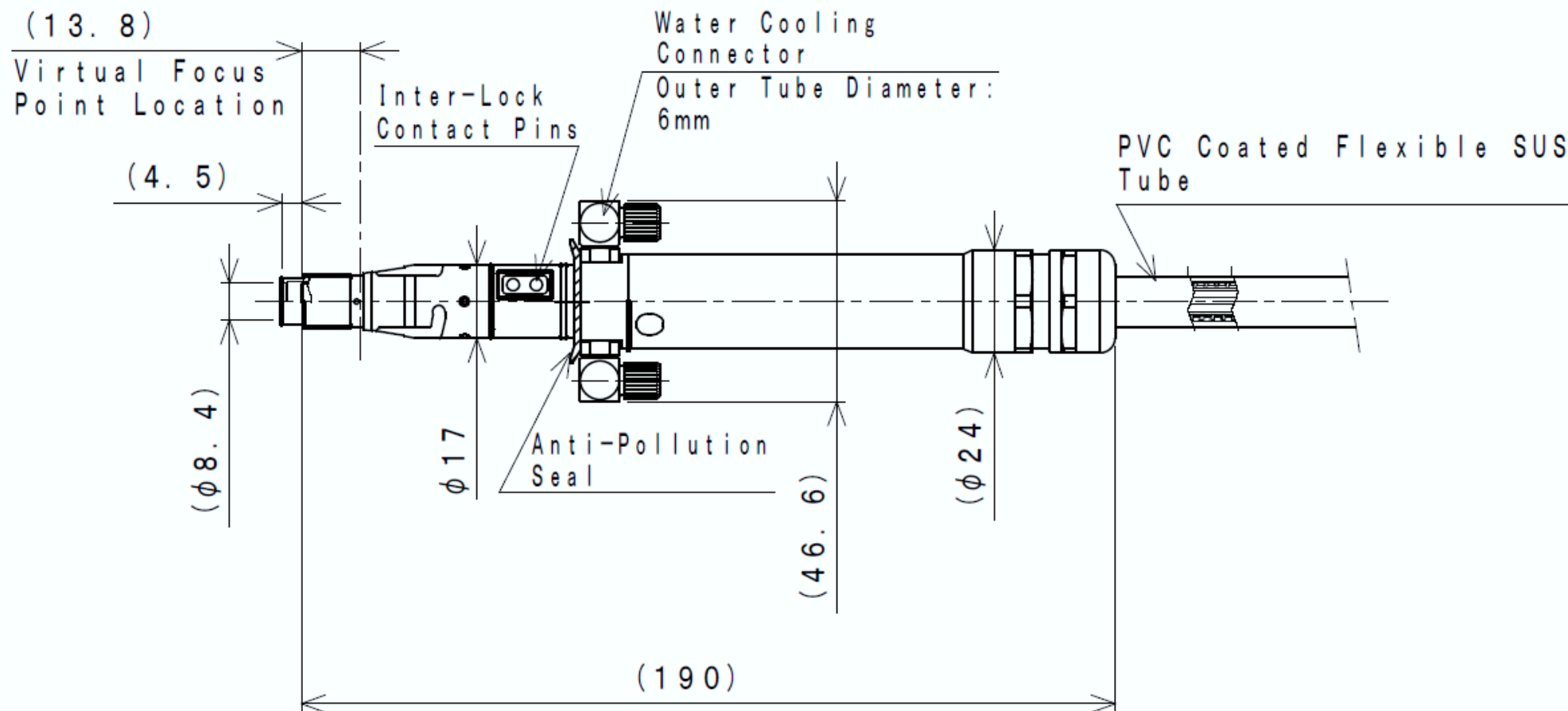


- Applicable for **kW class^(*1)** high power laser delivery
- **Anti-Reflection coated quartz block** to reduce the power density of the laser light input
- **Mode stripper** to remove cladding mode light
- **Water cooling** - Does not require DI water
- **Various fiber core diameters** are available.
- **Polygonal core fibers** are available.
- High Reliability & Safety Features
 - **temperature sensor, contact switch, safety interlock**
- Compatible with **QBH** connector
- Pigtail type cables are available for feeding fiber use

NOTE:

(*1) Wavelength 1060nm. The damage threshold shall depend on the actual light input conditions.

D600 Connector



The above drawing is a typical example and reference purposes ONLY. Please refer to the official specification which will be submitted by MCI at time of quotation.

List of applicable optical fibers for D600 connector

SI - Step Index Round Core Multi-Mode Optical Fiber

Wavelength Range	Numerical Aperture - NA	Core Dia. (μm)	Fiber Dia. (μm)	Minimum Bend Radius* (mm)	Type Name
VIS -> NIR	0.20	100	500	100	VIS-IR20
	0.20	200	500	100	
	0.20	300	500	100	
	0.20	500	750	150	
	0.22	100	500	100	VIS-IR22
	0.22	300	500	100	

Note: *Short term bend duration

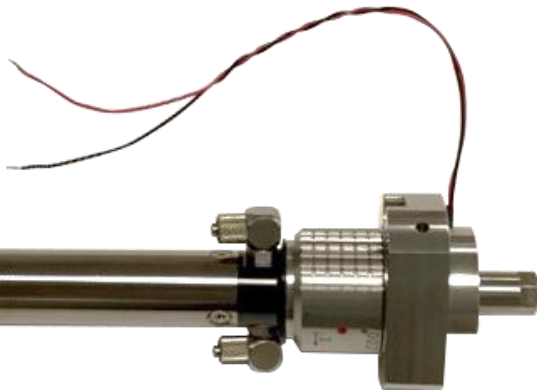
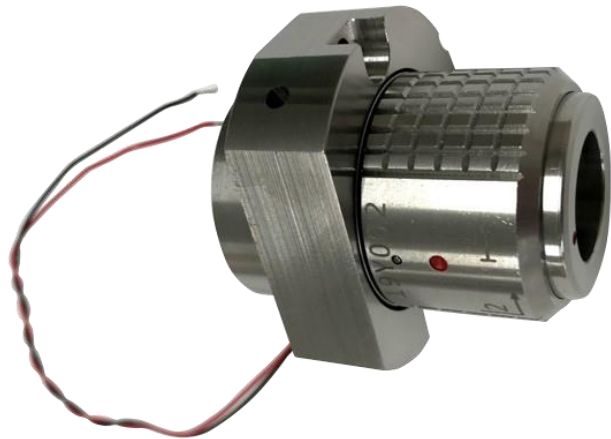
Step Index Polygonal Core Multi-Mode Optical Fiber

Wavelength Range	Numerical Aperture - NA	Core Size	Fiber Dia. (μm)	Minimum Bend Radius* (mm)
VIS -> NIR	0.20	100μm × 100μm Square	500	100
	0.20	Hexagon with 200μm Face Edge	500	100

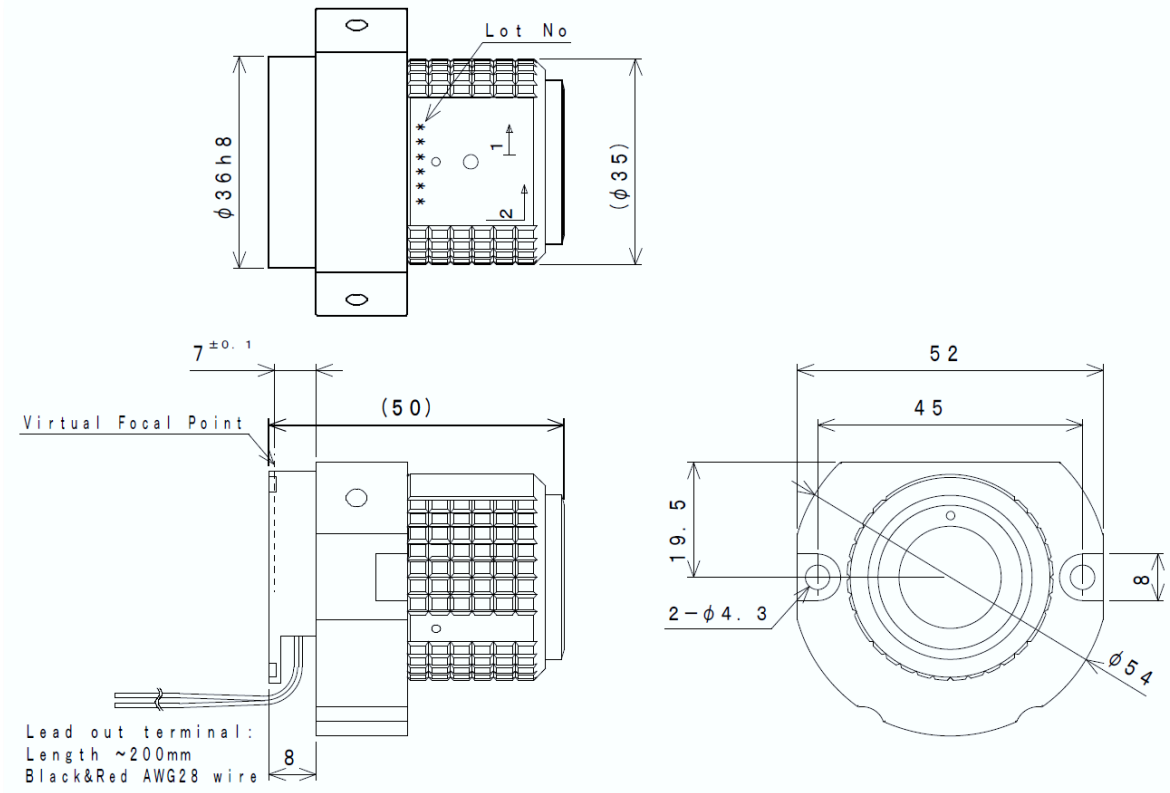
Note: *Short term bend duration

Core diameters and sizes other than those shown above may be available. Please contact us.

Receiver for D600 – Flange Type



Connector housed in Receiver

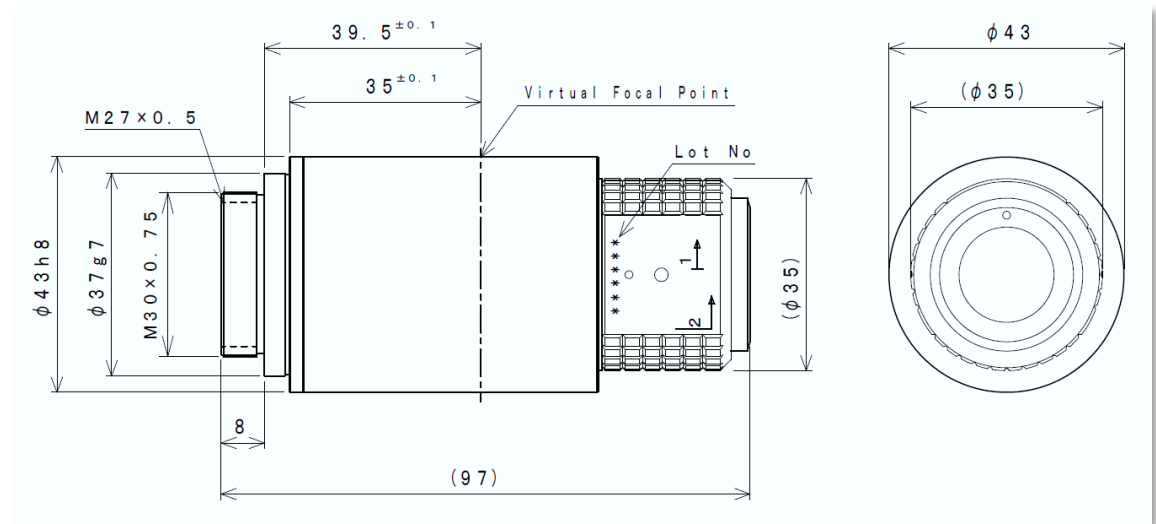


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Interlock System Wires to allow detection of two conditions:

1. Cable not inserted into receptacle
2. Broken fiber in cable

Receiver for D600 – Sleeve Type



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Connector housed in Receiver

Interlock System Wires to allow detection of two conditions:

1. Cable not inserted into receptacle
2. Broken fiber in cable