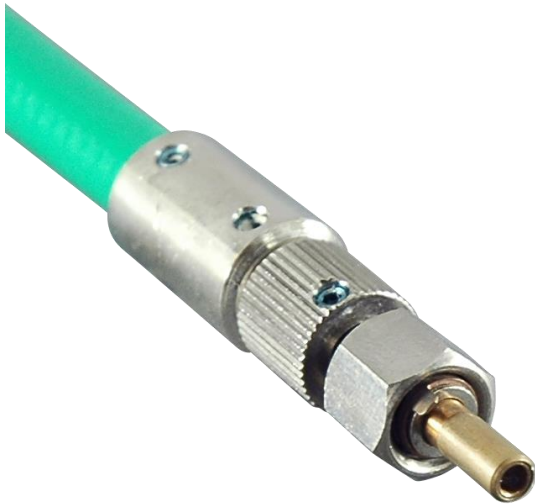
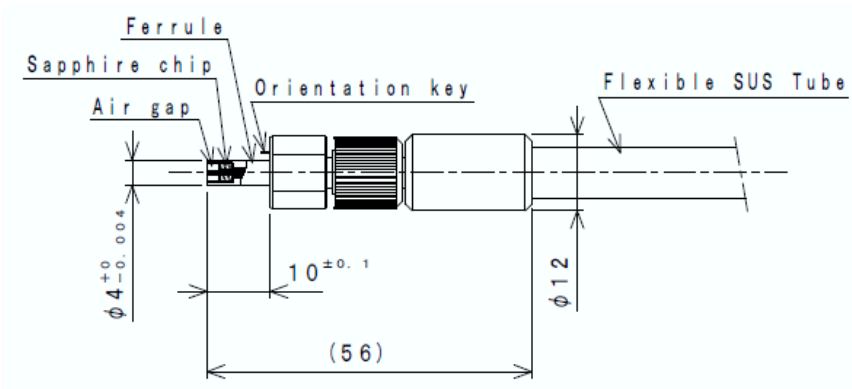


D-80LKA Type Connector



- Recommended for use with lasers with power **less than 600W** (*1)
- **Adhesive-free Air-Gap structure** to reduce cable damage possibility in case of miss-alignment
- Included sapphire chip to spread leaked light efficiently
- Anti-Reflection coating to increase coupling efficiency
- Option
- **Various fiber core diameters** are available.
- **Polygonal core fibers** are available.
Polygonal Core Fiber edge alignment error can be controlled using a connector key to less than +/- 3.0 degrees. - Option



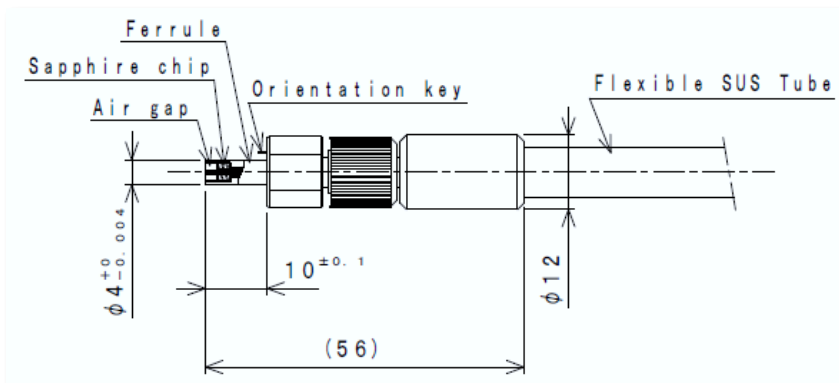
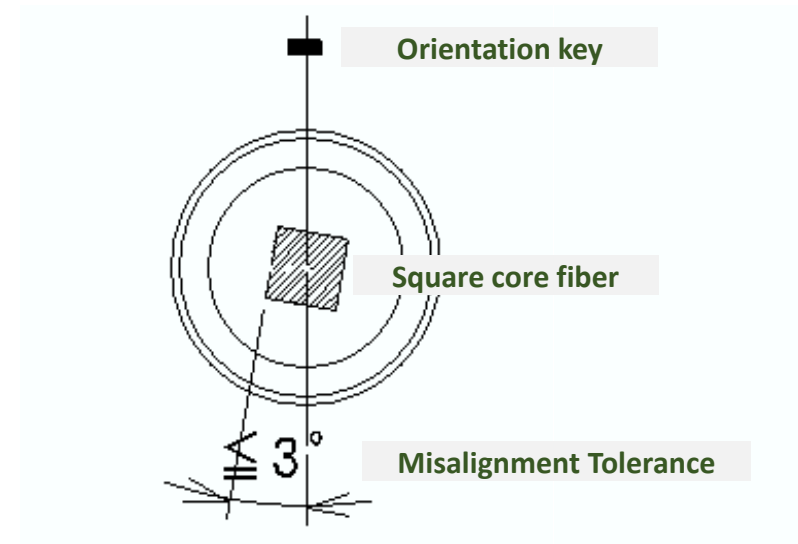
The above drawing is a typical example and reference purposes ONLY. Please refer to the official specification which will be submitted by MCI at time of quotation.

NOTE:

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

D-80LKA(Q) Connector

for Square/Rectangular Core Fiber



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.

- Polygonal Core Fiber edge alignment error can be controlled using a connector key to less than ± 3.0 degrees.

List of applicable optical fibers for D-80LKA 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) *
VIS -> NIR	0.20	100	500	100
		200	500	100
		300	500	100
		400	500	100
		600	750	150
		800	1000	200
		1000	1250	250
		1200	1500	300
UV -> VIS	0.22	200	440	100
		400	440	100
		600	660	150
UV -> VIS	0.20	400	500	100
		600	750	150
		800	1000	200
		1000	1250	250
		1200	1500	300

Note: *Short term bend duration

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

GI - Grated Index Round Core Multi-Mode Optical Fiber

Wavelength Range	Numerical Aperture - NA	Core Dia. (μm)	Fiber Dia. (μm)	Minimum Bend Radius (mm) *
VIS -> NIR	0.265	100	500	100
		200	500	100
		300	500	100
		400	500	100
		600	750	150
		800	1000	200

Note: *Short term bend duration

Step Index Polygonal Core Multi-Mode Optical Fiber

Wavelength Range	Numerical Aperture - NA	Core Dia. (μm)	Fiber Dia. (μm)	Minimum Bend Radius (mm) *
VIS -> NIR	0.20	50×50	500	100
	0.20	100×100	500	100
	0.20	175×175	500	100
	0.12	175×175	500	100
	0.20	350×350	1000	200
	0.12	350×350	1000	200
	0.20	600×600	1250	250
	0.15	88×175	500	100
	0.20	Hexagon with 200μm Edge	500	100

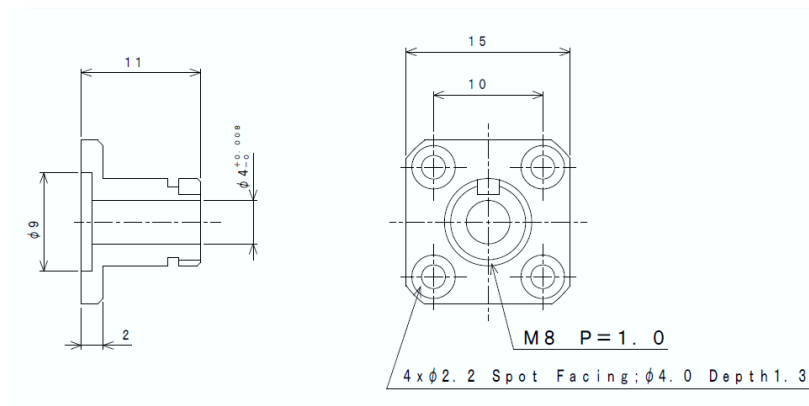
Note: *Short term bend duration

Bulkhead Receptacles for D-80LKA



D-80R

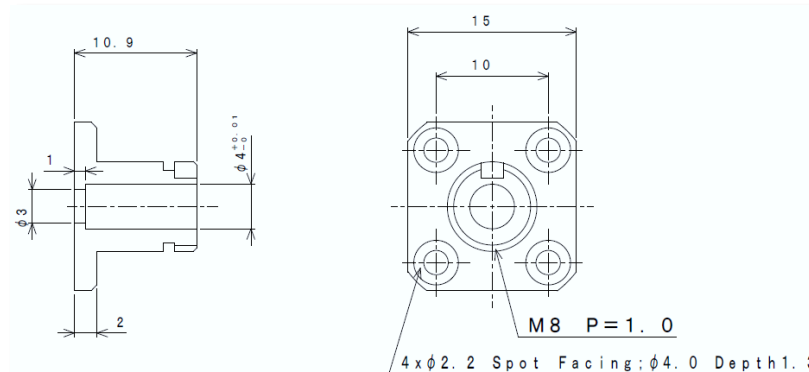
Material: Brass(Ni plating)



D-80RY

With butting plate for ferrule end (Z axis control)

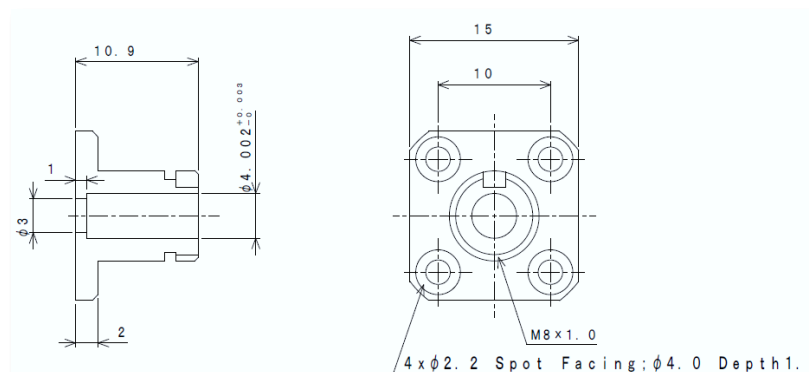
Material: Phosphor bronze
(Ni plating)



D-80RY(HQ)

High Precision Type
with butting plate for ferrule end (Z axis control)

Material: SUS303



D-80LKA connector housed in receptacle