

# Light Guides

## Points of light guide selection

### ● Making the illumination area small

The fiber size (element wire) and bundle diameter can be changed for manufacturing according to the customer's unique specifications

### ● Obtaining greater luminous energy

### ● Making illumination stable with few changes

### ● Covering the entire wavelength range of visible light

The customer can select the necessary light source from our lineup of light source units, such as Halogen and Metal Halide light sources. In addition, condensing lenses can be attached for focused or spot irradiation of powerful light from a remote source.

※When using a light guide for a cable pair, consult the sales department of Moritex.

※See page I-53 for combinations with light sources.

Moritex develops and manufactures multi-component glass and quartz light guides from its own drawn raw fibers. Many fibers as thin as only 50mm each are bundled and assembled in light guides of different shapes. When combined with light source devices, the light guides enable high intensity illumination free of noise and heat.

### ● Avoiding the influence of heat

A light guide allows the light source unit to be positioned at the customer's desired location. A fiber does not conduct heat well because its wavelength transmissivity is low in the heat range.

### ● Obtaining directive light

A light guide transmits light of different NA through the fiber material. This is optimal for illuminating a sample with directed light.

### ● Irradiating Ultraviolet and Infrared light using specific light guides for special purposes

For ultraviolet light: Use a quartz fiber (page I-84)

※Multi-component glass or plastic fibers do not conduct an ultraviolet ray.

※For infrared ray: Use a heat-resistant Multi-component glass fiber.

※An ordinary glass fiber does not have heat resistance to an infrared ray that generates heat. For details, consult the sales department.

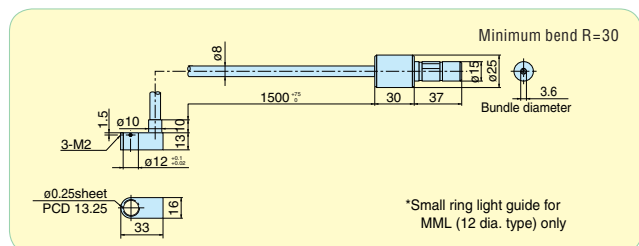


## Ring Light Guides

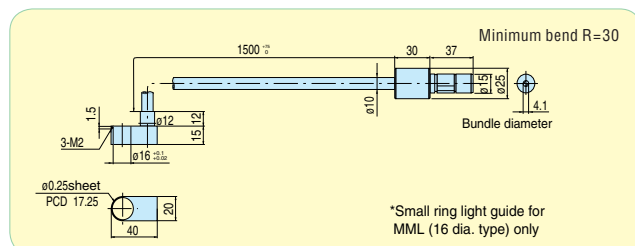
Illumination from 360° produces uniform light. These light guides are optimum for CCD camera and microscope inspections.



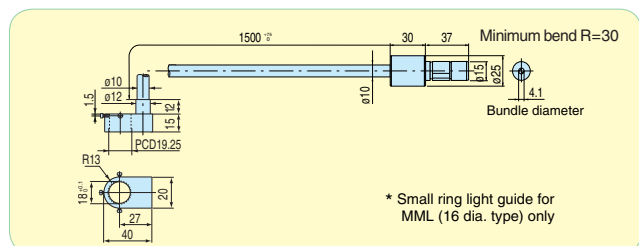
### MRP12-1500V



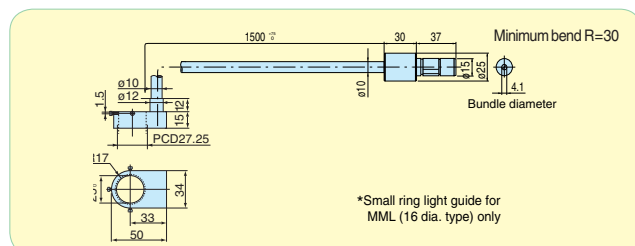
### MRP16-1500V



### MRP18-1500V



### MRP25-1500V



Model	Commodity Code
MRP12-1500V	A-0600
MRP16-1500V	A-0601
MRP18-1500V	A-0617
MRP25-1500V	A-0618
MRP30-1500V	A-0619
MRG25-1500S	A-0602
MRG31-1000S	A-0603
MRG31-1500S	A-0604
MRP31-1000S	A-0605
MRP35-1500S	A-0606

Model	Commodity Code
MRG40-1500S	A-0607
MRG48-1000S	A-0608
MRG48-1500S	A-0609
MRG53-1000S	A-0610
MRG53-1500S	A-0611
MRG61-1000S	A-0612
MRG61-1500S	A-0613
MRG75-1000S	A-0614
MRG75-1500S	A-0615

