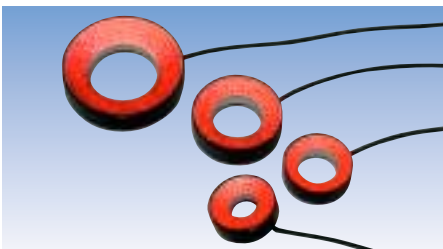
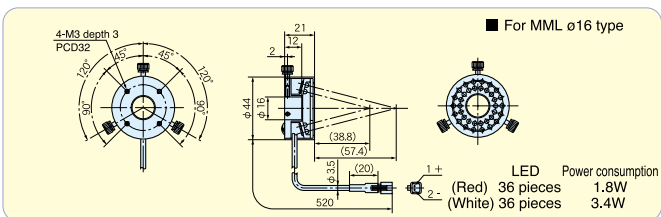


- Long life, compact, light weight LED lighting for image processing. High intensity LED is used.
- Various shapes of lighting such as ring and rectangular type, transmission-type, coaxial-type, and chip mounted type are available.
- Power source is 1-2 channel type. Manual light control, external lamp ON/OFF, external light control type, and digital light control type are available.

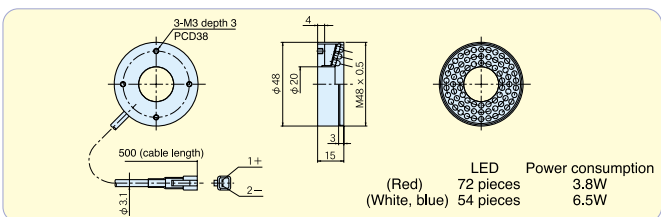
Direct ring type



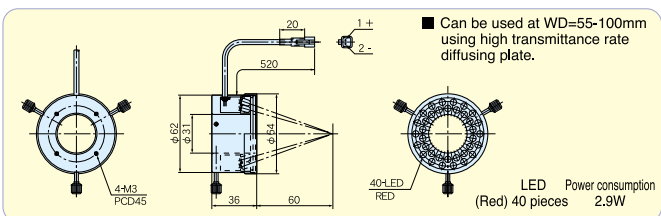
MRL-16/MRLW-16



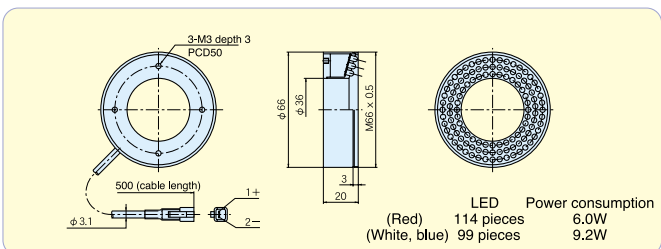
MRL-20/MRLW-20 / MRLB-20



MRL-31A-L Made to order



MRL-36/MRLW-36 / MRLB-36



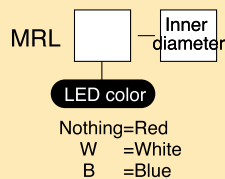
Features

High intensity LED is arranged at high density. Lighting from 360° creates even light with no shadows.

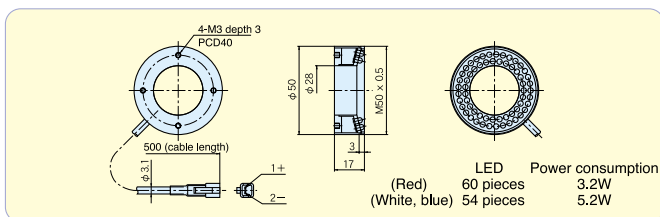
Applications

Substrate inspection, liquid crystal alignment, label inspection, plastic container inspection, mounter, IC impress inspection, two-dimensional code reader

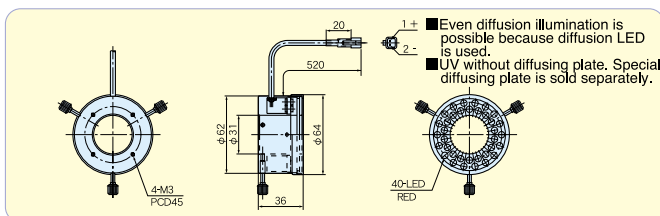
Model explanation



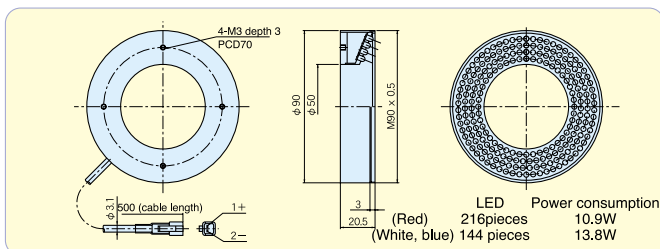
MRL-28/MRLW-28 / MRLB-28



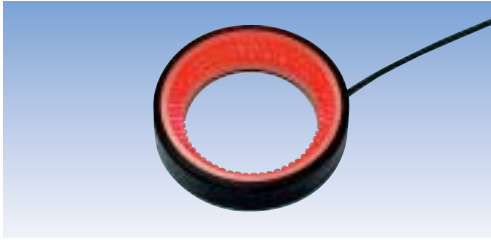
MRL-31A Made to order / MRL-31A-UV Made to order



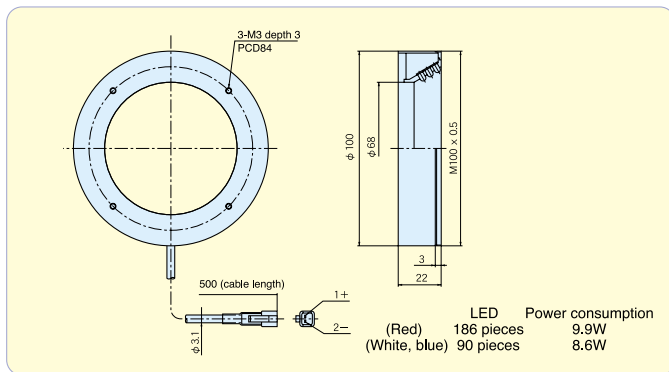
MRL-50/MRLW-50 / MRLB-50



Low angle ring type



MSL-68/MSLW-68
MSLB-68



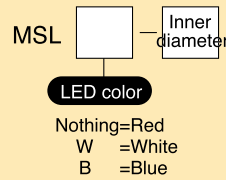
Features

Lighting from low angle of 360°, shiny objects are not reflected. Best for shallow unevenness (embossment, etc.) and scratches.

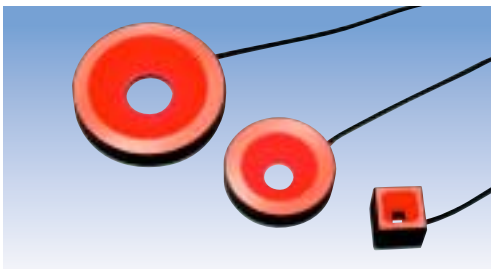
Applications

BGA solder ball position, shape, and area inspection; laser carving reading; inspection for scratches and dirt on wafer or glass substrates.

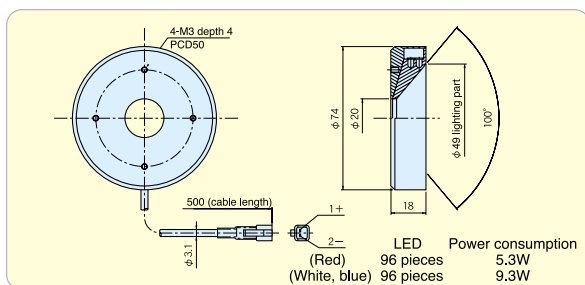
Model explanation



Shadow less ring type / shadow less square type



MKL-20/MKLW-20
MKLB-20



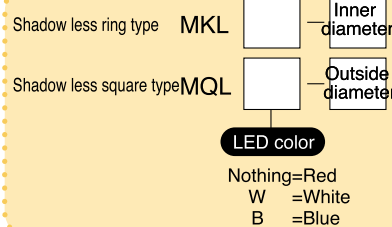
Features

Even, soft, diffused lighting on shiny objects. Best to prevent halo effect.

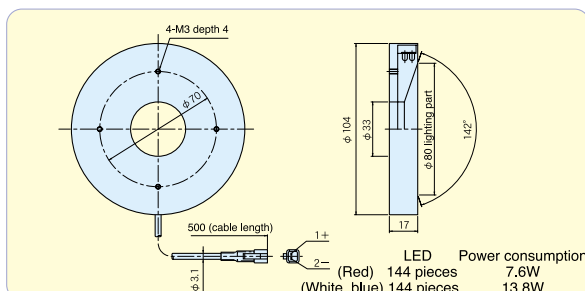
Applications

IC impress inspection, substrate part inspection, wafer visual inspection, solder inspection, connector pitch inspection. Square type is the best for square-shape objects such as BGA and QFP.

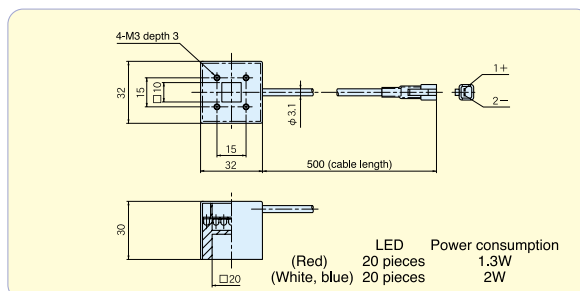
Model explanation



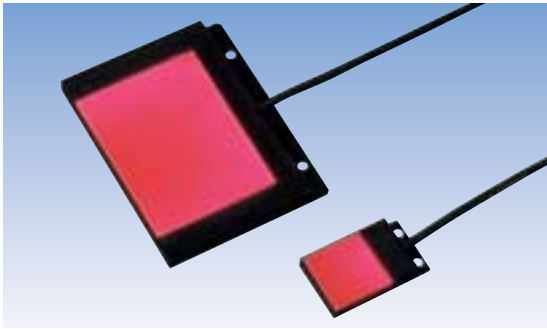
MKL-33/MKLW-33
MKLB-33



MQL-32/MQLW-32
MQLB-32



Edge light transmitting type



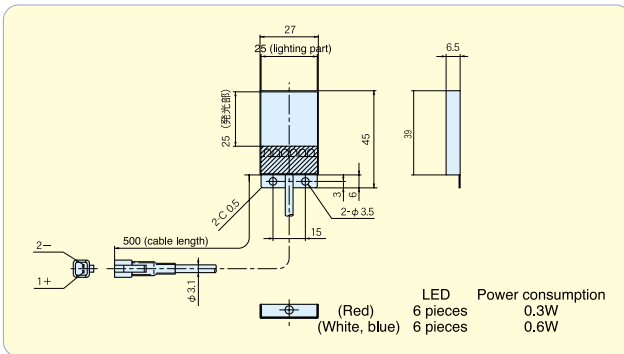
Model explanation

MEG -

LED color **Lighting size**

Nothing=Red 2525=25 x 25mm
 W =White 5370=53 x 70mm
 B =Blue

MEG-2525/MEGW-2525
MEGB-2525



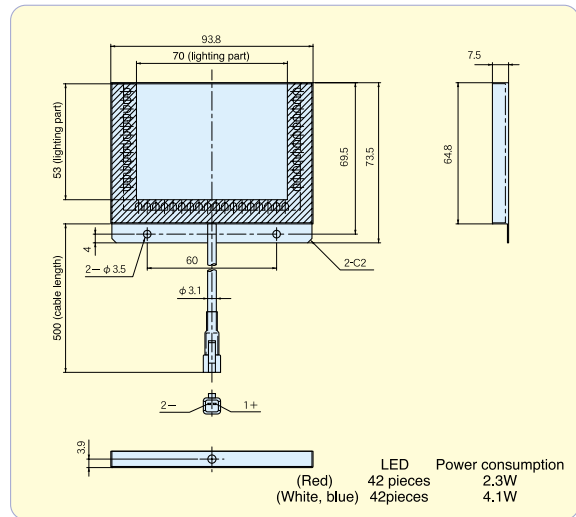
Features

Thin and compact design to save space. Uniform luminosity and high intensity are achieved by using a reflecting light guide.

Applications

Lead frame inspection; shape recognition and size measurement of electronic parts; bend lead inspection for GFP, QSP, and SOP; metal surface inspection, bacteria culture observation; silhouette observation

MEG-5370/MEGW-5370
MEGB-5370



Bar type



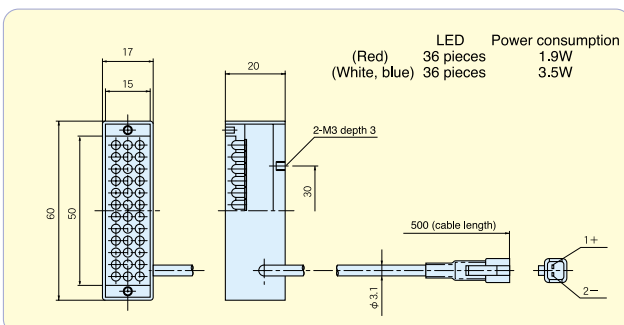
Features

High intensity LEDs are arranged in a bar-shape. Side light from any angle can be achieved according to objects.

Applications

LED defect inspection, shape recognition and size measurement of electronic parts, fabrication crack inspection, recognition of complicated shapes, straight pipe fluorescent lamp replacement.

MBAR-5015/MBARW-5015
MBARB-5015



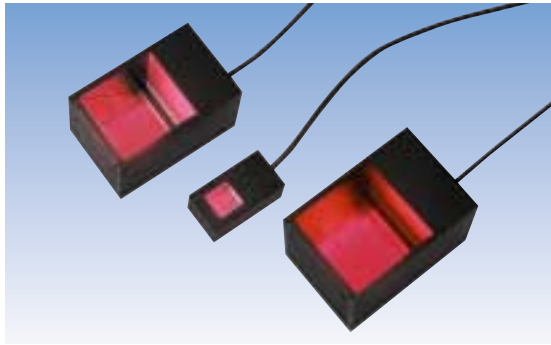
Model explanation

MBAR -

LED color **Lighting size**

Nothing=Red
 W =White
 B =Blue

Simulated coaxial type



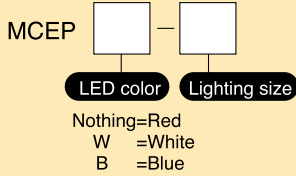
Features

Provides simulated even coaxial lighting to telecentric MML lenses and other lenses without coaxial episcopic illumination.

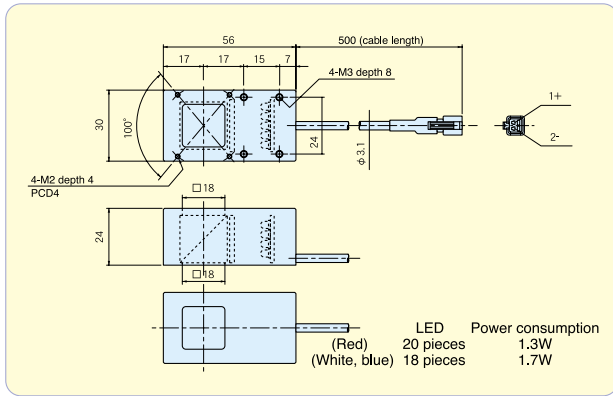
Applications

Alignment and surface inspection of mirror surface such as wafer, metal surface, film, liquid crystal, and glass. Pattern and mark inspection of printed boards.

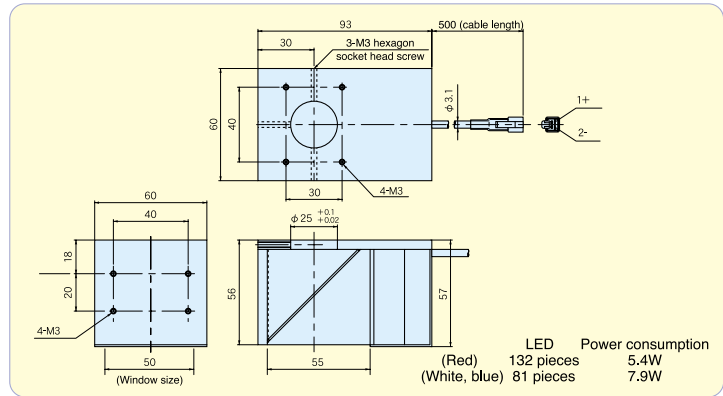
Model explanation



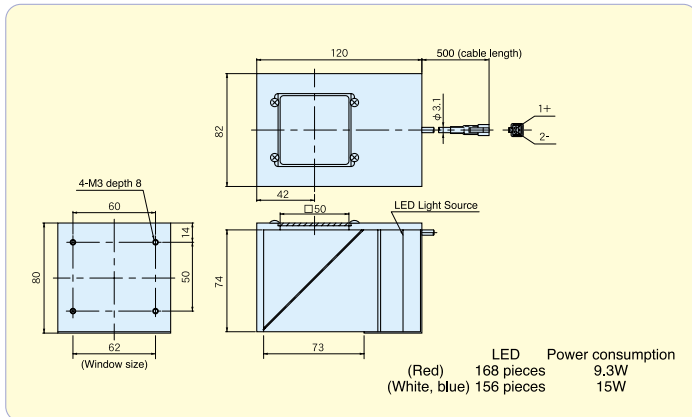
MCEP-20/MCEPW-20
MCEPB-20



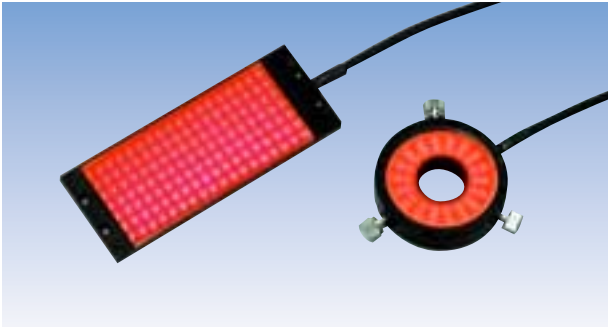
MCEP-56/MCEPW-56
MCEPB-56



MCEP-82/MCEPW-82
MCEPB-82



Chip mounted type



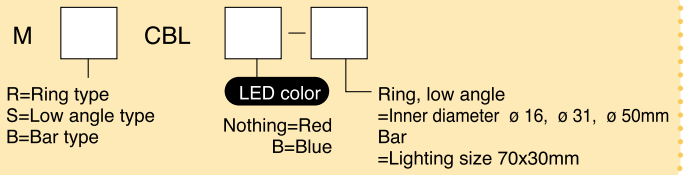
Features

Thinner and smaller than conventional LEDs because LED elements are bonded to a substrate. Even, soft light can be achieved in a short working distance.

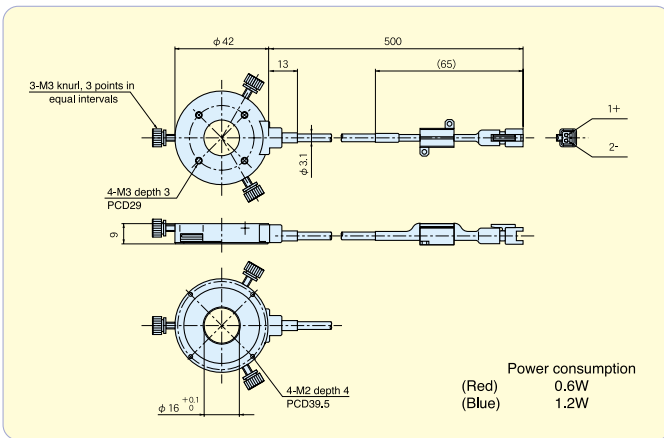
Applications

Electronic part and wafer alignment in small spaces.

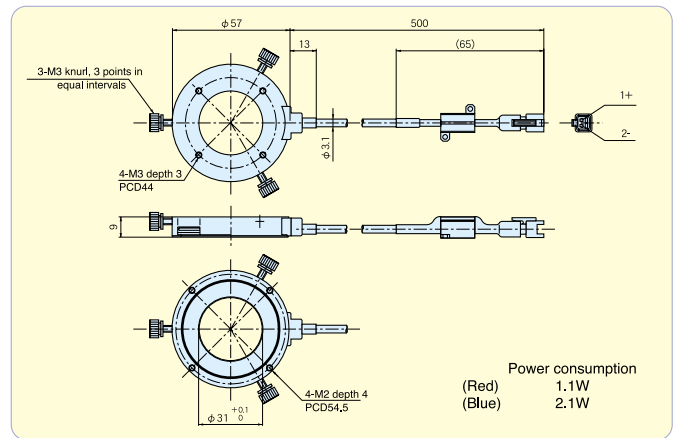
Model explanation



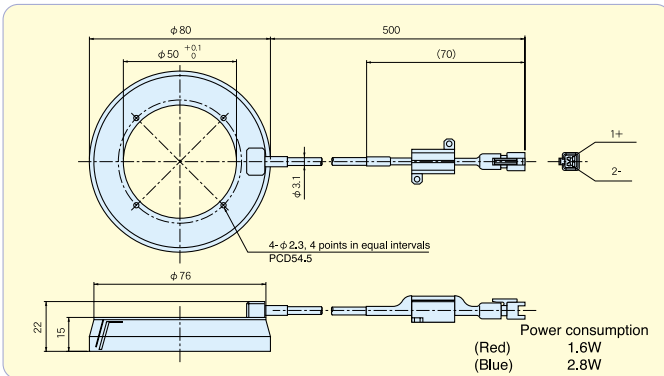
MRCBL-16/MRCBLB-16



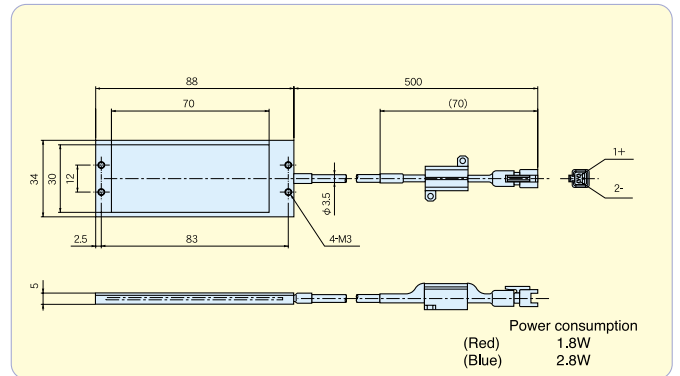
MRCBL-31/MRCBLB-31



MSCBL-50/MSCBLB-50



MBCBL-7030/MBCBLB-7030



Power source



Features

Manual light control, external analog light control, and external digital light control types are available. Select according to your desired purpose.

A double-channel type with independent channels is also available to light two LEDs at the same time.

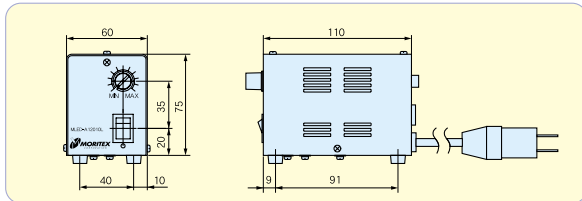
Applications

10-25W power supply for Moritex LED lightings.

MLED-A12010L

(Single-light manual light control type)

Capacity: 10W

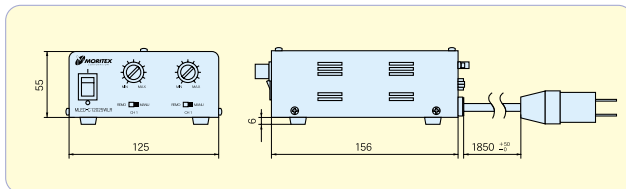


* Trunk cable MRC-01/02/03 is necessary to connect MLED-A12010L or MLED-B12025LRD to a LED lighting.

MLED-C12025WLR

(Double-light manual light control type)

Capacity: 25W in total

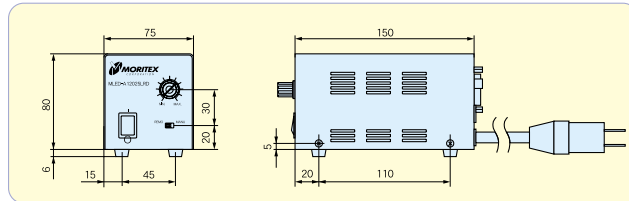


*Trunk cable MRC-01/02/03 is not necessary.

MLED-B12025LRD

(Single-light external digital light control type)

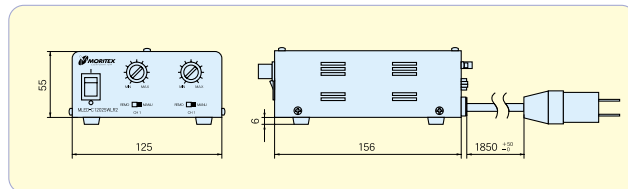
Capacity: 25W



MLED-C12025WLR2

(Double-light manual light control type)

Capacity: 25W in total



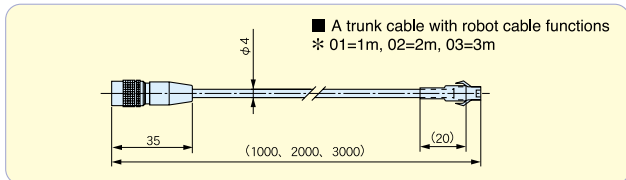
*Trunk cable MRC-01/02/03 is not necessary.

*AC200V Type.

Trunk cable

MRC-01/02/03

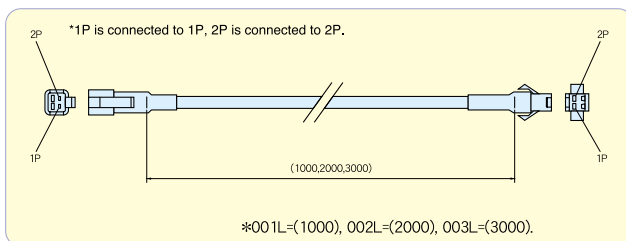
For MLED- A12010L and MLED-B12025LRD



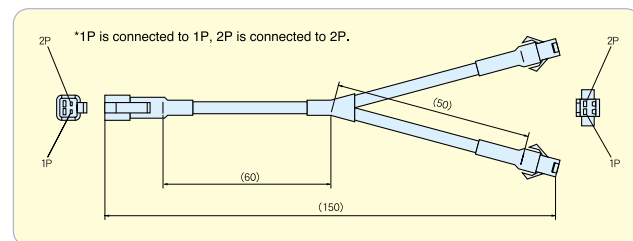
* This cable is necessary to connect a LED lighting with the power source MLED-A12010L or MLED-B12025LRD.

Extension cable / branch cable

Extension cable **M-RCB001L/002L/003L**



Two-branch cable **M-CB2**



Four-branch cable **M-CB4**

