## USB3 A to Micro-B Active Optical Cables

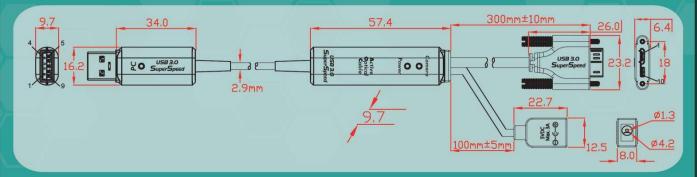
10m/15m/20m/30m/40m/50m/60m/70m/80m/90m/100m

 support High Speed & High Resolution USB3 Cameras high frame rate 170 fps at full 2.0~2.3 MP resolution, high frame rate 90 fps at full 4.0~4.2 MP resolution (430 MB/s wide bandwidth data throughput)

without lost frames all the time.

USB 2.0/1.1/1.0 not supported













CBL-U3AOC03-10m CBL-U3AOC03-15m CBL-U3AOC03-20m CBL-U3AOC03-30m













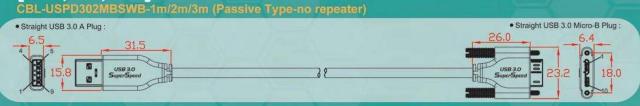
• support High Speed & High Resolution USB3 Cameras
high frame rate 170 fps at full 2.0~2.3 MP resolution, high frame rate 90 fps at full 4.0~4.2 MP resolution
(430 MB/s wide bandwidth data throughput)
without lost frames all the time.





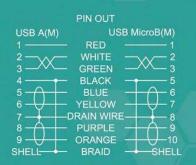


[ 1m,2m,3m ]









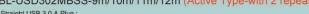
[4m,5m,6m,7m,8m]

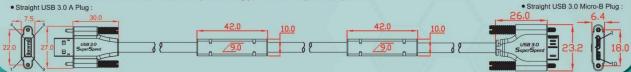
CBL-USD302MBSWB-4m/5m/6m/7m/8m (Active Type-with 1 repeater)



### [9m,10m,11m,12m]

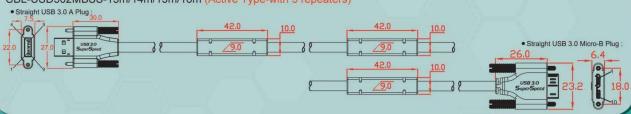
#### CBL-USD302MBSS-9m/10m/11m/12m (Active Type-with 2 repeaters)





### 3m,14m,15m,16m]

#### CBL-USD302MBSS-13m/14m/15m/16m (Active Type-with 3 repeaters)



### [17m,18m,19m,20m

#### CBL-USD302MBSS-17m/18m/19m/20m (Active Type-with 4 repeaters)





• fit for Basler's small cameras



• fit for IDS's small cameras



• fit for JAI's small cameras



• fit for Matrix Vision's small cameras



• fit for Point Grey's small cameras



• fit for SENTECH's small cameras



• fit for SVS-VISTEK's small cameras



fit for The Imaging Source's small cameras



• fit for Toshiba Teli's small cameras



fit for XIMEA's small cameras



Left Angle



Right Angle



Up Angle



Down Angle

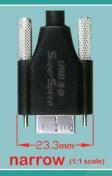
**Passive** 

USB3 Straight A to Micro-B Machine Vision Camera Cables - M/M with locking screws on Micro-B plug

[1m,2m,3m,4m,5m,6m,7m] Compact

O.D.: 5.6mm, 28AWG - U3 / 28AWG - U2 / 20AWG-PWR









support High Speed & High Resolution USB3 Cameras

high frame rate 170 fps at full 2.0~2.3 MP resolution, high frame rate 90 fps at full 4.0~4.2 MP resolution (500 MB/s wide bandwidth data throughput)

without lost frames all the time.



fit for Basler's small cameras



• fit for IDS's small cameras



• fit for JAI's small cameras



• fit for Matrix Vision's small cameras



• fit for Point Grey's small cameras



• fit for SENTECH's small cameras



• fit for SVS-VISTEK's small cameras





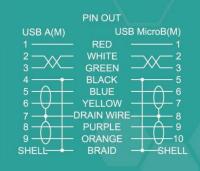
• fit for The Imaging Source's small cameras • fit for Toshiba Teli's small cameras



fit for XIMEA's small cameras



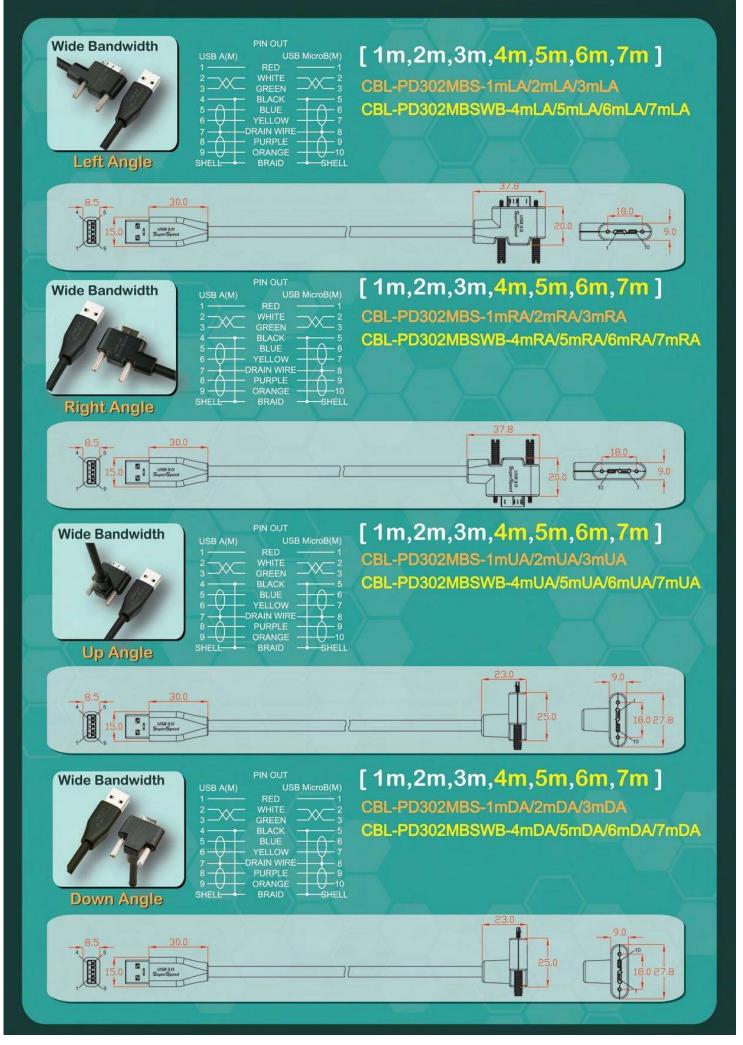




1m,2m,3m,4m,5m,6m,7m]

CBL-PD302MBS-1m/2m/3m CBL-PD302MBSWB-4m/5m/6m/7m





USB3 Straight A to Micro-B Machine Vision Camera Cables - M/M Active with locking screws on Micro-B plug

Compact [ 5m,7m,10m,15m,20m,25m,30m,35m,40m,45m,50m ] O.D.: 5.6mm, 28AWG - U3 / 28AWG - U2 / 20AWG-PWR









 support High Speed & High Resolution USB3 Cameras high frame rate 170 fps at full 2.0~2.3 MP resolution, high frame rate 90 fps at full 4.0~4.2 MP resolution (500 MB/s wide bandwidth data throughput) without lost frames all the time.



fit for Basler's small cameras



fit for IDS's small cameras



• fit for JAI's small cameras



● fit for Matrix Vision's small cameras



fit for Point Grey's small cameras



• fit for SENTECH's small cameras



• fit for SVS-VISTEK's small cameras



o fit for The Imaging Source's



• fit for Toshiba Teli's small cameras



fit for XIMEA's small cameras

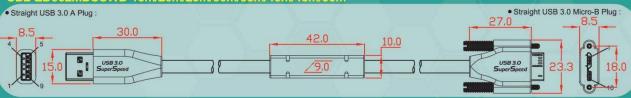




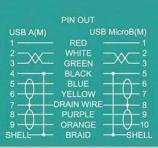


5m,7m,10m,15m,20m,25m,30m,35m,40m,45m,50m]

CBL-ED302MBCSWB-15m/20m/25m/30m/35m/40m/45m/50m



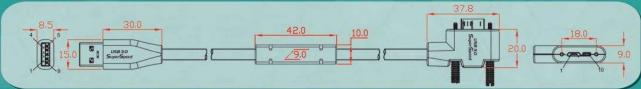




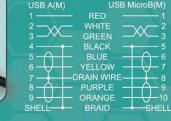
[5m,7m,10m,15m,20m,25m, 30m,35m,40m,45m,50m]

CBL-ED302MBCS-5mLA/7mLA/10mLA

CBL-ED302MBCSWB-15mLA/20mLA/25mLA/ 30mLA/35mLA/40mLA/45mLA/50mLA





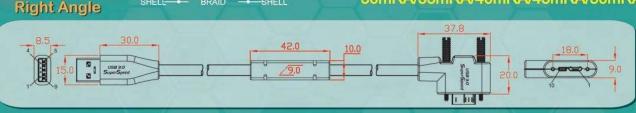


PIN OUT

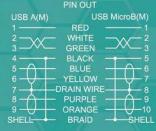
[5m,7m,10m,15m,20m,25m, 30m,35m,40m,45m,50m]

CBL-ED302MBCS-5mRA/7mRA/10mRA

CBL-ED302MBCSWB-15mRA/20mRA/25mRA/ 30mRA/35mRA/40mRA/45mRA/50mRA



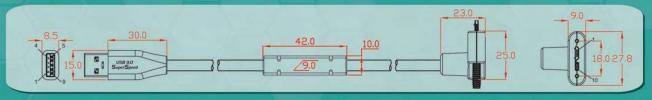




[5m,7m,10m,15m,20m,25m, 30m,35m,40m,45m,50m]

CBL-ED302MBCS-5mUA/7mUA/10mUA

CBL-ED302MBCSWB-15mUA/20mUA/25mUA/ 30mUA/35mUA/40mUA/45mUA/50mUA



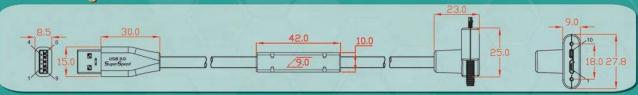




[5m,7m,10m,15m,20m,25m, 30m,35m,40m,45m,50m]

CBL-ED302MBCS-5mDA/7mDA/10mDA

CBL-ED302MBCSWB-15mDA/20mDA/25mDA/ 30mDA/35mDA/40mDA/45mDA/50mDA



Repeater(s):

5m:1 / 7m:1 / 10m:1 / 15m:2 / 20m:3 / 25m:4 / 30m:4 / 35m:6 / 40m:7 / 45m:8 / 50m:8

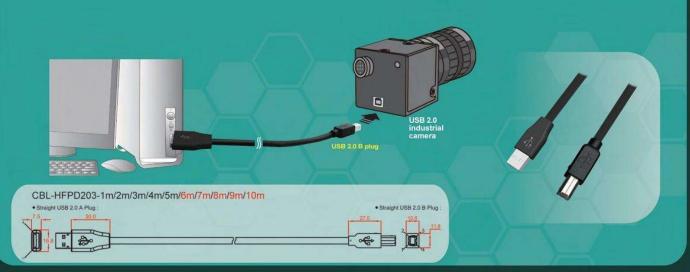
## High-Flex (Continuous-Flex)

- Flex Testing:
  (1) TYPE-U (Rolling, C-Track, C-Chain) / R=67.5mm ► Minimum 5,000,000 times
  (2) TYPE-S / R=60mm ► Minimum 1,000,000 times
  (3) 90° BENDING (Tick-Tock Bending) / R=60mm ► Minimum 1,000,000 times
- Cable O.D.:5.4mm

Passive USB2 Connectors & Cable Assemblies for Automated Systems - Im/2m/3m/4m/5m/6m/7m/8m/9m/10m







### High-Flex (Continuous-Flex)

- Flex Testing:
  (1) TYPE-U (Rolling, C-Track, C-Chain) / R=67.5mm ► Minimum 5,000,000 times
  (2) TYPE-S / R=60mm ► Minimum 1,000,000 times
  (3) 90° BENDING (Tick-Tock Bending) / R=60mm ► Minimum 1,000,000 times
- Cable O.D.:5.4mm

Active USB2 Connectors, Repeater(s) & Cable Assemblies for Automated Systems - ISm/20m/25m/30m/35m/40m/50m













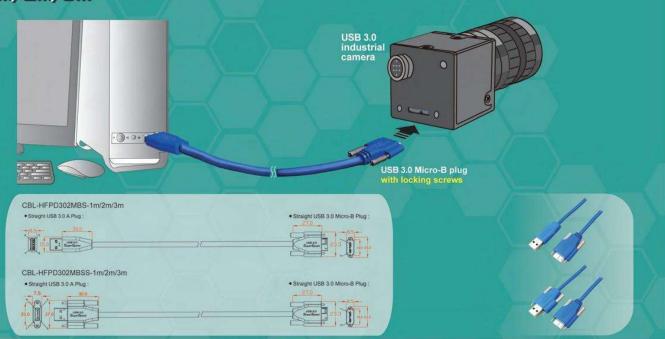
### High-Flex (Continuous-Flex)

- Flex Testing:
  - (1) TYPE-U (Rolling, C-Track, C-Chain) / R=87mm ► Minimum 5,000,000 times
  - (2) TYPE-S / R=60mm ► Minimum 1,000,000 times
  - (3) 90° BENDING (Tick-Tock Bending) / R=60mm ► Minimum 1,000,000 times
- support High Speed & High Resolution USB3 Cameras
  high frame rate 170 fps at full 2.0~2.3 MP resolution, high frame rate 90 fps at full 4.0~4.2 MP
  resolution (430 MB/s wide bandwidth data throughput)

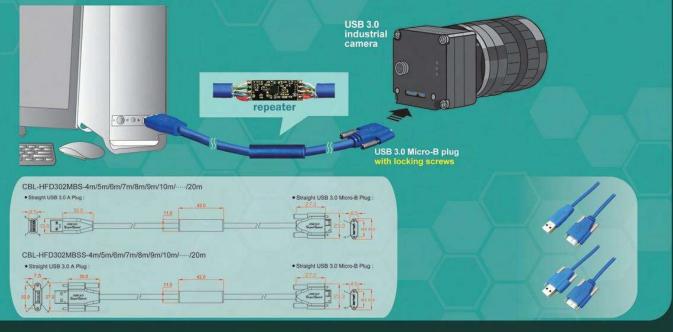
#### without lost frames all the time.

- USB 2.0/1.1/1.0 not supported
- Cable O.D.:5.6mm

## Passive USB3 Connectors & Cable Assemblies for Automated Systems - Im/2m/3m



Active USB3 Connectors, Repeater(s) & Cable Assemblies for Automated Systems - 4m/5m/6m/7m/8m/9m/IOm/..../20m



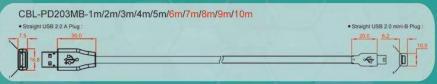
# Passive USB2 Machine Vision Camera Cables - Im/2m/3m/4m/5m/6m/7m/8m/9m/10m

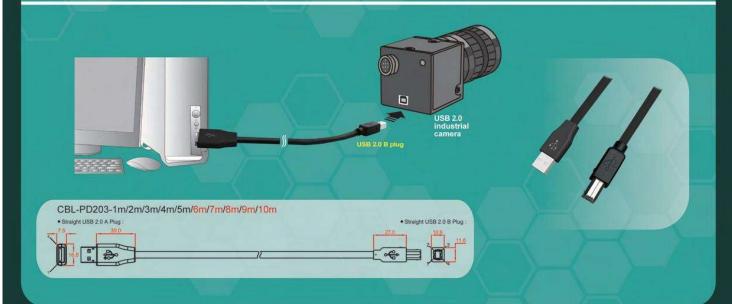














CBL-D203MBS-5m/7m/10m/15m/20m/25m/30m/35m/40m/45m/50m/55m/60m/65m/70m/75m/80m

• Straight USB 2.0 A Plug:

• Straight USB 2.0 mini-B Plug:

Connects a USB 2.0 camera located

5/7/10/15/20/25/30/35/40/45/50/55/60/65/70/80 meters

(16/22/32/49/65/82/98/114/131/147/164/180/196/213/262 feet) far away!!

repeater









Connects a USB 2.0 device located

Connects a USB 2.0 device located 5/7/10/15/20/25/30/35/40/45/50/55/60/65/70/80 meters

5/7/10/15/20/25/30/35/40/45/50/55/60/65/70/80 meters (16/22/32/49/65/82/98/114/131/147/164/180/196/213/262 feet) far away!!

(16/22/32/49/65/82/98/114/131/147/164/180/196/213/262 feet) far away!!