

FIBER OPTIC COUPLERS & SPLITTERS

CP-LC

1x2 Multimode Large Core Fiber Optic Couplers

SEDI-ATI's Multimode Large Core Fiber Optic Couplers are manufactured using a proprietary process based on a wavefront division technology. This unique manufacturing method intrinsically ensures our couplers are highly mode insensitive and achromatic.

Our couplers thus show a very high stability in coupling ratio over a broad wavelength range and over modal fluctuation.

The CP-LC couplers can be made with any step index fiber types ranging from 100 μm to 1000 μm core diameters ; including Launch fibers (LCH) and Hard-Clad Silica fibers (HCS). They are ideal for spectroscopy applications.

Please contact us to discuss your specific requirements as we can also offer multimode large core fiber-optic couplers with different coupling ratios, different fiber lengths, a special packaging for high temperature applications, higher directivity, and 1xN configurations.

KEY FEATURES

- From 100 μm to 1000 μm fiber core diameters
- Wavelength insensitive
- Mode insensitivity
- Stable coupling ratio
- High reliability
- Low insertion loss
- Custom configurations available

APPLICATIONS

- Optical sensing
- Spectroscopy

QUALITY

- ISO 9001:2015

As part of our policy of continuous product improvement, we reserve the right to change specifications at any time.
DTSCPLC October 2020

CP-LC

1x2 Multimode Large Core Fiber Optic Couplers

FIBER OPTIC COUPLERS & SPLITTERS

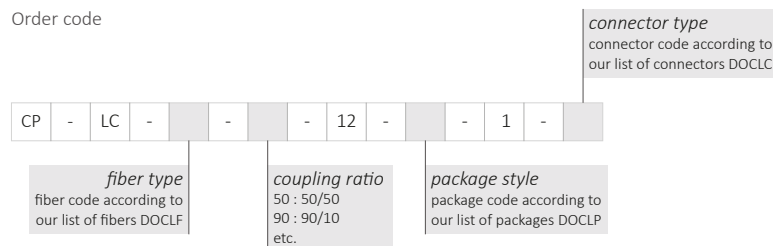
STANDARD PRODUCT SPECIFICATIONS

Parameters	CP-LC
Port configuration	1x2
Fiber length	1 m on each port
Coupling ratio	50/50; other coupling ratios from 10/90 to 50/50 upon request
Fiber type	MM SI 100 to 1000 µm core; see our list of fibers DOCLF
Directivity	> 30 dB guaranteed by design; higher directivity upon request
Uniformity	< 1 dB
Insertion loss	< 4 dB; measured in a 50/50 configuration
Operating wavelength range	532-1625 nm; depending on fiber type
Operating temperature range	-20°C to +70°C
Storage temperature range	-40°C to +85°C
Connector type	see our list of connectors DOCLC
Housing	see our list of packages and cables DOCLP

The specifications are given for non-connectorized products, measured with a 850 nm steady state LED. Please note that the values can vary substantially according to the customer's measurement bench set up (light source, detector...).

ORDERING INFORMATION

Order code



Example : CP-LC-HCL400-50-12-44B-1-SMA

(Large Core fiber optic coupler with 1 m long HCL 400/440 fibers on each port, a 50% coupling ratio, in the 90x16x8 mm housing with 1.8 mm pvc jacket and SMA905 connectors)

As part of our policy of continuous product improvement, we reserve the right to change specifications at any time.

DTS CPLC October 2020