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FIBER COMPONENTS: Large-beam fiber collimators

CLA, CLB, and CLD series collimators are high-performance fiber optic devices employing high quality aspheric lenses to achieve low wave-front distortion, low divergence, and diffraction limited beam quality. These collimators are not only ideal for targeting at long distances but also good for pair coupling at distances approaching 1 m. CLC series collimators are spherical lens-based low-cost devices suitable for multimode applications. Beam size will reach 6 mm for fibers with 0.20 NA.

CLE and CLF series extra-large beam collimators are based on achromatic doublet lenses for the unusually large sizes. They feature 8 and 16 mm beam sizes for singlemode fiber and are suitable for short-distance free-space optics communication. CLF series collimators also feature a tuning mechanism that allows users to make fine adjustment on fiber Z position to achieve optimum performance. The total adjustment range is +/- 0.5 mm.

Use these collimators with our standard laser-diode light source, pigtailed diode lasers, or receptacle laser diode modules.

Visit our datasheet archives to download datasheets on standard fibers.

CLD-131-28
🔍 CLICK for larger view

CLE-155-28
🔍 CLICK for larger view

CLF-155-28
🔍 CLICK for larger view

SPECIFICATIONS

MODEL	DIAMETER X LENGTH - BEAM SIZE X FOCAL LENGTH (mm)
CLF	55x85-14x75 (SM, achromatic doublet/AR, aluminum)
CLE	35x50-8x35 (SM, achromatic doublet/AR, stainless steel)
CLD	8.0x23-3.5x19 (SM, asphere/AR, stainless steel)
CLC	15x22-6x15 (MM/0.2NA, PC/fire polish/no AR, aluminum)
CLB	8.0x16-2x11 (SM, asphere/AR, stainless steel)
CLA	6.0x9.0-0.8x4.5 (SM, asphere/AR, stainless steel)
CLR	6.0x9.0-0.8x4.5 (SM, GRIN/AR, stainless steel)
CLS	3.4(2.78)x17(11)-0.45x1.9 (SM, GRIN/AR, stainless steel)
CLX	2.2x11-0.45x1.9 (SM, GRIN/AR, glass)
CLY	1.3x10-0.25x1.0 (SM, GRIN/AR, glass)

CREATE YOUR PART NUMBER

CLm (m=A-F, R, S, X-Y)- wavelength code- fiber code- connector code

DOCUMENTS DOWNLOAD

▶ PDF datasheet in more details (0.2kB) CLICK HERE
▶ Model CLE PDF drawing CLICK HERE

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