

Lighttel offers cable assemblies equipped with D80 connectors for medium power laser delivery in medical and industrial applications. These connectors are terminated with a free-standing, epoxyless fiber tip which prevents the ferrule from melting or the possible burning of epoxy. Also, the copper ferrule provides better heat dissipation than those found in traditional multimode connectors. In addition, the connector incorporates sapphire protection whereby a sapphire disc is inserted between the copper ferrule and the fiber tip to protect the ferrule from energy accumulation and return. This large diameter core connector can transmit up to 600W in a single fiber with 90% efficiency depending on core size and launch conditions.



Steel-armored protection tubing is offered to ensure laser safety and all assemblies are provided in either standard or customer-specified lengths and colors. Angle polish, AR coatings, integral cladding mode strippers, water or air cooling, and other custom options are also available upon request.

Features

- Available in a wide wavelength range from 400nm to 2200nm
- High precision surface polish
- Sapphire protection of copper ferrule
- Copper ferrule provides excellent heat dissipation
- Good coupling, high efficiency
- Freestanding, epoxyless tip

➔ Specifications

Parameter	Specification
Core/Cladding Ratios	100/140, 200/240, 400/480, 600/660, 800/880μm
Fiber Index	Step
Numerical Aperture	0.22
Transmission Band	400-2200nm
Armor Sheath Diameter	8.0mm
Temperature Range	-40° to +85°C

➔ Ordering Information

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Core		Power Handling (Watts)*		Cable Color		Armor Length (cm)	Fiber Pigtail (cm)
01: 100μm 02: 200μm 04: 400μm 06: 600μm 08: 800μm 10: 1000μm		Specify (e.g. 100)		BL: Blue GR: Green RD: Red OR: Orange WH: White GR: Gray UN: Uncoated		Specify (e.g. 0100)	Specify (e.g. 030)

*Dependent on core size and launch conditions