



General Description

PDR High Power Patch Cord is specially designed for high-power optical transmission applications. It adopts a **customized ferrule** and **air-gap ferrule technology** to eliminate energy absorption near the fiber end face, ensuring superior durability and performance under high optical power conditions. This patch cord is ideal for **medical, laser, and defense industries**, where stable and efficient light delivery is critical.

Features

- Supports **200~1000μm core** optical fibers.
- **Customized ferrule** design for precise alignment and minimal power loss.
- **Air-gap ferrule technology** eliminates energy-absorbing materials near the fiber end face.
- High damage threshold and long operational life under high-power laser exposure.
- Excellent mechanical strength and thermal stability.
- Available with various connector types (SMA, FC, ST, or customized).
- Suitable for **medical laser delivery systems, industrial laser processing, and defense optical systems.**
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Specifications

Parameters	Specifications
Fiber Type	Multimode, 200μm – 1000μm core
Ferrule Type	Customized air-gap ferrule
Connector Type	SMA905 / FC / ST / Custom
Cable Diameter	2.0mm / 3.0mm / Custom
Operating Wavelength	400nm – 2100nm
Return Loss	≥ 45 dB (typical)
Insertion Loss	≤ 0.3 dB
Operating Temperature	–40°C to +85°C
Power Handling	Up to 200W (depending on fiber and connector type)
Jacket Material	PVC or LSZH
Cable Length	Standard 1m / 2m / Customized

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