

EFC8 -Φ8 Endcaped Fiber Cable



EFC8-Q

At the input and output fiber end face in high power (hundreds, thousands even dozens of thousand watts) laser, the energy density can be very high. When the laser radiation couple into the fiber end face, there is high risk of fiber burning or surface degradation.

An end cap at the end face of fiber is a good solution for above issue - an 8mm diameter end cap spliced to the fiber can greatly increase the diameter of the beam spot, which is a very effective method to lower the power density. On the surface of the end cap, a high damage threshold AR coating is coated, while on the other side of the fiber, a high efficient cladding power stripper (CPS) is added, and it's epoxy free.

Features:

- 100% QBH compatible.
- Fiber spliced to 8mm end cap, passed tensile test, +20G vibration test and high/low temp. recylcing test.
- A cladding power stripper (CPS) is integrated near the end cap, featured in high stripping efficiency, low loss in fiber core, epoxy free and cooling the fiber.
- High damage threshold AR coating on the surface of end cap.

Applications:

- High power Fiber Laser
- High Power solid state Laser and fiber coupled diode Laser



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Optical parameters		Specifications	
Operating wavelength range		900-1100nm	
Transmit efficiency		>98% (typical >99%)	
Cladding power stripper		Stripping efficiency>15dB	
AR coating		Reflection rate at all wavelength range<0.2%	
Fiber type	LMA DC fiber	20/400DCF,25/400DCF, cladding dia. up to 600um	
	BD fiber	50/360,100/360,200/360 0.22NA etc.	
Mean power		<5kW	
Back reflection		≤ 500W (CW)	
Fiber & end cap concentricity		≤ 50um	
Mechanical parameters		Specifications	
Single/Double connectors		Single (can be used for input or output) or double connectors	
Water flow rate		≥1.7L/min	
Water connector		MS-5H-6, water hose (O.D.6mm,I.D.4mm)	
Cable configuration		O.D. 10mm (with yellow PVC) , with inner Teflon tube (O.D. 6mm, I.D.4mm)	
Cable length		Armored calbe lengths 5m, 10m, 15m, 20m etc. (can be customized)	
Protection window on end cap		Assembled on the EFC8, replaceable	
Accessories for sin	ngle connector version only		
A01		bare fiber length: 1.0-1.5m	
A02		500mm Interlock wires outside of the armored cable	
A03		With M20 gland to mount on laser box (Panel wall size< Φ 20x6mm)	

Remark:

*The thicker fiber cladding diameter is, the higher pull force it can bear.

Ordering Information:

Please describe your request as following:

Fiber laser app., QBH in 20/400 fiber of 15m armor and 2m bare fiber, totally 17m. 5Kw power.

and drop us mail to sales@lasfiberio.com for further help.

F	Code	
Daulala	20/400 DCF	LD420
Double Cladding	25/400 DCF	LD425
Fiber	30/400 DCF	LD430
Tibel	30/600 DCF	LD630
	200/240 0.22NA	B220
	50/360 0.22NA	B305
Beam Delivery	100/360 0.22NA	B310
Fiber	200/360 0.22NA	B320
	300/360 0.22NA	B330
	200/500 0.22NA	B520