Electro Optical Components, Inc.
5464 Skylane Boulevard, Suite D, Santa Rosa, CA 95403
Toll Free: 855-EOC-6300
www.eoc-inc.com | info@eoc-inc.com

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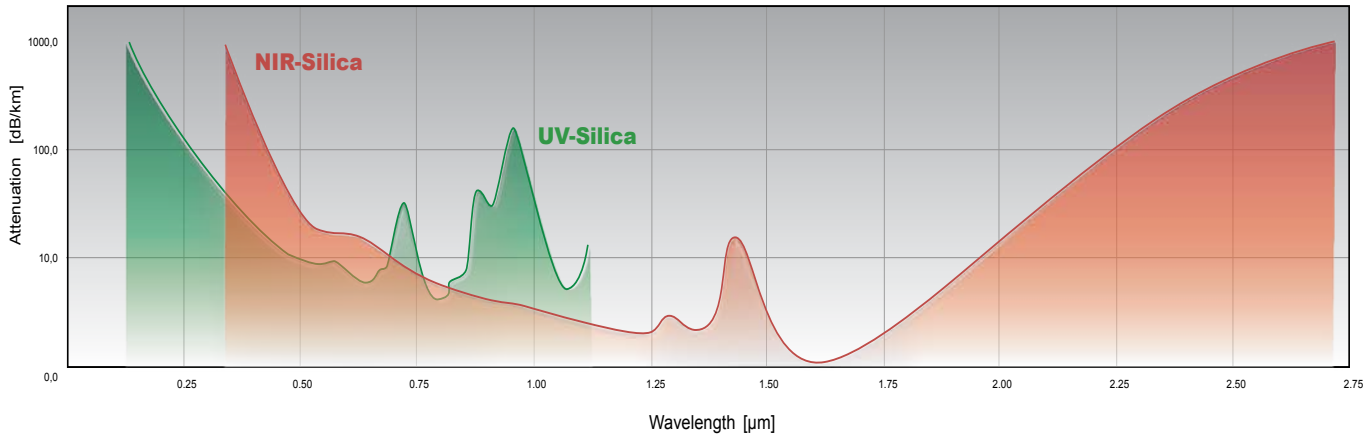
High Power Silica Fiber Cables

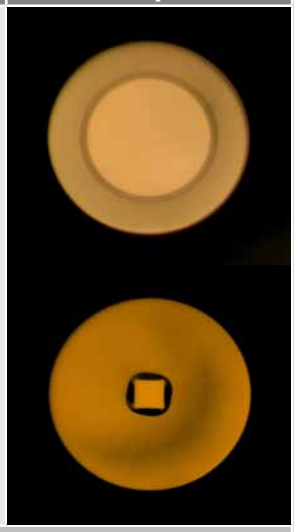
art photonics

FlexiRay® cables from **art photonics** is the latest generation of High Power Fiber Cables produced for various lasers in broad spectral range. ***FlexiRay***® HP-cables deliver much higher power compared to the similar cables in result of specialty laser fiber combination with the proprietary connector design. This synergy enables long HP-cable life while high power density is delivered and connectors stay cool.

Applications:

- Laser Welding of Metals & Plastics
- Laser Cutting & Drilling
- Rapid Surface Processing
- Medical Laser Power Delivery
- Laser Target & Rangefinder
- Laser Spectroscopy



High Power Cable	Specification	Core shape
Fiber core shape	Round (other shape – on request)	
Fiber core diameter	100, 200, 300, 400, 600, 800 µm *	
Fiber core material	Pure fused silica: High OH- (λ= 0.18 – 1.2 µm) Low OH- (λ= 0.35 – 2.5 µm)	
Fiber cladding	Fluorine doped fused silica	
Protective jacket material	Nylon, Tefzel, Acrylate, Polyimide, Metal	
Standard NA:	0.22 ± 0.02 (Full Acceptance Angle 25°)	
NA on request:	0.12 ± 0.02 (Full Acceptance Angle 14°) 0.26 ± 0.02 (Full Acceptance Angle 30°)	
Cable protective tube	Polymer coated Stainless Steel Tubing	
Cable length	From 5 cm to 50 m*	
High power connectors	HP-SMA, D80	

*customized dimensions available on request

Laser Power Matrix to select fiber core / connector of *FlexiRay*® HP-cable*

Fiber core diameter	100 µm	200 µm	400 µm	600 µm
HP-SMA connector	100 W	200 W	300 W	400 W
D80 connector	150 W	400 W	600 W	800 W

*Max power level is only indicated approximately – as it depends on laser beam profile, coupler parameters and on heat dissipation conditions for input & output connectors

HP-SMA-connector **D80-connector**