



Specialty Fiber



Issue date: 02/12
Supersedes: ../..

Product Type: C-Band

Coating Type: Dual Layer Primary Coating

For the Telecommunication industry

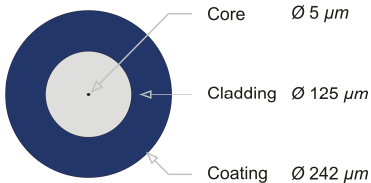
- ROPA
- 980 and/or 1480 nm pumps
- Terrestrial and Submarine telecommunications
- Defense/Military/Aerospace

The Draka's eLPW Erbium doped fibers are proven components for terrestrial and submarine telecommunication systems. They have been extensively used in these systems and have nearly two decades of proof of ultra high reliability.

The eLPW-LC-4 has a very high numerical aperture (NA) of 0.28. It makes it very efficient in low to medium power amplification scheme. It is all the more indicated for remote optically pump amplifiers (ROPA).



Value Innovation is a way of looking at the world. How we can help our customers do more, make more, save more, achieve more.



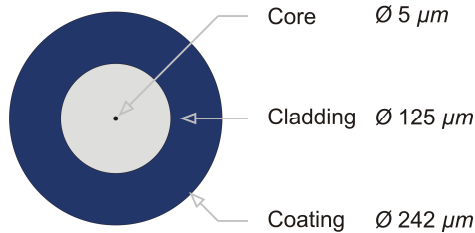
Features	Benefits
Excellent spectral reproducibility and batch-to-Batch uniformity	Reduces manufacturing costs and increases production yield
Wide Erbium doping range	Ensures the most cost effective fiber choice for your applications
Industry leading fiber geometry	Increases signal transfer with precision core alignment
Low PMD	Enables EDFA design for high data rate applications
Standard Dual Acrylate coating	Provides superior mechanical resistance specifications

Proven component for terrestrial and submarine ROPA
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Optical Specifications
Parameters

Peak absorption coefficient at 1532 nm ¹ (Max [1530 – 1534 nm])	4 dB/m (Typical)	[3 – 5] dB/m
Background Loss (min. 1100 – 1300 nm)	≤ 6 dB/km (Typical)	≤ 10 dB/km
Bending sensitivity (at 100 m, over 15 mm radius, λ < 1620 nm)		≤ 0.1 dB
Cut-off wavelength		≤ 980 nm
Mode Field Diameter (at 1550 nm)		4.4 ± 0.6 μm
Numerical Aperture (Typical)		0.28
Polarization Mode Dispersion (100 m)		≤ 0.25 ps

Geometrical Specifications
Parameters

Cladding Diameter	125 ± 2 μm
Core / Cladding Offset	≤ 1 μm
Coating Diameter	242 ± 15 μm
Coating / Cladding Offset	≤ 12.5 μm
Standard Lengths	250, 500 and 1000 m


Mechanical Specifications
Parameters

Elongation proof test (1 second)	
Standard	1.5 % kpsi
Upon request	2.0 % kpsi

Environmental Specifications
Parameters

Storage Temperature	- 40°C to + 85°C
Operating Temperature range	- 5°C to + 70°C
Storage Humidity range (non condensing)	5 % to 95 %
Operating Humidity range (non condensing)	5 % to 95 %

¹ Other values available on request

How can we be of service to you?

Value Innovation is a way of looking at the world. How can we help our customers do more, make more, save more, achieve more?

Take DrakaElite™. Based on our proprietary manufacturing process and our control of all technological building blocks, we offer an extensive portfolio of specialized optical fibers that have been designed, developed, manufactured

and tested for every environment. Whether you want to guide, amplify, transmit, process, control or sense light, Draka has the fiber you need, whatever your environment. And if for some reason we don't have exactly what you need, well, we'll just make it.

That's Value Innovation in action.

Draka Communications

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The Draka Communications policy of continuous improvement may cause in changed specifications without prior notice