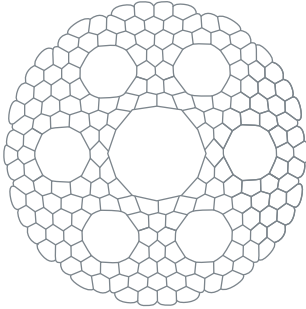




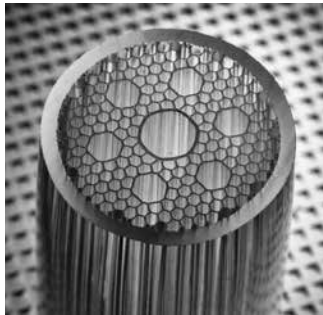
AccuCore HCF™ Fiber Optic Cable and Assemblies

Driven by OFS Patented Hollow-Core Fiber Technology



Highlights

- 30% latency improvement
- Optical transmission in the C-band
- Wavelength Division Multiplexing (WDM) supported
- Field deployable cable
- Fibers terminated with standard connectors and solid-core fiber
- Ease of use



Overview

OFS AccuCore HCF™ is an optical cable solution featuring a unique patented photonic bandgap hollow-core fiber with very low bend loss. The cable supports low-latency transmission in the C-band where the latency gain is greater than 1.5 $\mu\text{s}/\text{km}$ compared to conventional solid-core fiber. The fiber has been designed for excellent suppression of higher-order modes that would otherwise impair transmission via multipath interference (noise). The operating window is centered at a wavelength of 1550 nm and supports a bandwidth greater than 10nm. Transmission is typically at 1 or 10 Gbps with intensity modulated direct detection and both WDM and the use of amplifiers is supported. The solution includes an indoor/outdoor field deployable cable, installation support, on-site cable trimming, and both field and factory termination with standard connectors.

Typical Applications for Hollow-Core Transmission

- High Frequency Trading
- Data Center Interconnect
- Intra-Data Center Networking
- 5G X-Haul Mobile Networks

Full Low-Latency Optical Fiber Transmission Service



Cable



Connectors
(Additional connector options available)



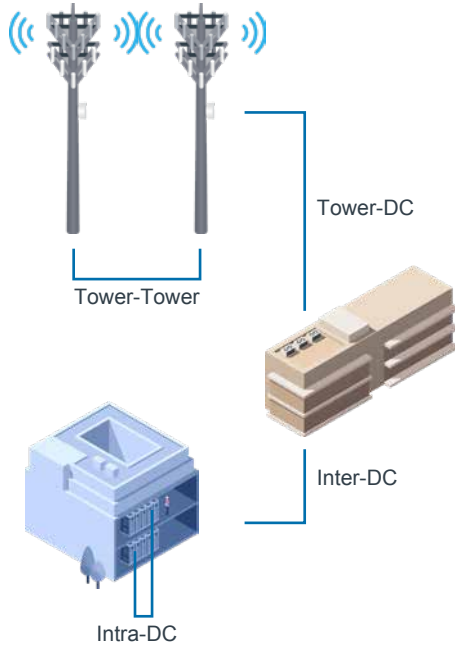
Installation



AccuCore HCF™ Fiber Optic Cable and Assemblies

Driven by OFS Patented Hollow-Core Fiber Technology

Replace solid-core with hollow-core fiber for 30% latency improvement



Product Specifications	
Parameter	AccuCore HCF Fiber Optic Cable
Cable Physical Characteristics	
Type	Indoor/Outdoor
Fiber Count	4
Min. Bend Radius	130 mm
OD	7.4 ± 0.5 mm
Weight	≤ 142 lb/km
Maximum Installation Load	260 lb.
Maximum Operating Load	90 lb.
Operating Temperature	-20 °C to +80 °C
Connector Type*	LC or SC
Optical Characteristics	
Fiber Type	Hollow Core
Latency Improvement	≥ 1.5 μs/km
Max Attenuation	6 dB/km (typical 3dB/km)
Wavelength Range	1550 ± 5 nm
Multi-Path Interference	< -20 dB in 1 km
Chromatic Dispersion	< 200 ps/nm/km
Application Example - Microwave Tower to DC	
Example Length	1 km
Example Data Rate	10 Channels at 10 Gbps
Example Insertion Loss	< 10 dB
Order by Part Number	Contact OFS

*Additional connector options available

For more information please visit:
www.ofsoptics.com/accucore-hcf



For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



Copyright © 2023 OFS Fitel, LLC.
 All rights reserved, printed in USA.

OFS Marketing Communications
 Date: 03/23

For a full list of our certifications, visit our website.



AccuCore HCF is a trademark of OFS Fitel, LLC. OFS reserves the right to make changes to the prices and product(s) described in this document at any time without notice. This document is for informational purposes only and is not intended to modify or supplement any OFS warranties or specifications relating to any of its products or services.