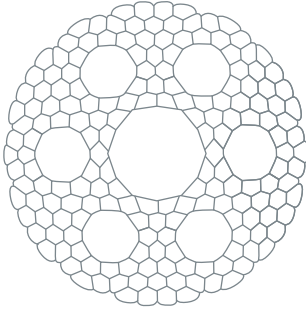


# AccuCore HCF™ Fiber Optic Cable and Assemblies

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 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 fiber has been designed for excellent suppression of higher-order modes that would otherwise impair transmission via multipath interference. 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 transmission is centered at 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.

## Full Low-Latency Optical Fiber Transmission Service

### Typical Applications

High Frequency Trading

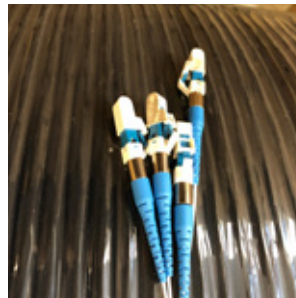
High Performance Computing

5G X-Haul Mobile Networks

Intra-Data Center  
Interconnection



Cable



Connectors

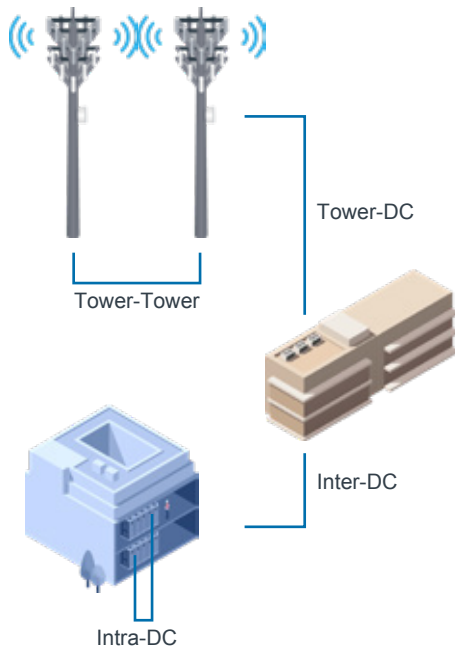


Installation

## AccuCore HCF™ Fiber Optic Cable and Assemblies Driven by OFS Patented Hollow-Core Fiber Technology

### Generation 1:

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



### Generation 2:

Long lengths, amplified systems

Product Specifications	
Parameter	AccuCore HCF Fiber Optic Cable
<b>Cable Physical Characteristics</b>	
Type	Indoor/Outdoor
Fiber Count	4
Min. Bend Radius	200 mm
OD	7.4 ± 0.5 mm
Installation Temperature	-32 °F to +140 °F
Operating Temperature	-40 °F to +158 °F
<b>Optical Characteristics</b>	
Fiber Type	Hollow Core
Latency Improvement	≥ 1.5 μs/km
Max Attenuation	< 7 dB/km
Wavelength Range	1550 ± 5 nm
PMD	<<10 ps
Multi-Path Interference	< -35 dB in 1 km
Dispersion	< 200 ps/nm
<b>Application Example - Microwave Tower to DC</b>	
Length	1 km
Wavelengths and Data Rate	10 Channels at 10 Gbps
Loss	< 15 dB
Connector Type	LC or SC
Order by Part Number	Contact OFS

For more information please visit:  
[www.ofsoptics.com/accucore-hcf](http://www.ofsoptics.com/accucore-hcf)

For additional information please contact your sales representative.

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