

# New Single-Mode Optical Fibers for OSP Cables Ordering Guide

OFS recently introduced four innovative single-mode optical fibers. Three of these fibers, AllWave®+, AllWave® LL and AllWave® One Zero Water Peak (ZWP) fibers, were developed to support tighter bends and longer reach in Outside Plant (OSP) networks.

AllWave+ Fiber was specifically designed for use in Fiber-To-The-Subscriber (FTTX), metropolitan and backhaul applications. AllWave One Fiber focuses on FTTX, metropolitan, backhaul and long haul applications where G.652.D fiber is specified, and even greater bending performance is desired. Both of these fibers are built on the foundational performance of OFS' award-winning AllWave ZWP Fiber.

To support long haul applications with upgrade capabilities to 400 Gb/s, OFS developed TeraWave™ Single-Mode Optical Fiber. TeraWave Fiber is 'Fiber for the Long Haul' network - for cost-effective long haul applications today, and optimized to support the long-term roadmap of ever-increasing data rates for 400 Gb/s and beyond.

## Ordering Information

Please use the following information as a quick reference to ordering OSP cables featuring AllWave+, AllWave LL, AllWave One ZWP and TeraWave optical fibers. For additional information, please contact your OFS representative.

Fiber<sup>2</sup> Sheath Core Fiber Count

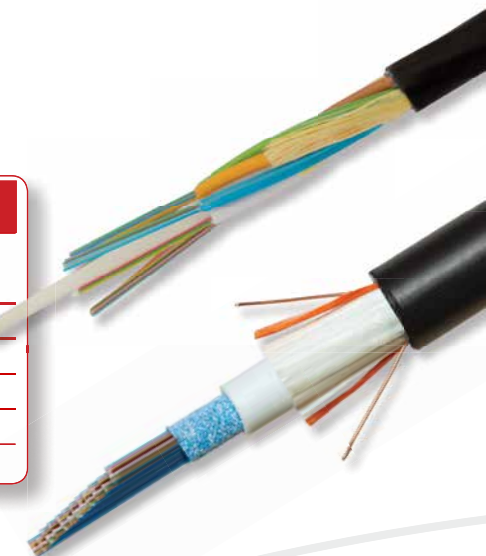
Ordering Syntax: **AT**-*S1* *S2* *SF* *S3* *S4* *S5* *S6* - *nnn*

*S2* - Single-Mode Fiber Performance (Loose Tube and Central Core Cables)

AllWave ZWP Fiber Performance <sup>1</sup>						
Fiber Type	<i>S2</i>	Example	Attenuation (dB/km)			Optical Specification
			@ 1310 nm	@ 1385 nm	@ 1500 nm	
AllWave ZWP	<b>B</b>	AT-3 <b>BE</b> ____-nnn	0.35	0.31	0.25	ITU.652.D
AllWave+ ZWP	<b>C</b>	AT-3 <b>CE</b> ____-nnn	0.35	0.31	0.25	ITU.G652.D & G.657.A1 - Fully Backward Compatible
AllWave+ ZWP	<b>D</b>	AT-3 <b>DE</b> ____-nnn	0.35	0.31	0.22	ITU.G652.D & G.657.A1 - Fully Backward Compatible
AllWave LL ZWP <sup>2</sup>	<b>A</b>	AT-3 <b>AE</b> ____-nnn	0.33/0.34	0.31/0.31	0.19/0.22	ITU.G652.D
AllWave One ZWP	<b>F</b>	AT-3 <b>FE</b> ____-nnn	0.33/0.34	0.31/0.31	0.19/0.22	ITU.G652.D & G.657.A1 - Fully Backward Compatible

<sup>1</sup> AllWave LL and AllWave One cabled attenuation values are based on link design values (LDV). LDV is the maximum end-to-end link attenuation over a concatenated span of cable, not including splice loss for either a 50 km cable length minimum or 5 cable contiguous sections minimum.

<sup>2</sup> Attenuation values listed for loose tube cables/central core ribbon cables.



Fiber<sup>2</sup> Sheath Core Fiber Count  
 Ordering Syntax: **AT**-S1 S2 SF S3 S4 S5 S6 - nnn

SF - NZD Fiber Performance (Loose Tube and Central Core Cables)

TeraWave Fiber Performance <sup>1</sup>						
Fiber Type	<u>SF</u>	Example	Attenuation (dB/km)			Optical Specification
			@ 1310 nm	@ 1385 nm	@ 1500 nm	
TeraWave	<b>R</b>	AT-62 <b>R</b> ____-nnn	N/A	N/A	0.25	ITU.G654

<sup>1</sup> AllWave LL and AllWave One cabled attenuation values are based on link design values (LDV). LDV is the maximum end-to-end link attenuation over a concatenated span of cable, not including splice loss for either a 50 km cable length minimum or 5 cable contiguous sections minimum.

<sup>2</sup> Attenuation values listed for loose tube cables/central core ribbon cables.

These innovative new fiber types are available in the following OFS cable product families including: AccuTube® Ribbon in Loose Tube Cable, DryBlock® Cables, Fortex™ DT Cables, Fortex High-Density Armored Cable, MiDia® FX Cable, Mini C2™ DT Cable, OPTION1™ DT Cable, PowerGuide® Cables, AccuRibbon® DC Cables, AccuRibbon DC TL, Cable AccuRibbon DuctSaver® Dielectric Cable, AccuRibbon DuctSaver FX Cable AccuRibbon DuctSaver + Cable and AccuRibbon LXE Cable.

**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) from inside the USA or 1-770-798-5555 from outside the USA.

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