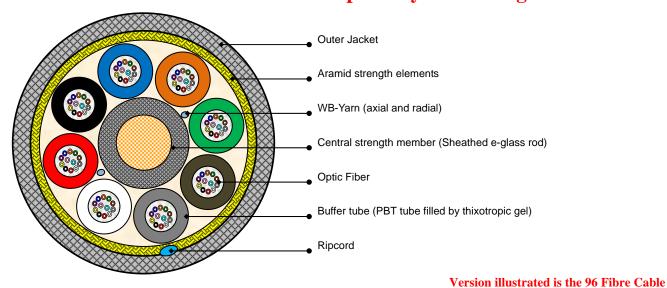


All-Dielectric Self Supporting (ADSS) Aerial Loose Tube Fiber Optic Cable Power Guide® Short Span Dry Core Design



<u>Features</u>

- Easily strippable sheath for quick, convenient cable preparation
- Dry Core Design Cable core water blocked by means of dry "water swellable" technology for quicker, cleaner cable prep for jointing
- Individual coloured tubes

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Max Span [m]	Cable MRCL [kg]	Cable RBS [kg]	AT-Code*
96	8 (12F)	1+8 (0 Filler)	$12.0^{+/-0,2}$	111	120	555	1032	AT-[][]]]17UT-096-COEA

This table shows nominal diameter and weight values which may differ in shipments.

*Please refer to the OFS AT- Code. The blanks specify the fibre type.

Identification

Tube and	d Fibre Co	lour Cod	e:								
1	Blue	2	Orange	3	Green	4	Brown	5	Grey	6	White
7	Red	8	Black	9	Yellow	10	Violet	11	Rose	12	Aqua

Alternative tube and fibre colour code available on request

Sheath Marking:

OFS OPTICAL CABLE [ID] [MM/YYYY] [Handset Sign] xxxF [Meter Marking]

Alternative sheath printing available on request. In case of order the exact sheath printing text will be clarified with the customer.

Marking color is WHITE. In the event of a reprint being required, then this will be in YELLOW. Cable ends are sealed by thermoplastic cap. Internal cable end is available for testing by customer.



	Parameter	Requirement	Value
Tensile Performance:	Long term load	 No attenuation increase* 	Load: 167 kg
IEC 60794-1-2-E1A and E1B		 No fibre strain 	
	Short term load,	– No changes in attenuation	Load: 555 kg
	during installation	before versus after load	
		 Max. fibre strain 0.3% 	
Crush Performance: IEC 60794-1-2-E3	Long term load	 No attenuation increase* 	Load (Plate/Plate): 2000 N
	Short term load	- No changes in attenuation	Load (Plate/Plate): 3000 N
		before versus after load	
		 No damage** 	
Impact Performance:	3 Impacts; 500 mm	 No changes in attenuation 	Load: 10 J
IEC 60794-1-2-E4	apart	before versus after load	
	Anvil: $R = 300 \text{ mm}$	 No damage** 	
Bending Performance:	Handling fixed installed	 No attenuation increase* 	Bend radius: 15 x D
IEC 60794-1-2-E11	During installation	– No changes in attenuation	Bend radius: 20 x D
	(under Load)	before versus after load	D is cable diameter
Temperatures:	Operation	 No attenuation increase* 	-40 to +70°C
IEC 60794-1-2-F1	Installation		-30 to +60°C
	Storage/Shipping		-40 to +70°C

Mechanical Properties and Environmental Behaviour

* No changes in attenuation means that any changes in measurement value, either positive or negative within the uncertainty of measurement shall be ignored. The total uncertainty of measurement shall be less than of equal to 0.05 dB. **Mechanical damage – when examined visually without magnification, there shall be no evidence of damage to the sheath. The imprint of plates will not be considered as damage.

Power Guide® Short Span Dry Core Cable Ordering Information

Example: AT-[][][]17UT-NNN ¹		
Fiber ² Sheath Core	Fiber Count	
Part Number: AT - <u>S1</u> <u>S2</u> <u>SF</u> <u>S3</u> <u>S4</u> <u>S5</u> <u>S6</u>		
S1 = Fiber Selection	$SF = Fiber Type^2$	S5 = Core Type
3 =1310/1550 nm (AllWave® One ZWP Fiber)	E = AllWave ZWP $U = 2.3 mm Gel-fille$ $6 = TrueWave RS LWP$ Buffer Tubes	
6 =1550 nm (TrueWave® RS LWP Fiber)		
R =850/1300 nm (Multimode Fiber)	$9 = 62.5/125 \ \mu m$ Multimode	
	$2 = 50/125 \ \mu m$ Multimode	
S2 = Fiber Transmission Performance	S3 = Sheath Construction	S6 = Fibers per Tube
F =0.33/0.31/0.25/0.19/0.20 dB/km @	1 = Single Jacket ADSS	2 = 2 fibers
1310/1385/1490/1550/1625 nm (AllWave One		4 = 4 fibers
ZWP)		6 = 6 fibers
2 =0.25 dB/km @ 1550 nm (TrueWave RS LWP)		8 = 8 fibers
U =3.4/1.0 dB/km and 200/500 MHz-km @		N = 10 fibers
850/1300 nm (62.5 μm Multimode)		T = 12 fibers
K =2.5/0.7 dB/km and 500/500 MHz-km @	S4 = Tensile Load	NNN = Fiber Count
850/1300 nm (50 μm Multimode)	7 = PowerGuide Cable	= 002 - 288

1 Part Number shown is for standard AllWave One ZWP attenuation and standard cable print: Maximum AllWave One ZWP attenuation: 0.33/0.31/0.25/0.19/0.20 dB/km @ 1310/1385/1490/1550/1625 nm

2 Contact OFS Order Management for information on other cable variations, including additional fi ber types, attenuation, and custom cable print.



Product Description: AT-XXX17UT-096-COEA - Maximum Span 120 m									
Loading Conditions: NESC HEAVY									
		Ice Thickness		12,7 mm					
		Wind Pressure	192	N/m^2 (63,6 k	m/hr)				
		Temperature		-17,8 C					
		Safety Factor		4,38 N/m					
	Tension	@ Maximum Span fo	r 1 % Install	ation Sag					
		Short Term		555 kg					
		Long Term		167 kg					
	Specifica	tions:							
		Maximum Span		120 m					
		Cable Weight		0,111 kg/m					
		Cable Diameter		12,0 mm					
		Installation Temp		20 C					
		Cable Modulus		608 kg/mm^2					
		Linear Expansion Co	pefficient 0	,00000911 1/	С				
		Estimated Break Loa	ad	1032 kg					
No Loading	g @ Instal	I Temperature: 20 C		All Lo	ading Cor	ditions @ Ten	nperature: -17,8	C	
Span	Sag	Install Sag	Tension	Vertical Sag	Tension	Vertical Sag	Horizontal Sag	Angle	
m	m	%	kg	% of Span	kg	m	m	Deg	
20	0,2	1,00	28	2,1	161	0,4	0,3	36	
40	0,4	1,00	56	2,7	258	1,1	0,8	36	
60	0,6	1,00	84	3,0	342	1,8	1,3	36	
80	0,8	1,00	111	3,3	417	2,6	1,9	36	
100	1,0	1,00	139	3,5	488	3,5	2,5	36	
120	1,2	1,00	167	3,7	555	4,5	3,2	36	





The industry's first zero water peak single-mode fibre for reliable full-spectrum performance + enhanced bend performance.

Overview

AllWave^{®+} Zero Water Peak (ZWP) Single-Mode Optical Fibre improves performance for optical transmission systems operating over any part of the entire wavelength range from 1260 nm to 1625 nm compared with conventional single-mode fibre. AllWave+ Fibre offers the exceptional performance of our AllWave Fibre specifications along with a 40% smaller minimum bend radius, a 50% lower bend loss and a 33% improved polarization mode dispersion (PMD) link design value. AllWave+ Fibre intermixes seamlessly with the installed base of single-mode fibres with a nominal mode field diameter of 9.2 μ m.

Product Description

AllWave+ Fibre is a combination ITU-T G.652.D and G.657.A1 compliant fibre ideally designed for use in backhaul, metropolitan, and FTTX networks. Developed and manufactured by OFS, AllWave+ Fibre provides low and stable loss performance in the 1360 – 1460 nm E-band; plus it offers reduced bending loss to improve performance for applications operating in the bend-sensitive 1460 – 1625 nm S, C, and L bands. Its bending performance is far superior to the G.652.D Recommendation and compliant to the G.657. A1 Recommendation, supporting a minimum bend radius of 10 mm and lower bend loss than conventional single-mode fibres. This low bending loss provides improved performance and service reliability and helps to reduce the size of cables and terminals for lower cost installations. AllWave+ Fibre also has the same 9.2 micron mode field (light carrying) diameter of the installed base of single-mode fibres, such as AllWave Fibre, which enables seamless splicing, testing, and faster network turn-up.

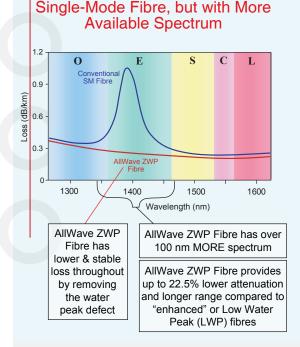
With a composition of high purity synthetic silica throughout both the core and cladding, AllWave+ Fibre has stable and permanent low loss and mechanical reliability. OFS' patented ZWP fibre manufacturing process, which eliminates the hydrogen-aging defects, provides a 50% increase in usable spectrum compared to G.652.A and G.652.B fibre. What's more, its ultra-low PMD enables speed and distance upgrades. AllWave+ Fibre offers dramatically improved performance in almost every characteristic over conventional single-mode fibre and is fully backward compatible to any G.652 compliant single-mode fibre.

Features/Benefits:

- Low optical loss across the entire spectrum from 1260 1625 nm
- Lower bending loss for improved performance and service reliability, and to help reduce the size of cables and terminals
- A 9.2 micron nominal mode field diameter to facilitate splicing and testing
- Geometric control at the industry's tightest level for ultra-low splice loss and improved connector performance
- Low, stable loss performance in the 1360

 1460 nm E-band, enabling 16-channel
 CWDM, DWDM, and FTTX support on a single fibre
- Comprised of high purity synthetic silica for long-term attenuation stability and mechanical reliability
- Ultra-low fibre PMD allows for speed and distance upgrades

Compatible with Conventional



Product Specifications

Physical Characteristics		
Clad Diameter	125.0 ± 0.7 μm	
Clad Non-Circularity	≤ 0.7 %	
Core/Clad Concentricity Error (Offset)	≤ 0.5 μm, < 0.2 μι	m typically
Coating Diameter (Natural)	235 - 245 µm	
Coating-Clad Concentricity Error (Offset)	≤ 12 µm	
Tensile Proof Test (Other proof test levels available on reques		
Coating Strip Force	Range: 1.0 N ≤ C	$SF \le 9.0 N$
Standard Reel Lengths	Up to 50.4 km (31	1.3 miles)
Optical Characteristics		
Attenuation	Maximum	Typical
at 1310 nm	≤ 0.34 dB/km	≤ 0.32 dB/kr
at 1385 nm	≤ 0.31 dB/km	≤ 0.28 dB/kr
at 1490 nm	≤ 0.24 dB/km	≤ 0.21 dB/kı
at 1550 nm	≤ 0.21 dB/km	≤ 0.19 dB/kı
at 1625 nm	≤ 0.24 dB/km	≤ 0.20 dB/kr
Attenuation vs. Wavelength		
Range (nm)	Reference (nm) λ	α
1285 – 1330	1310	0.03
1360 – 1480	1385	0.04
1525 – 1575	1550	0.02
1460 – 1625	1550	0.04
The attenuation in a given wavelength range does not exceed length (λ) by more than the value α .	d the attenuation of th	e reference way
Attenuation Uniformity / Point Discontinuities at 1310 nm and 1550 nm	≤ 0.05 dB	
-	specified values unde	er the following
-		-
deployment conditions:		-
deployment conditions: Deployment Condition	Wavelength Ir	nduced Attenuat
deployment conditions: Deployment Condition	Wavelength Ir 1550 nm	nduced Attenuat ≤ 0.75 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel	Wavelength Ir 1550 nm 1625 nm	nduced Attenuat ≤ 0.75 dB ≤ 1.50 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel	Wavelength Ir 1550 nm 1625 nm 1550 nm	nduced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB
Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel	Wavelength Ir 1550 nm 1625 nm 1550 nm 1625 nm	nduced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion	Wavelength Ir 1550 nm 1625 nm 1550 nm 1625 nm 1550 nm 1625 nm	nduced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ _o)	Wavelength Ir 1550 nm 1625 nm 1550 nm 1625 nm 1550 nm 1625 nm 1625 nm	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ ₀) Zero Dispersion Slope (S ₀)	Wavelength Ir 1550 nm 1625 nm 1550 nm 1625 nm 1550 nm 1625 nm 1625 nm 1300 – 1322 nm ≤ 0.090 ps/nm²-kr	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ ₀) Zero Dispersion Slope (S ₀) Typical Dispersion Slope	Wavelength Ir 1550 nm 1625 nm 1550 nm 1625 nm 1550 nm 1625 nm 1625 nm	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope (S_0) Typical Dispersion Slope Group Refractive Index	Wavelength In 1550 nm 1625 nm 1550 nm 1550 nm 1625 nm 1625 nm 0.087 ps/nm²-km 0.087 ps/nm²-km	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope (S $_0$) Typical Dispersion Slope Group Refractive Index at 1310 nm	Wavelength Ir 1550 nm 1625 nm 1550 nm 1625 nm 1625 nm 1625 nm 1300 – 1322 nm ≤ 0.090 ps/nm²-km 0.087 ps/nm²-km	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope (S_0) Typical Dispersion Slope Group Refractive Index	Wavelength In 1550 nm 1625 nm 1550 nm 1550 nm 1625 nm 1625 nm 0.087 ps/nm²-km 0.087 ps/nm²-km	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope (S 0) Typical Dispersion Slope Group Refractive Index at 1310 nm	Wavelength In 1550 nm 1625 nm 1550 nm 1625 nm 1625 nm 1550 nm 1625 nm 1625 nm 1300 – 1322 nm ≤ ≤ 0.090 ps/nm²-km 0.087 ps/nm²-km 1.467 1.468	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope (S $_0$) Typical Dispersion Slope Group Refractive Index at 1310 nm at 1550 nm	Wavelength Ir 1550 nm 1625 nm 1550 nm 1625 nm 1625 nm 1625 nm 1300 – 1322 nm ≤ 0.090 ps/nm²-km 0.087 ps/nm²-km	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ_o) Zero Dispersion Slope (S _o) Typical Dispersion Slope Group Refractive Index at 1310 nm at 1550 nm Mode Field Diameter	Wavelength In 1550 nm 1625 nm 1550 nm 1625 nm 1625 nm 1550 nm 1625 nm 1625 nm 1300 – 1322 nm ≤ ≤ 0.090 ps/nm²-km 0.087 ps/nm²-km 1.467 1.468	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope (S_0) Typical Dispersion Slope Group Refractive Index at 1310 nm at 1550 nm Mode Field Diameter at 1310 nm at 1550 nm Cut-off Wavelength (λ_{cc})	Wavelength Ir 1550 nm 1625 nm 1550 nm 1625 nm 1625 nm 1550 nm 1625 nm 1300 – 1322 nm ≤ 0.090 ps/nm ² -km 0.087 ps/nm ² -km 1.467 1.468 9.2 ± 0.4 µm	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope (S_0) Typical Dispersion Slope Group Refractive Index at 1310 nm at 1550 nm Mode Field Diameter at 1310 nm at 1550 nm Cut-off Wavelength (λ_{cc}) Polarization Mode Dispersion (PMD) ¹	Wavelength Ir 1550 nm 1625 nm 1550 nm 1625 nm 1625 nm 1625 nm 1550 nm 1625 nm 1550 nm 1625 nm 1000 – 1322 nm 0.090 ps/nm²-ki 0.087 ps/nm²-km 1.467 1.467 1.468 9.2 ± 0.4 μm 10.4 ± 0.5 μm ≤ 1260 nm	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope (S_0) Typical Dispersion Slope Group Refractive Index at 1310 nm at 1550 nm Mode Field Diameter at 1310 nm at 1550 nm Cut-off Wavelength (λ_{cc})	Wavelength In 1550 nm 1625 nm 1300 – 1322 nm 2 2 0.090 ps/nm²-km 0.087 ps/nm²-km 1.467 1.468 9.2 ± 0.4 μm 10.4 ± 0.5 μm ≤ 1260 nm ≤ < 0.04 ps/√km	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope (S_0) Typical Dispersion Slope Group Refractive Index at 1310 nm at 1550 nm Mode Field Diameter at 1310 nm at 1550 nm Cut-off Wavelength (λ_{cc}) Polarization Mode Dispersion (PMD) ¹	Wavelength Ir 1550 nm 1625 nm 1550 nm 1625 nm 1625 nm 1550 nm 1625 nm 1300 - 1322 nm ≤ 0.090 ps/nm ² -kn 0.087 ps/nm ² -km 1.467 1.467 1.468 9.2 ± 0.4 µm 10.4 ± 0.5 µm ≤ 1260 nm < 0.04 ps/ \sqrt{km}	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB
deployment conditions: Deployment Condition 1 turn on a 10 mm radius mandrel 10 turns on a 15 mm radius mandrel 100 turns on a 30 mm radius mandrel Chromatic Dispersion Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope (S $_0$) Typical Dispersion Slope Group Refractive Index at 1310 nm at 1550 nm Mode Field Diameter at 1310 nm at 1550 nm Cut-off Wavelength (λ_{cc}) Polarization Mode Dispersion (PMD) ¹ Fibre PMD Link Design Value (LDV) ²	Wavelength In 1550 nm 1625 nm 1300 – 1322 nm 2 2 0.090 ps/nm²-km 0.087 ps/nm²-km 1.467 1.468 9.2 ± 0.4 μm 10.4 ± 0.5 μm ≤ 1260 nm ≤ < 0.04 ps/√km	duced Attenuat ≤ 0.75 dB ≤ 1.50 dB ≤ 0.25 dB ≤ 1.00 dB ≤ 0.03 dB ≤ 0.03 dB

Environmental Characteristics (at 1310, 1550 & 1625 nm)

Temperature Cycling (-60º + 85º C)	≤ 0.05 dB/km
High Temperature Aging (85 $\pm 2^{\circ}$ C)	≤ 0.05 dB/km
Temperature & Humidity Cycling (at -10º C to +85º C and 85 to ~98% RH)	≤ 0.05 dB/km
Water Immersion (23 ± 2º C)	≤ 0.05 dB/km

Applications

AllWave+ Fibre provides outstanding cable performance and design freedom for fibre management systems in:

- FTTX
- Local access
- Mobile backhaul
- Metro access
- Metro edge
- Campus backbones
- Long haul

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For additional information please contact your sales representative.

You can also visit our website at: www.ofsoptics.com/ofs-fiber or call 1-888-fiberhelp (from inside the USA). For regional assistance, contact the global location closest to you.



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