

Maximum Attenuation for Singlemode Premises Cables

Application Note AN-961

The absolute loss shall not exceed the requirement in Table 1 below for any cabled fiber.

Table 1. *Attenuation Requirements for Singlemode Premises Optical Cable and Cordage*

Fiber Type	dB/km @ 1310 nm	dB/km @ 1550nm
AllWave® FLEX+ ZWP Bend-Insensitive	0.40	0.30
AllWave® ZWP	0.50	0.50
EZ Bend® Ultra Bend-Insensitive	0.40	0.30
TrueWave®RS	Not Applicable	0.50

Packaging effects may cause added transient attenuation in tight buffered fiber. The absolute loss shall not exceed the requirement in Table 2 below for any tight buffered fiber

Table 2. *Attenuation Requirements for Singlemode Tight Buffered Fiber*

Fiber Type	dB/km @ 1310 nm	dB/km @ 1550nm
AllWave® FLEX+ ZWP Bend-Insensitive	0.48	.36
AllWave® ZWP	0.60	0.60
EZ Bend® Ultra Bend-Insensitive	0.48	.36
TrueWave® RS	Not Applicable	0.60

The presence of aramid yarn in the core may create added attenuation in SBJ products the absolute loss shall not exceed the requirement in Table 3 below for any SBJ tight buffered fiber.

Table 3. *Attenuation Requirements for Singlemode SBJ Fiber*

Fiber Type	dB/km @ 1310 nm	dB/km @ 1550nm
AllWave® FLEX+ ZWP Bend-Insensitive	2.0	1.8
AllWave® ZWP	2.5	2.0

***Note:** Contact OFS Order Management for information on lower attenuation.