ofs
Leading Optical Innovations





AllWave® *FLEX* Jumpers
Zero Water Peak

Protecting and Enabling your Network for the Most Demanding Conditions!

Demanding Fiber-to-the-Home, Business, and Node (FTTx), Hybrid Fiber Coaxial (HFC), and other applications require connectivity solutions that provide superior optical performance with high reliability. To meet this challenge, OFS offers AllWave® *FLEX* ZWP Jumpers, the first ZWP jumpers to combine full spectrum low loss performance with very low bending loss.

As data rates and distances increase and power budgets tighten, it is imperative that optical components minimize signal loss to support current and future applications. Conventional Single-Mode Fiber (CSFM) jumpers on the market today may exhibit high bending and connector loss when installed in real networks, limiting distance, bandwidth, and network reliability. AllWave *FLEX* ZWP Jumpers combine low bending loss with OFS' very low loss LC or SC connectors to help enable superior performance in any patch panel system.

AllWave *FLEX* ZWP Jumpers also minimize heat generated by the combination of high power transmission and fiber bends, preventing premature fiber coating failure and burning of cordage materials.

Applications

- FTTx, HFC, xDSL and BPL nodes, and any other optical access network
- Patch Panels in the Central Office, Head End, or Cabinet
- Pigtails in Optical Network Units (ONUs).

Features & Benefits

- 5 times lower bending loss than conventional single-mode fiber (CSMF) jumpers
- 50% lower connector loss than CSMF jumpers
- Zero Water Peak, low loss performance
- Fiber superior to and compliant with ITU G.652D specifications

AllWave *FLEX* LC and SC Jumper Specifications*

Loss Maximum (per connector end)	0.25 dB
Return Loss Minimum (per connector end)	55 dB
Cable OD	1.6, 2 or 3 mm
Cable Retention (cordage)	20 lbs./88.9N
Mating Durability for 500 Reconnects Insertion Loss Change	< 0.2 dB
Temperature Stability (–40°C to +75°C) Insertion Loss Change	< 0.3 dB
Tip Material	Ceramic

* 0.25 dB Maximum insertion loss for LC and SC jumpers. All others are 0.5 dB maximum. Return loss values are per connector end.

Features & Benefits (cont'd)

- Improved network reliability and customer satisfaction
- Increased network reach, higher data rate potential
- Usable across the full spectrum of wavelengths for current applications and future upgrades
- Fully compatible with all single-mode systems and applications.

Performance

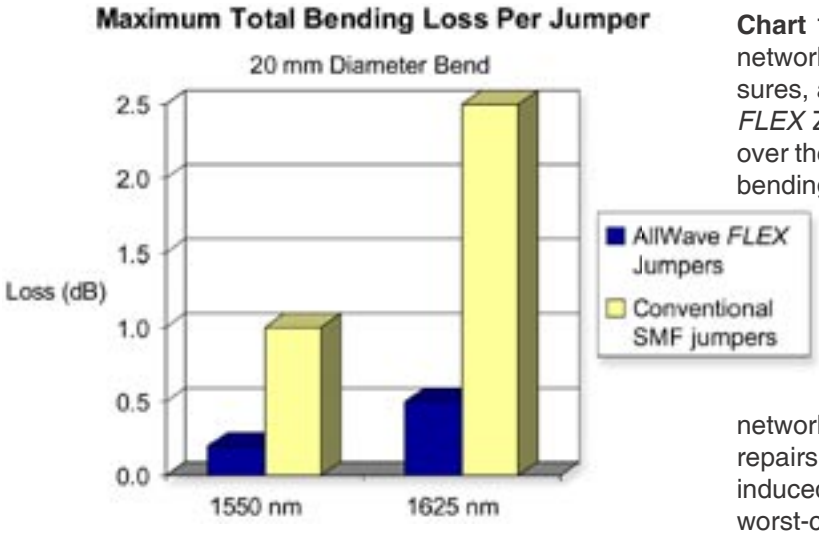

Chart 1 - Bending loss is a critical parameter in most networks - at the CO/Head End, in cabinets, in closures, and anywhere that fibers may be bent. AllWave *FLEX* ZWP Jumpers will enable low loss performance over the required wavelength range, even under severe bending which can easily occur accidentally in the hundreds of fibers serving a typical distribution area.

As shown to the left, conventional SMF jumpers can sap 1 to 2.5 dB of optical power from a network with just a single 20 mm (0.8") diameter bend. That can be enough loss to cause network failure, angry customers, and costly network repairs. With AllWave *FLEX* ZWP Jumpers, the loss induced by the same bending is only 0.2 dB to 0.5 dB worst-case, which typically can be absorbed by the design margin of most networks.

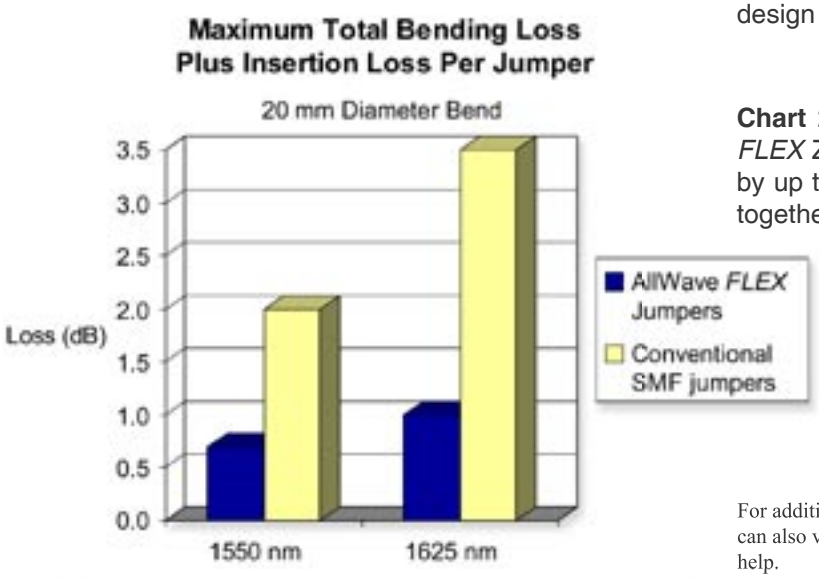

Chart 2 - In addition to lower bending loss, AllWave *FLEX* ZWP Jumpers lower insertion (connection) loss by up to 0.5 dB compared to CSMF jumpers. Put it all together and you can reduce loss by up to 2.5 dB per jumper using AllWave *FLEX* ZWP Jumpers.

AllWave *FLEX* Jumper Ordering Scheme

Example: MW2-LCU-LCU-05F

xWx - xxx - xxx - nnnnx

Cordage
Z - Zipcord 3.0 mm (2 fiber)
M - Minicord 1.6 mm assembly (1-72 fibers)
L - 3.0 mm cordage assembly (1 & 2 fiber)
W - 2.0 mm cordage assembly (1 fiber)

# of Ends
1 - simplex
2 - duplex

Termination Ends
LCU - LC UPC
LCU40 - LC 40° boot
LCA - LC UPC
LCUS - LC UPC w/soft boot
LCAS - LC angled soft boot
LCB - LC backplane
LCB40 - LC backplane w 40°
GLC - LC reference
FCU - FC UPC
SCU - SC UPC
STP - STII+ UCP
SCA - SC angled
FCA - FC angled
D4U - D4 UPC

Number of Fibers
001 - nnnn

Measure
F - Feet
M - Meters
IN - Inches

For additional information please contact your sales representative. You can also visit our website at http://www.ofsoptics.com or call 1-888-fiber-help.

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