

1 The G.657 standard was developed by the International Telecommunications Union (ITU) to provide consistency in the evolving requirements for bend-insensitive singlemode fiber. OFS was an active participant in the development of the ITU-T G.657 standard.

*What you should know:* This class of fiber enables cost reductions through compact cable designs, reduced space requirements and more relaxed deployment requirements.

It includes these G.652D-compliant designations for long-reach applications:

- G.657.A1 (10 mm minimum design radius)
- G.657.A2 (7.5 mm minimum design radius)

and these G.652-compatible designations for short-reach (< 1 km) drop applications:

- G.657.B2 (7.5 mm minimum design radius)
- G.657.B3 (5 mm minimum design radius)
- 2 As fiber deployments get closer to the consumer and the need for bandwidth grows exponentially, OFS continues to lead the way in bend-optimized fiber technology. As an innovator in optical fiber solutions, OFS has a long tradition researching optical bend capability and transforming industry-leading discoveries into real-world products.

*What you should know:* OFS' family of bend-optimized solutions includes AllWave® *FLEX* Fiber, the industry's first bend-insensitive zero water peak (ZWP) single-mode fiber, AllWave *FLEX*+ Fiber, and EZ-Bend® Optical Technology, which enables ultra bend-insensitive cables compatible with the installed base of fiber.

**3** The industry's first full-spectrum ZWP single-mode fiber, OFS' AllWave *FLEX* fiber exceeds the requirements of the G.657.A standard and is fully compatible with G.652.D fibers.

*What you should know:* AllWave *FLEX* fiber is a truly "bend-optimized" fiber. This G.657.A1 fiber offers low attenuation, excellent macrobend performance (which also guards against any long-term reliability threat from risky bends), exceptional PMD, and is fully splice-compatible with the existing installed base of fibers.

④ For in-building, central office and cabinet applications, OFS developed AllWave *FLEX*+ fiber, the first ZWP fiber to meet and exceed both ITU-IT G.657.A2/B2 and G.652.D specifications.

*What you should know:* This fiber offers enhanced bend performance ideally suited for in-building and connectivity applications and full compatibility and compliance with the installed base of conventional G.652.D single-mode fibers. It is an excellent choice for OSP drop cables for Fiber-to-the-Home (FTTH), cell sites, enterprise networks, or any application where small bend diameters may be encountered.

Recognizing the need to speed and simplify MDU in-home wiring applications, OFS developed EZ-Bend optical technology, which allows optical cables to be bent and routed in ways never before feasible with traditional drop cables.

*What you should know:* EZ-Bend technology, a G.657.B3 solution, can be bent to a 5 mm radius and stapled, with negligible signal loss and no degradation in transmission quality, offering reliable support for such FTTH applications as high-definition television, on-demand video, ultra high speed data, voice, and online gaming.

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