

GigaPOF-62SR

Perfluorinated short-reach POF

GigaPOF-62SR is a low attenuation, IR-transparent POF with higher bandwidth than any other type of plastic optical fiber. Offering easy termination, compatibility with conventional glass fiber transceivers, and tight bending capability, no other gigabit optical medium is so easy to use.

Graded-index perfluorinated POF: combining the best of the glass fiber and plastic fiber worlds

Until now, the simplicity of plastic optical fiber came with a heavy price: low performance and a restriction to visible wavelengths. The Chromis GigaPOF line overcomes that trade-off with low attenuation, IR-transparent perfluorinated polymer materials, a graded refractive index, and exacting geometric tolerances. GigaPOF-62SR easily supports Gigabit Ethernet and multi-gigabit applications at distances up to 100 meters, and Fast Ethernet up to 200 meters. When used with dispersion-compensating transceivers, 10-Gigabit Ethernet is supported up to 50 meters.

Gigabit transmission capability with the simplicity of plastic optical fiber

GigaPOF-62SR brings the simplicity of the plastic fiber optics to the world of gigabit optoelectronics. Like traditional plastic fibers, GigaPOF-62SR can be terminated with simple, inexpensive tools and polishes in seconds to a smooth, low-loss end-face.

Unlike brittle glass fibers, GigaPOF-62SR doesn't need special bend restrictions for long-term installed reliability. Depending on cable structure, GigaPOF-62SR handles long-term installed bend radii as small as 5 mm.

No need for special transceivers

GigaPOF-62SR cables can be used directly with standard multimode glass fiber transceivers at speeds up to 10 Gb/s.



Product Specifications

Transmission Characteristics	
Attenuation at 850 nm (dB/km)	≤ 60
Attenuation at 1300 nm (dB/km)	≤ 60
Bandwidth at 850 nm (MHz.km)	≥ 300
Numerical aperture	0.190 ± 0.015
Macrobend loss (dB for 10 turns on a 25 mm radius quarter circle)	≤ 0.35
Zero dispersion wavelength (nm)	1200-1650
Dispersion slope (ps/nm ² .km)	≤ 0.06
Physical Characteristics	
Core diameter (μm)	62.5 ± 5
Cladding diameter (μm)	490 ± 5
Core-cladding concentricity (μm)	≤ 5
Maximum tensile load (N)	7.0
Environmental Performance	
Temperature induced attenuation at 850 nm from -20 °C to +70 °C (dB/km)	≤ 5
Temperature induced attenuation at 850 nm from +75 °C 85% RH 30 day cycle (dB/km)	≤ 10