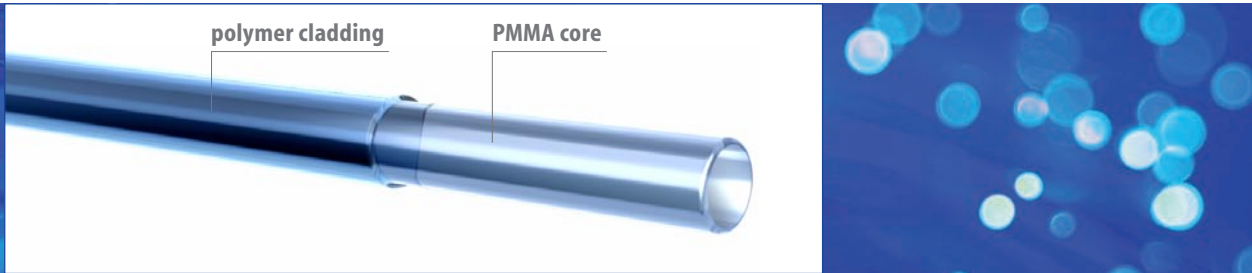


Low NA/high NA POF



Polymer Optical Fiber (POF)

Description	P980/1000 low NA	P980/1000 high NA	P980/1000 high temperature-POF
-------------	------------------	-------------------	--------------------------------

Geometric/thermal properties

Core diameter (μm)	980 ± 60	980 ± 60	980 ± 60
Cladding diameter (μm)	1000 ± 60	1000 ± 60	1000 ± 60
Working temperature (°C)	-40 to 70	-40 to 85	-55 to 105

Transmission properties

Wavelength (nm)	650	650	650
Attenuation max. (dB/km)	160	160	200
Min. bandwidth (MHz x 100 m)	150		
Numerical aperture	0.25	0.6	0.58

The low numerical aperture POF (low NA POF) is used to get higher data rates compared to the standard POF.

With increasing NA the acceptance angle of the signal coupled in increases, too. Therefore, the power budget of the system can be

increased for transmitters with broad angle emission. The same fiber and jacket dimension like the standard POFs allows an easy assembly of low-cost connectors.

Typical attenuation spectra for Low NA/high NA POF 1 mm Ø

