



FBG Specification

Parameter	Low reflectivity	Medium reflectivity	High reflectivity
Order number	FFT.FBG.S.00.01	FFT.FBG.S.00.02	FFT.FBG.S.00.03
Item description	Single FBG-20%-AC	Single FBG-50%-AC	Single FBG-70%-AC
Wavelength	1500-1600		
Wavelength accuracy	+/- 0,3nm		
Reflectivity	>20%	>50%	>70%
FWHM	<0,5nm		<0,6nm
SLRS	>15 dB		
Length	<6mm		
Tensile strength	> 3%		
Fiber length	2m		
FBG position	center		

Fiber Specification

Parameter	Single Mode Acrylate
Attenuation @1550nm	<0,22dB/km
Cutoff wavelength	<1260nm
Mode field diameter @1550nm	10,4µm
Numerical aperture	0,14
Cladding diameter	125µm
Coating type	Acrylate
Coating diameter	245µm
Max temperature	85°C (high temperature acrylate up to 180°C)

FEMTO Grating arrays and FEMTOPlus® Grating arrays

are produced according to customer specifications. FBG spacing from 0,1mm to several 100m.

In co-operation with FemtoFiberTec's sister company Loptek GmbH & Co.KG, which is specialized in the assembly of fiber optic light guides and sensors, calibrated and assembled sensors and complete sensing solutions, including the sensor and interrogation system, can be provided.