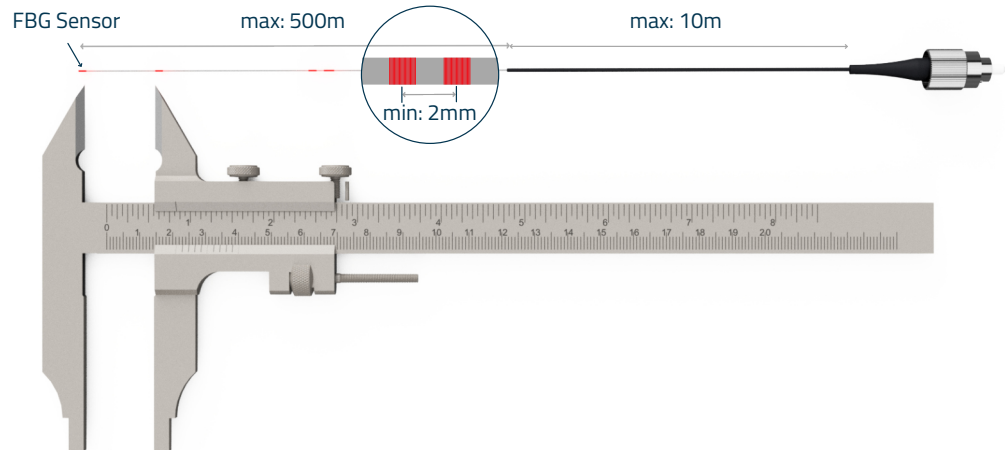


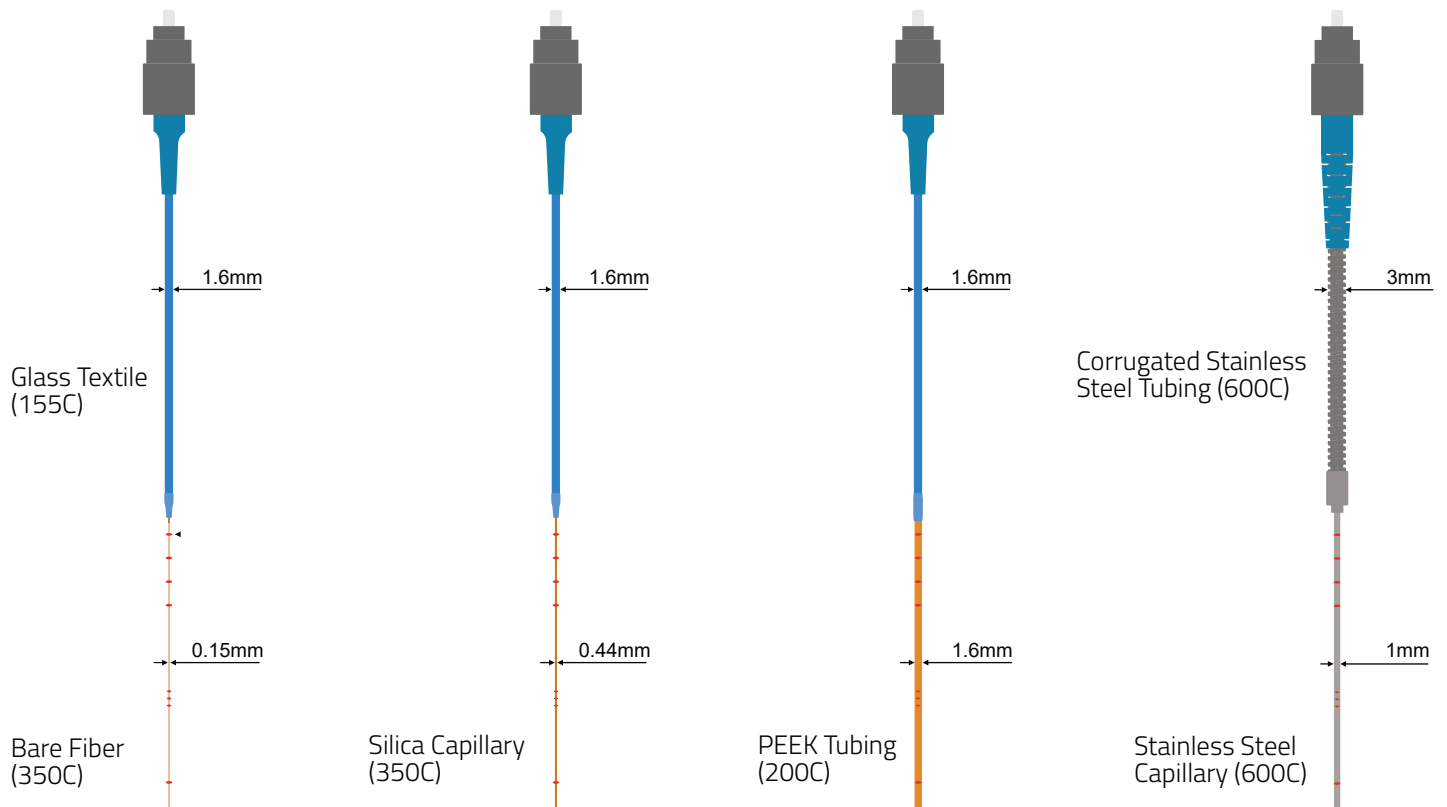
Fiberoptic Rapid Prototyping

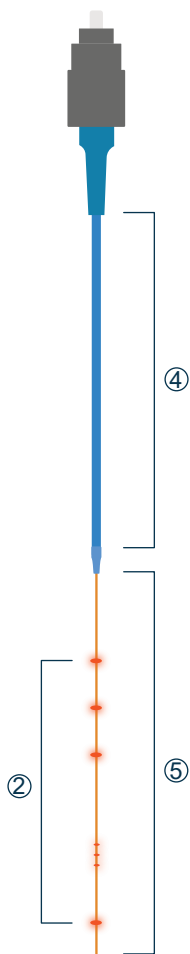
Tailored FBG Arrays for FiSpec Interrogators at 850nm

Up to 30 FBG at arbitrary Positions



Off-the-shelf Packaging Options





A FBG Array Part Number

① Sensor Type

P - Polyimide
A - Acrylate
UHS - Ultra-High Strength
UHT - Ultra-High Temp

③ Spectral Range

N - Narrow [808-865]
W - Wide [808-880]
C - Custom

⑤ Sensor Capillary

FI - Bare Fiber
PK - PEEK Tubing
SSC - SS Capillary
SI - Silica Capillary
HY - Hytrel Tubing
AC - Alumina Ceramic

T - 5 - N - GL - FI

② FBG Quantity

1 - 1 FBG
2 - 2 FBGs
...
30 - 30 FBGs

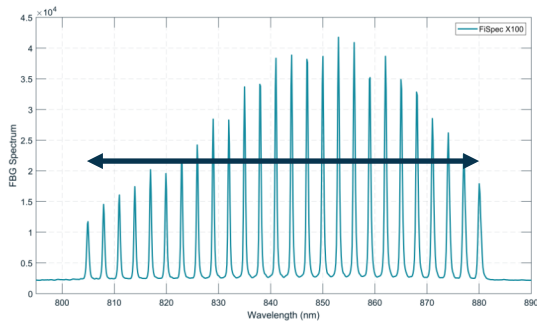
④ Lead-in Protection

GL - Glass Textile
SST - SS Flexible Tube
HY - Hytrel Buffer
LSZ - Standard Telecom

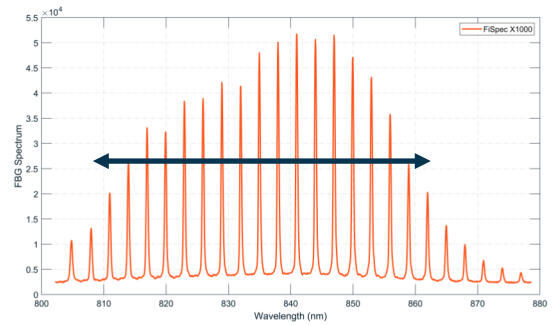
① Sensor Type

	Fiber	Application	Operating Temperature	Capillary Options (5)
P	SM800, Polyimide Coating	Strain, Temperature	-250...+300C	FI, PK, SSC, SI, HY
A	SM800, Acrylate Coating	Temperature	-40...+80C	FI, HY, PK
UHS	Pure Silica Core, Polyimide Coating	Strain	-250...+300C	FI
UHT	Pure Silica Core, No Coating	Temperature	-250...+800C	SSC, SI, AC

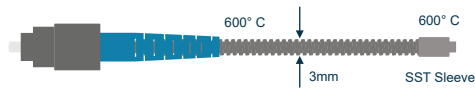
③ Wide Spectral Configuration
[for X100-X400]



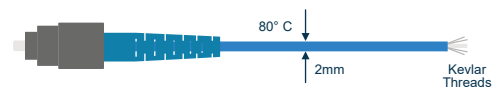
Narrow Spectral Configuration
[for X1000-X4000]



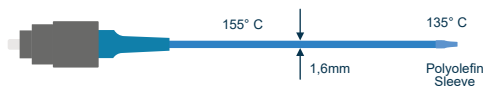
④ SST - Stainless Steel (1.4301)
Corrugated Tube



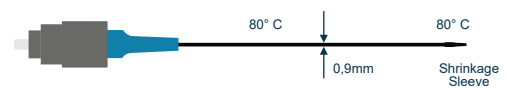
LSZ - Low Smoke Zero Halogen



GL - Glass Textile



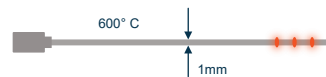
HY - Hytrel Buffer



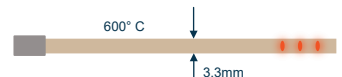
⑤ FI - Bare Fiber with
Polyimide Coating



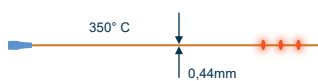
SSC - Stainless Steel
(1.4301) Capillary



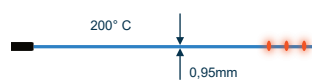
AC - Alumina Ceramic



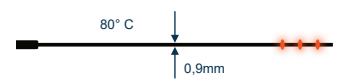
SI - Silica Capillary



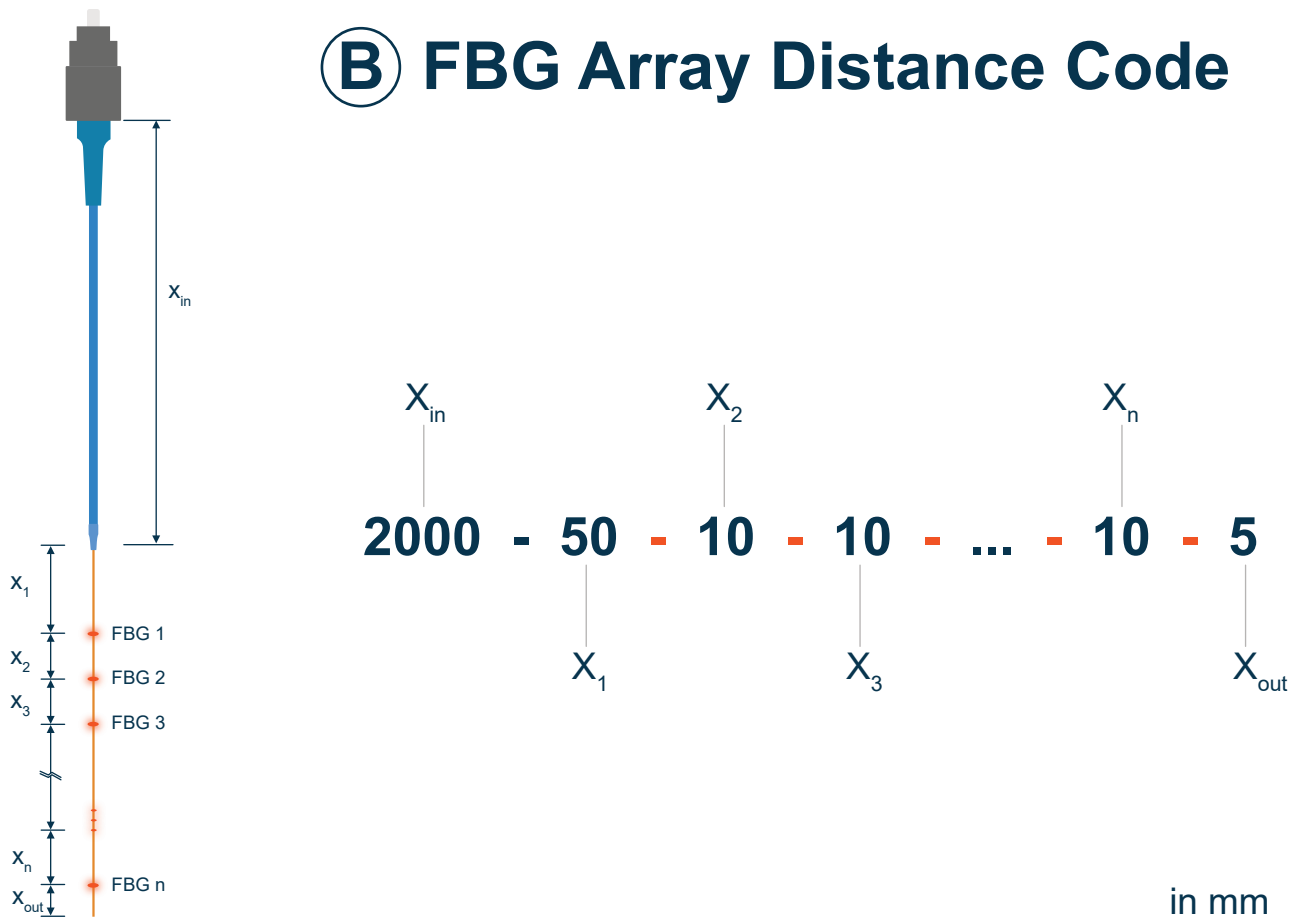
PK - PEEK Tubing



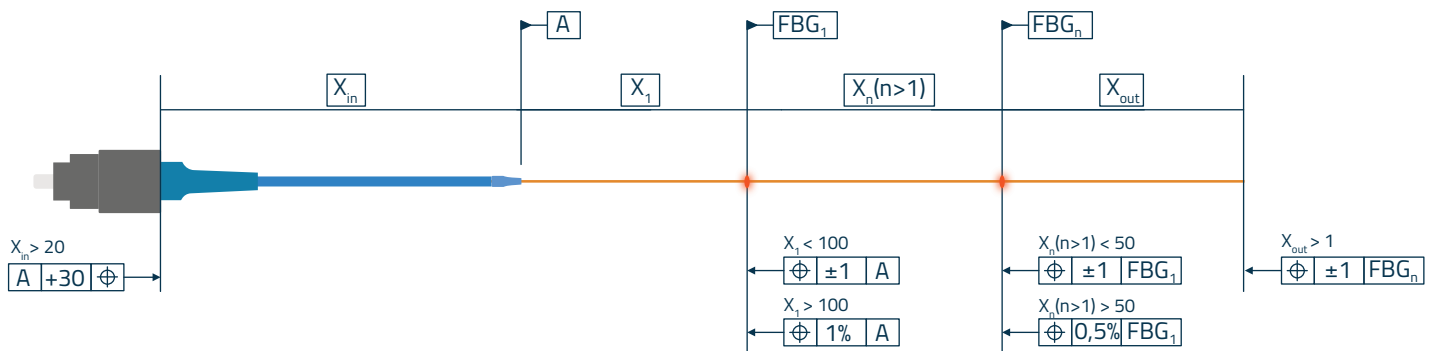
HY - Hytrel Tubing



Ⓑ FBG Array Distance Code



Length Tolerances (in mm)

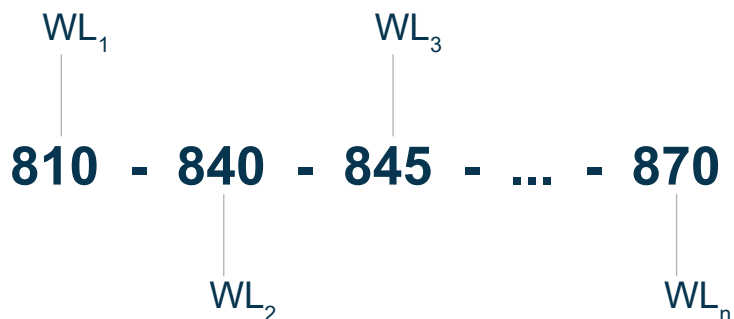


Length/Bending Limitations

	4. Lead-in Protection				5. Sensor Capillary				
	SST	LSZ	GL	HY	FI	SSC	SI	PK	AC
Crit. Bending Radius	15mm	10mm	5mm	5mm	5mm	100mm	20mm	40mm	-
Max length	10m	10m	5m	5m	500m	3m	2m	10m	1m
Min length	0,5m	0,5m	200mm	20mm	20mm	100mm	50mm	50mm	100mm

③ Custom FBG Wavelength Code

(only required if custom spectral range “C” has been chosen in the FBG Array Part Number A)



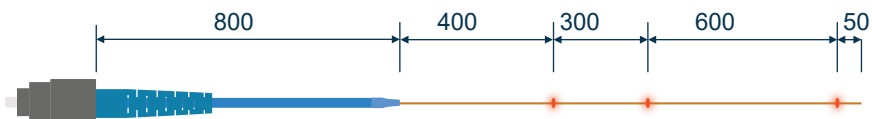
CWL Tolerance: 0,15nm

CWL Range: 800-900nm

Exemplary Order Codes

A: P-3-W-LSZ-SI

B: 800-400-300-600-50

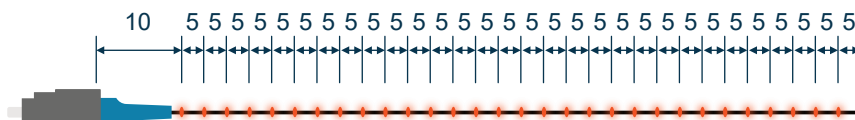


A: A-30-W-HY-HY

B: 10-5-5-5-5-5-5-5-5-5-5

-5-5-5-5-5-5-5-5-5-5-5-5-5-

5-5-5-5-5-5-5-5



A: UHS-4-C-NL-FI

B: 0-500-500-500-500-5

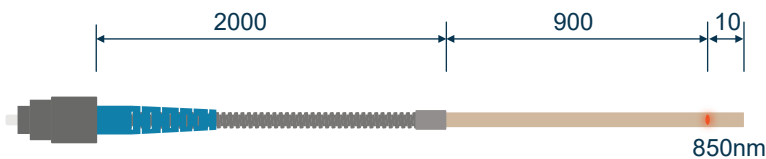
C: 830-840-850-860



A: UHT-1-C-SSC-AC

B: 2000-900-10

C: 850



in mm



Contact: sales@fisens.de



For more product information: www.fisens.com

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April 2023