

OPTICAL Components

# STIL OPTICAL FIBERS

## Chromatic Confocal Fiber







Standard fiber

#### Metal-clad fiber

Armored fiber

All optical fibers are Silica graded index fibers with 50µm core, E2000/APC connector for connection with controller and

FC/APC connector for connection with optical sensor head. Three types of protection are available :

- Standard fiber : with plastic protection. Best fit for the majority of applications.

- Metal-clad fiber : standard fiber with an additional metal clad. Best solution for hard environments.

- Armored fiber : the metal armor consists in a spiral steel tape used to house and protect the fibers, located between the Silica fiber and the plastic protection. The armored fibers, compared to the metal-clad optical fibers, present a smaller diameter and keep a maximum protection of the core, with a high resistance to tension and pressure, even higher than with a metal-clad version. Armored fibers remain weaker than metal-clad versions against excessive bending.

For specific demands, please ask your vendor



### SPECIFICATIONS\*

Fiber type	<b>.</b>	Minimum bending radius				
	External diameter	Static	Dynamic			
Standard	2,8 mm	25 mm	40 mm			
Metal clad	5 - 6,2 mm	40 mm	40 mm			
Armored	3 mm	30 mm	60 mm			

First usable frequency according to the type of optical fiber (Hz)													
Type of fiber		no fiber	E50-3	E50-5	E50-10	E50-3M	E50-5M	E50- 10M	E50- 15M	E50- 20M	E50- 3MA	E50- 5MA	E50- 10MA
Controller	CCS-Prima	100	100	100	200	200	200	200	400	400	100	200	200
	CCS-Optima+	500	500	500	1000	1000	1000	1000	1000	2500	500	500	1000
	STIL-Duo (CC)	100	100	100	200	200	200	200	400	400	100	200	200
	STIL-Duo (interf.)	40	40	40	100	40	100	100	100	100	40	100	100
	CCS-Prima+	400	1000	1000	1000	1000	1000	1000	2000	2000	1000	1000	1000



www.stil-sensors.com

CODE STRUCTURE

Length

Type of

#### info@stil-sensors.com

+33 (0)4 42 39 66 51

Specifications are subject to modifications

## Some of the items supplied by STIL S.A.S., or parts of them, may be subject to export control if exported outside the European Union, or may be subject to restrictive measures adopted by the competent national, supranational or international authorities. Buyer of the items delivered by STIL S.A.S. shall comply with all applicable export control and sanctions laws and regulations.