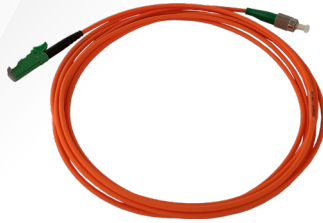


Chromatic Confocal Fiber



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 | External diameter | Minimum bending radius | |
|------------|-------------------|------------------------|---------|
| | | 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 | 1000 | 2000 | 2000 | 1000 | 1000 |



CODE STRUCTURE

