

ITF Technical Note

Rules of thumb for fiber handling

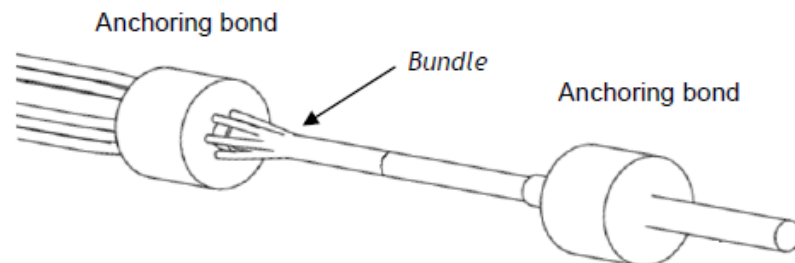
The fluoroacrylate (FA) layer of dual or triple clad fibers (DCF or TCF) is soft and does not adhere strongly to surrounding layers.

A study has been performed to evaluate the strength of components made with such fibers. The conclusion is that while the components are robust, the following precautions need to be observed:

	400um fiber	600um fiber
Maximum tension	0.5 lb _f (252g)	1 lb _f
Maximum torsion	0.225°/mm of fiber under torsion (i.e. 45° per 200mm)	0.082°/mm of fiber under torsion (i.e. 45° per 550mm)
Max. operating temperature	70°C	

The above tension and torsion limits apply at the worst case temperature of 70°C. The jacket strength increases as temperature reduces.

Internal structure



High power package

