

OPTICAL FIBER CABLE KINK TESTING MACHINE



Optical Fiber Cable Kink Testing Machine is used to determine the loop diameter at the onset of the kinking of an optical fiber cable in accordance with IEC-60794-1-2-E10.

APPLICATIONS

- **Telecommunication Fiber Cables** – Evaluates resistance to kinking during installation and handling to maintain transmission quality.
- **Elevator and Lift Cables** – Ensures optical fiber cables used in vertical transport systems withstand bending without deformation.
- **Industrial Cabling Systems** – Tests cables in automation, robotics, and factory environments where frequent looping and bending occur.
- **Building and Infrastructure Installations** – Confirms kink resistance of fiber optic cables routed through conduits, shafts, or tight spaces.
- **Transport and Automotive Applications** – Validates kink performance of cables exposed to confined routing and dynamic motion.
- **Aerospace and Defense Applications** – Assures that specialized fiber cables can endure loop formation without structural damage.
- **R&D and Quality Control Testing** – Provides manufacturers and laboratories with IEC 60794-1-2-E10 standardized evaluation for product certification.

THEORY & METHOD

The sample length shall be sufficient to carry out the specified test. The diameter of the loop shall be reduced to the onset of kinking by pulling slowly on the two ends. The forces at the bottom of the loop shall be applied in one plane. Unless otherwise specified, the conditions for testing shall be in accordance with standard atmospheric conditions. Concluding no

kink should occur.

TECHNICAL SPECIFICATIONS

Model	TTOFCK
Pulling head stroke	50-500 mm
Pulling speed	0 - 100 mm/s
Transparent cover	1000 x 700 mm
Storage temperature	-40 to + 60°C (-40 to +140°F)
Power supply	Please specify voltage and frequency before placing the order. Power must be free of spikes and surges exceeding 10% of the nominal voltage)
Dimension	2100 x 650 x 1925mm
Weight	200kg



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