



OPTICAL FIBER CABLE TENSILE TESTING MACHINE - INDOOR CABLE

IEC-60794-1-2 Method E1

Torontech's Optical Fiber Cable Tensile Testing Machine - Indoor Cable (for Bow Type Cables) series of Optical Cable Testing machines are designed specifically for indoor optical cables to apply tensile force on indoor optical cables; it also has an extensometer to measure the cable elongation for optical cable under tension.

In Optical Fiber Cable Tensile Testing Machine - Indoor Cable sample is wound over the approximate sized sheave, pulled at a specific rate until a pre-determined tension is applied. The test cable is further laid to rest under tension as per detail specifications, and then the attenuation and fiber length are measured.

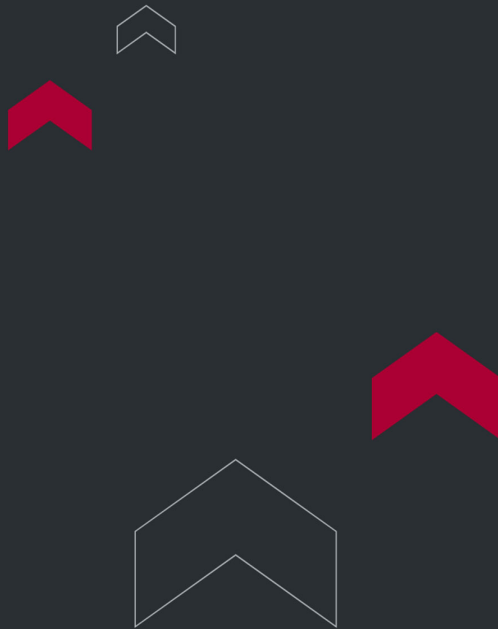
APPLICATIONS

- **Indoor Telecommunication Cables** – Evaluates tensile performance of bow-type and other indoor fiber optic cables during installation.
- **FTTH and FTTx Networks** – Confirms reliability of indoor drop cables used in fiber-to-the-home and office connections.
- **Building and Infrastructure Wiring** – Tests cable strength when routed through conduits, risers, or tight bends in indoor settings.
- **Data Centers and IT Facilities** – Ensures cables can handle mechanical stress without signal loss in high-density installations.
- **Elevator and Indoor Transport Systems** – Validates performance of cables subjected to vertical pulling within confined shafts.
- **Product Development and Quality Assurance** – Provides standardized IEC 60794-1-2 E1 testing for manufacturers and laboratories to certify compliance.

TECHNICAL SPECIFICATIONS

Model	TTOFCT-ID (Bow)	
Load capacity	2KN (other loads are available upon request)	
Accuracy class	±0.5% - ISO 7500-1	
Crosshead travel	500 mm	
Loading speed	0.2 - 500 mm/min	
Movable sheave	Ø250mm	
Load measurement accuracy	±0.5% of reading to 1/100 of load weighing system capacity meets or exceeds the ISO 7500-1	
Strain measurement accuracy:	±0.5% of reading to 1/50 of full scale with most ASTM E83 class B or ISO 9513 class 0.5 extensometers meets or exceeds ASTM E83, ISO 9513, and EN 10002-4.	
Speed accuracy:	Set speed <0.05% Max. speed: ±1% Set speed ≥0.05% Max. speed:±0.5%	
Position measurement accuracy:	±0.01% of reading or 0.0001 mm, whichever is greater	
Deformation measuring accuracy	±0.5%	
Displacement measuring accuracy	±0.3%	
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)	
Operating temperature	0 to +38°C (+32 to +100°F)	
Humidity range	10% to 90% non-condensing	
Storage temperature	-40 to +66°C (-40 to +150°F)	
Operational space (WxDxH)	(Flexible) x 1500 x 1200	
Dimension/Weight	Machine	Shipping Package

	Dimensions (LxWxH) mm	Net Weight Kg	Dimensions (LxWxH) mm	Gross Weight Kg
Load frame	1800 x 400 x 1200	140	1860 x 660 x 1440	160
Pulleys	1140 x 400 x 1200	90	1300 x 570 x 1440	110
Other Parts	1500 x 500 x 800	40	1600 x 600 x 1000	60
PC + Table	800 x 800 x 900	80	900 x 900 x 1100	110



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com

