

OPTICAL FIBER CABLE IMPACT TESTING MACHINE



Optical Fiber Cable Impact Testing Machine is used to determine the ability of optical fiber cable withstand impact in compliance with IEC-60794-1-2-E4.

APPLICATIONS

- **Telecommunication Fiber Cables** – Evaluates resistance to accidental impacts during handling, transport, or installation.
- **Outdoor and Harsh-Environment Cables** – Confirms durability of armored and outdoor fiber optic cables exposed to mechanical shocks.
- **Elevator and Vertical Transport Systems** – Tests reliability of cables subjected to sudden contact or repeated striking forces.
- **Industrial and Robotic Cabling** – Validates performance of cables installed in heavy-duty environments prone to mechanical impact.
- **Automotive and Rail Wiring** – Ensures cable safety and endurance under vibration and shock conditions.
- **Aerospace and Defense Applications** – Demonstrates impact resilience for critical mission systems requiring stable fiber connections.
- **Certification and Quality Assurance** – Provides standardized IEC 60794-1-2-E4 testing for manufacturers and laboratories.

THEORY & METHOD

Torontech's Optical Fiber Cable Impact Testing Machine is intended to determine the ability of optical fiber cable withstand impact, it has a hammer with a 20mm diameter to drop vertically on a cable sample fixed on a flat steel plate. It also allows single or multiple repeated impacts to be imparted on the cable sample. The energy of the impact is determined by the drop height and by the weight of the hammer.

TECHNICAL SPECIFICATIONS

Model	TTOFCI
Maximum drop height	1000 mm
Maximum impact cycles	1-9999 cycles
Frequency range	10 - 20 cycles/min
Hammer diameter	20mm ±1mm
Striking surface curvature radisu	300mm
Mass of striker (outdoor cable)	0.45 kg
Mass of weights	0.5kg x 5
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 of Working frame	1500 x 720 x 1800
Dimension of Console	400 x 300 x 800



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