



OPTICAL FIBER CABLE ABRASION TESTING MACHINE

The Optical Fiber Cable Abrasion Testing Machine TT- OFCA is designed to determine the ability of an optical fiber cable sheath and markings to resist abrasion.

Standards:

1. IEC-60794-1-2-E2A
2. IEC-60794-1-2-E2B

APPLICATIONS

- **Telecommunication Fiber Cables** – Tests sheath durability against abrasion during installation and long-term use.
- **Outdoor and Armored Cables** – Evaluates resistance to surface wear caused by environmental factors and handling.
- **Cable Markings Verification** – Assesses abrasion resistance of markings, labels, and identification codes to ensure long-lasting readability.
- **Industrial and Harsh-Environment Applications** – Confirms cable reliability where frequent contact with rough surfaces may occur.
- **Automotive and Transport Wiring** – Validates sheath and marking endurance under vibration and friction.
- **Research and Quality Control** – Provides IEC 60794-1-2-E2A/E2B standardized testing for product development and certification.

THEORY & METHOD

Optical Fiber Cable Abrasion Testing Machine

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Optical Fiber Cable Abrasion Testing Machine Securely attach the cable sample, measuring approximately 750 mm in length, to the supporting plate by means of cable clamps. The abrading edge shall be loaded with the mass necessary to provide the force stated in the detail specification whilst avoiding shock on the cable

- Method E2A: Abrasion Resistance of Optical Fiber Cable Sheaths
- Method E2B: Abrasion resistance of optical fiber cable markings
- Method E2B 1: Suitable for rigid marking types like embossing, indenting and sintering
- Method E2B 2: Applicable to marking types other than embossing, indenting and sintering

TECHNICAL SPECIFICATIONS

Model	TT-OFCA Series	
Abrading stroke for sheath	10 mm (steel needle)	
Abrading stroke for markings	Method 1 (steel needle)	Method 2 (wool felt)
	40 mm	100 mm
Abrading stroke cycles	1 ~ 9999 times	
Abrading frequency	55 ± 5 cycles/min	
Diameter of steel needle (Method 1)	1 mm	

Mass of weights	Bracket 5N x 2, Mass 5N x 2, Mass 10N x 2
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)
Working Frame Dimensions (WxDxH) mm	1300 x 650 x 1400



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