

## KS-OFCA Optical Fiber Cable Abrasion Testing Machine



### 1.Application:

KS-OFCA Series Optical Fiber Cable Abrasion Testing Machine is intended to determine the ability of optical fiber

cable withstand Abrasion

### 1.1 Object

The abrasion resistance of optical fiber cables has two aspects:

- a)The ability of the sheath to resist abrasion;
- b)The ability of cable markings to resist abrasion.

The purpose of this test is to determine the ability of an optical fiber cable sheath to resist abrasion. Abrasion testing of cable markings is method E2B.

### 1.2 Sample

The sample shall be of a length sufficient to carry out the specified test. A typical length is 750 mm.

### 1.3 Apparatus

The abrasion test rig consists of a device designed to abrade the surface of the cable in both directions parallel to the longitudinal axis of the cable over a length of 10 mm  $\pm$  1 mm at a frequency of 55 cycles/min  $\pm$  5 cycles/min. One cycle consists of one abrading edge movement in each direction.

The abrading edge shall be a steel needle with a diameter as specified in the detail specification.

### 1.4 Procedure

- a)Unless otherwise specified, the conditions for testing shall be in accordance with standard atmospheric conditions.
- b)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.

Four tests shall be made on each sample, with the sample moved forwards 100 mm between tests and rotated through an angle of 90° , always in the same direction.

## 1. Technical Parameters

Model	KS-OFCA
Attrition stroke	10mm, 40mm
Setting range of testing times	1~9999
Frequency	55 $\pm$ 5 times/min
Poise	10~100N
Power supply requirement	3-phase 4-wire, 50Hz, 0.37KW
Ambient humidity	less than 80% (Non-dewfall)

*KASON reserves the right to modify the technical and stetics characteristics included in this document, without previous notice*

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