1000mm Optical Fiber Cable Torsion Testing Machine

Introduction:

Optical Fiber Cable Torsion Testing Machine is intended to establish the ability of a fiber optic cable to withstand mechanical twisting.

Applications:

Sample

The length of the specimen under torsion should be sufficient to permit the appropriate clamping and twisting, and long enough to sustain the applied torsion. A typical value for small cables 1m, whereas larger cable samples are usually defined in terms of the cable diameter. A common length is 125 times the cable diameter. Armored cables may require a longer cable sample or a smaller number of torsion cycles.

Apparatus

The actual sample length is longer than the part under torsion to allow connecting the fibers to be tested. The twisting apparatus consists of two cable gripping devices or clamps, one fixed and one that can rotate. The distance between the clamps is connected to suitable turning equipment. The clamps are designed to prevent crushing force on cable and to allow the cable end to exit from both sides to allow optical measurements.

Power supply installation

While delivering from the factory, the power cord has been connected to the three-phase power plug with capability of 16A. If the re-installation is required, the user shall distinct the live wire and zero line. In order to avoid accidents, it is suggested that the user shall connect the ground wire for the equipment.

Test sample (optical cable) installation Go the optical cable through the cover of motor and out from loading head and pass two optical cable clamps in sequence. While clamping optical cable, firstly, fix the optical cable clamp close to loading head and then lift the poise frame and fix the optical cable clamp installed on sliding plate.

Then, add the poise according to the requirement.

Thus, the test can be carried out. The core of optical cable clamp shall be selected according to the diameter of optical cable. After putting it into the optical cable clamp, rotate the jamming handle to clamp the optical cable. If the diameter of the optical cable is smaller than the core of optical cable clamp, the optical cable shall be wrapped with something like cloth tape.

Parameter:

1. Torsion angle: ±90°, ±180°, ±360°;
2. Torsion length: 1000mm;
3. Setting range of testing times: 1～9999;
4. Setting range of frequency: 5-30 times/min;
5. The torsion times will be automatically recorded. When reaching to the preset times, the test is automatically terminated;
6. Mass of hammer: the mass of pre-stressed hammer is 27.5kg, in which, poise bracket (5kg), 4 5kg poises and 1 2.5 poise.
7. Dimension:

Host dimension: 2010×520mm

Dimension of control panel: 540×410mm
8. Power supply: 3-phase 4-wire, 50Hz, 1KW. In which, power of motor is 0.55KW;
9. Ambient temperature: 10℃～40℃
10. Ambient humidity: less than 80% (Non-condensing).

FOCUS IN MATERIAL TEST

KASONTEST®

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