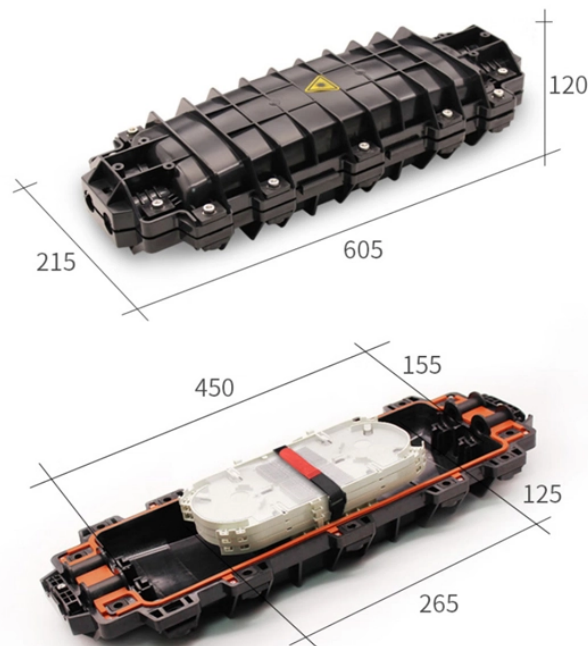


The excess length of stranded optical cable can be achieved



Overview

The method to calculate the excess fiber length in a stranded loose tube fiber optic cable is very easy. The formula is nothing but our old Pythagoras formula. In helical stranding, the elements form a screw line which may look like a spiral staircase. The length of pitch of this spiral screw line. A method for controlling excess fiber length (EFL) in a loose tube optical fiber buffer tube which includes traversing a just extruded plastic buffer tube, containing optical fibers and a filling compound, through a vertical cooling tower along a buffer tube path of travel in the cooling tower. 26 March 2016 Research of excess fiber length variation in loose tube and cable delivery length during fiber optic cable manufacturing You will have access to both the presentation and article (if available). This content is available for download via your institution's subscription. Excess fiber length can be defined as the additional physical fiber. The most critical thing is that during the stranding process, there is no intuitive and effective detection method for the actual level of the excess length of the sleeve fiber. The method of visual observation and adjustment by the operator has a large subjective difference, and the continuity and. One parameter of the loose tube design is excess fiber length.

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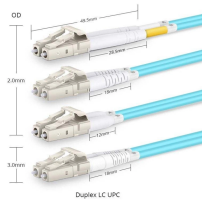
Thus, in multi-loose tube cables, affecting excess fiber length may be achieved through the stranding process in addition to that achieved during the process of producing the loose tube itself.



The excess fiber length measurements on the same optical fibers after some operations of optical cable fabrication and the analysis results of this data are introduced.



Excess fiber lies loosely coiled in the buffer tube; however, when the buffer tube itself is stretched, either by thermally induced expansion forces or by mechanical means, the excess fiber...



This document discusses fiber length difference between loose tubes that can occur during the stranding process used in optical fiber cable production. It analyzes how tension applied to loose tubes at ...



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Our EFL measurement system accurately measures the excess fiber length, ensuring products meet the desired product specifications. As a result, manufacturers are realizing a number of process, product ...



The accuracy of the adjustment, and the abnormal excess length of the loose tube fiber cannot be identified through the fiber attenuation data in the stranding process. Once it flows into the ...



In this paper, the optimal fiber length in optical ground wire (OPGW) cable during production process is determined.

Contact Us

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