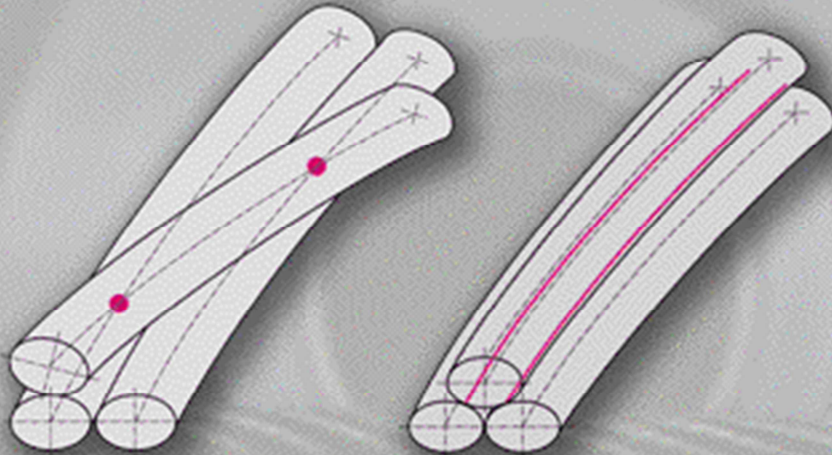


Parallel Lay

What is a parallel lay rope?

In a cross (non-parallel) lay strand all wires have different lay lengths, and in a cross (non-parallel) lay rope all strands have different lay lengths. The high stress concentration at the crossover points leads to an early internal failure.

In a parallel lay strand all wires have the same lay length, and in a parallel lay rope all strands have the same lay length. The linear contact leads to an optimal stress distribution.



cross (non-parallel) lay
stress concentration

parallel lay
stress distribution