



ENGLISH SPLICE.

For transmission rope.

The successive operations for splicing a 1¼-inch rope by this method are as follows:

1. Tie a piece of twine (9 and 10, figure 6) around the rope to be spliced, about six feet from each end. Then unlay the strands of each end back to the twine.

2. Butt the ropes together, and twist each corresponding pair of strands loosely, to keep them from being tangled, as shown (a) figure 6.

3. The twine 10 is now cut, and the strand

8 unlayed, and strand 7 carefully laid in its place for a distance of four and a half feet from the junction.

4. The strand 6 is next unlayed about one and a half feet, and strand 5 laid in its place.

5. The ends of the cores are now cut off so they just meet.

6. Unlay strand 1 four and a half feet, laying strand 2 in its place.

7. Unlay strand 3 one and a half feet, laying in strand 4.

8. Cut all the strands off to a length of about twenty inches, for convenience in manipulation. The rope now assumes the form shown in b, with the meeting-points of the strands three feet apart.

Each pair of strands is now successively subjected to the following operations:

9. From the point of meeting of the strands 8 and 7, unlay each one three turns; split both the strands 8 and 7 in halves, as far back as they are now unlayed, and "whip" the end of each half strand with a small piece of twine.

10. The half of the strand 7 is now laid in three turns, and the half of 8 also laid in three turns.

The half strands now meet and are tied in a simple knot, 11 (c) making the rope at this point its original size.

11. The rope is now opened with a marlin-spike, and the half strand of 7 worked around the half strand of 8 by passing the end of the half strand through the rope, as shown, drawn taut, and again worked around this half strand until it reaches the half strand 13 that was not laid in. This half strand 13 is now split, and the half strand 7 drawn through the opening thus made, and then tucked under the two adjacent strands as shown in d.

12. The other half of the strand 8 is now wound around the other half strand 7 in the same way. After each pair of strands has been treated in this manner, the ends are cut off at 12, leaving them about four inches long. After a few days' wear they will all draw into the body of the rope or wear off, so that the locality of the splice can scarcely be detected.