WIRE KOPE: Wire rope consists of several straineds twisted together like a helix Each strand is likewise made of metal wires doubt to gether like a helix. Initially wrought iron wires were used but today steel is the main material used for wire ropes.

TREFORMED WIRE KOPE: Preformed wire rope is a rope whose wires and strands have been preshaped to conform to the curvature which they take in finished rope. Preforming eliminates the locked up stress and strain existing in non-preprince wire rope, prevents the rope from Hying apart when cut on broken and resists Kinking. Prejohning helps to eliminate the tendency of a rope to rotate about its with anis. Preformed wire rope is more easily spliced since the strands fit perfortly into place. However, owing It he permanent helical stage of the strands, the technique of tucking the ends differs from that of non-preformed wire rope. This type of wire rope is designed to Igive entra life when used for operating ropes, particularly when used over small sheaves and when operating with small safely factors
Perprining is of greatest value when normall failures occur through faitique. I Préprined wire rope is et ao advantage when used as I standing rigging, or in applications where the chief-cause of fill we is abrasion on corrasion! In preformed wise rope the interned stress has been eliminated and the rope is "at rest". Preforming makes the individual wires & strands lie down to fit down the rope. When individual wires are pulled away from a prefirmed cable, they hold the wavy shape into which they have been preset during manyfecture. Field experience has proved that one of the greatest advantages of prefrmed wire, next to being cut is the ADVANTAGES:

Preformed ropes have the following movils as compared with non-preformed ropes:

A) Does not require scizing as they retain the rope structure.

B) Superior flexibility compared to non-preformed ropes Swingsropes Kicks scarcely ever occur during use.

Konger life because preformed wire ropes have a great endurance to bending.

D) Broken wire ends do not protrude to injure workmen's hand; distort adjacent wires or cause wear to she was forums.

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