DIFFERENT TYPES OF STEEL WIRE ROPE

LIFTING KNOW HOW

CLASSIFICATION BY CORE

The core is the central support around which the wire strands are laid.

Fibre Core (FC)

Made from natural fiber (sisal, manila) or synthetic fiber (polypropylene).



CHARACTERISTICS:

More flexible vs IWRC rope
Lower crush- and heat-resistant vs IWRC rope
More elongation vs IWRC rope

BEST FOR:

Applications where flexibility is critical
Lighter to medium lifting, sheaves with small diameters

Independent Wire Rope Core (IWRC)

A single steel strand used as the core.



CHARACTERISTICS:

Strongest option, up to 7% more strength than FC ropes
Better crush resistance, higher temperature rating than FC rope
Less flexible than FC rope

BEST FOR:

Standard duty lifting and multi-layer drum spooling
More demanding, higher load environments vs FC rope