

The AASF Facility is looking to purchase Hoist Cables for the Rescue Hoist mounted on the Medevac aircraft. These cables will be a replacement of the current cables that have reached their end-of-life cycle and are a requirement to allow the crews of this equipment to be fully mission capable and allow for better sustainability.

These cables should be the Four Strand and not the 19x7 cables that were used in the past. The Four Strand Cable is noticeably stiffer and constructed of all parallel wires, which are tightly compacted, as compared to the 19x7 cable that has more flexibility. The Four Strand cable is more rigid and is far more capable while conducting hoist. It is less susceptible to damage when applying a load to the cable, a lower tendency for oscillations, and has a lower possibility of damage when a cable is shock-loaded.

The Four Strand Cable is a rotationally resistant cable. It is much more resilient to the effects of rotation than a 19x7 cable when in rotation. Due to these characteristics, we are requesting to move away from the old 19x7 cables and adopt the four-strand cable, as it is longer lasting and more durable.

REFERENCE: TD-17-003, NSN: 4010-01-694-9091, PN: KT-681

Four Strand Cable	
Rated Operating Capacity.....	6000lbs rated load, 3500lb breaking strength
Construction.....	4 strands, 19 wires per strand
Characteristics.....	Rotation Resistant, Damage Resistant
Diameter.....	3/16" (0.188) inch
4-Strand Characteristics:	
High Operating Temperature.....	Equal to Capacity of Rescue Hoist Assembly
High Non-Operating Temperature.....	Equal to Capacity of Rescue Hoist Assembly
Low Operating Temperature.....	Equal to Capacity of Rescue Hoist Assembly
Low Non-Operating Temperature.....	Equal to Capacity of Rescue Hoist Assembly
Weight.....	6.8lbs per 100ft of cable
Lubricant (internal).....	Proprietary, high melting temperature
Salt Spray Resistant.....	Compliant
Sand Dust Resistant.....	Compliant
Standard Chemical Resistant.....	Compliant