

Appendix H

From Forest Service Standard 5100-500

3.5.2 Splices and Thimbles. Splices shall incorporate a minimum of four tucks. All thimbles shall be rated “extra heavy.”

3.5.3. Swaged Terminations. If swaged terminations in leadlines or remote hook suspension cable sections are used, such swages shall be stainless or carbon steel or copper. Aluminum swages shall not be used. Swages shall be painted for slippage check. Swages shall not be covered.

3.6. Provisions Applicable to Nets.

3.6.1. Thimbles. The extremities of heavy cargo nets shall be fitted with metal or plastic thimbles spliced or swaged to the ends of the net stands. (Note: Thimbles are optional on light cargo nets.) Thimbles shall not crack or break when the net on which they are installed is stressed to maximum safe working load, 3,000 lb (1,360 kg) for heavy cargo nets and 300 lb (136 kg) for light cargo nets. Other hardware or design features which perform the same function as thimbles may be used provided these strength requirements are met.

3.6.2. Perimeter Ropes. The perimeter ropes or cargo nets shall be made of Nylon or Dacron and treated for abrasion resistance by a minimum of two coats of solvent-carried polyurethane, 20 to 30 percent solids, or equal.

3.7. Product Marking. Each item shall be marked showing rated capacity, date of and load applied during proof test, and if such a test is required, manufacturer, date of manufacture or date of first service, and service life or strike data where applicable. Markings shall be permanently stamped or embossed on all metal items or on a metal or durable plastic tag that shall be securely attached to the item. Fabric items shall be securely tagged or marked.

4. Item Requirements. The items referred to in this standard are typical configurations of accessories considered standard in the Forest Service. The illustrations in this standard are for general information only, except that limitations in dimensions shown are mandatory.

4.1. Rings, Links, and Hooks. Minimum and maximum permissible dimensions for rings, links, and hooks used in leadlines, remote hook and carousel suspension cables, and to attach other accessories to either the helicopter cargo hook or any remote hook or carousel, are shown in figure 1. All hooks shall employ a safety latch.

4.2. Cargo Swivel. A cargo swivel consists of a ring or link on the upper end, a hook on the lower end, and a swivel section in between. The ring or link and hook may be integral with or detachable from the swivel body. Figure 2 illustrates a cargo swivel. Except for dimensions shown in figure 2, other dimensions shall be in accordance with figure 1. If detachable, components shall be replaceable and attached by bolts secured with self-locking nuts, or some other system that provides equivalent safety.

The swivel body shall incorporate a permanently lubricated and sealed thrust-type ball or roller bearing. Free swivel rotation shall be maintained for all loads up to the safe working load. The swivel shall be designed for minimum maintenance without special tools and equipment.

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All	Ring	Oblong Link		Pear Link			Hook with Snap		
A	B	C	D	E	F	G	H	I	J
5/3"max (15.8 mm)	3"min (76 mm) 4"max (102 mm)	3"min (76 mm) 4"max (102 mm)	1 1/2"min (38 mm) 3"max (76 mm)	3"min (76 mm) 4"max (102 mm)	1/2" (76 mm)	3/4"min min (12 mm)	-3/4"min (19 mm)	3/4"min (19 mm)	1 1/2" max (36 mm)

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Figure 1—Ring, link and hook limiting dimensions.

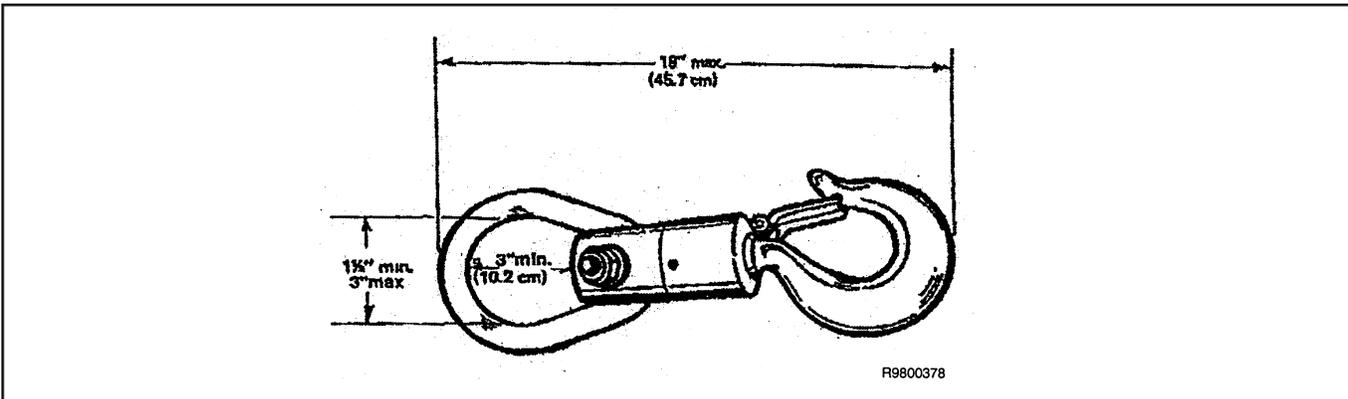


Figure 2—Cargo swivel.

4.3. Leadline. The leadline consists of a cable, as specified in 3.5.1, with a ring or link on one end, and a hook on the other end. All end loops for cables shall be formed around extra heavy metal thimbles and spliced or swaged as specified in 3.6.2 and 3.6.3. The user may specify the different lengths of 12 ft ± 3 in, 25 ft ± 3 in, or 50 ft ± 3 in (3.6 m, 7.6 m, 15.2 m ± 76 mm).