

Samson Mooring Pendants (Tails)

Efficient mooring pendants designed to reduce dynamic loads on primary mooring lines



It is important to choose a mooring pendant that provides adequate elongation to reduce dynamic loads induced on the primary mooring lines especially in exposed mooring berths.

Samson recommends the use of mooring pendants with our primary high-performance mooring lines to provide elasticity in the mooring system. This elasticity provides safer operations, and protection from surging and shock loading, especially in exposed mooring berths. Pendants also provide long-term performance benefits and longer service life.

KEY ASPECTS OF MOORING PENDANTS (TAILS):

- > **CONNECTION** The tails are to be connected to the primary mooring line by cow hitch (see figure below), or by shackle or link (typically Mandel, Tonsburg, or Boss).
- > **RETIREMENT/RESIDUAL STRENGTH** Per OCIMF guidelines, it is recommended to retire mooring tails after 18 months of use, or prior to residual strength reduction to 60% of the original minimum break strength (MBS).
- > **STANDARD LENGTH** The standard recommended overall length for mooring tails is 11-m (36.1-ft); however, for exposed moorings a 22-m (72.2-ft) tail provides additional elongation in the mooring arrangement.
- > **MINIMUM BREAK STRENGTH** Per OCIMF guidelines, polyester and blended mooring tails have a 25% higher MBS, and nylon (or polyamide) mooring tails should have a 37% higher MBS than the primary mooring line.

PENDANT (TAIL) CONFIGURATIONS:

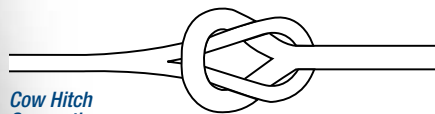


Single-Leg Standard single-leg pendants have a 2-m (6.6-ft) soft eye on one end and a 1-m (3.3-ft) soft eye on the other end. Hardware and chafe protection can be added upon request.



Grommet (Strop) Standard grommet pendants have 2-m (6.6-ft) and 1-m (3.3-ft) soft eyes formed by lashings. The body of the grommet is lashed together 3-m (9.8-ft) from each eye lashing. Grommet strength is 1.6x the single-leg rope strengths. Hardware, chafe protection, and additional whipping can be added upon request.

COW HITCH CONNECTION:



Cow Hitch Connection

After properly installing the mooring lines on the winch drum, the pendants should be attached to the working end of the mooring line. This is done by cow hitch connection per OCIMF guidelines.



Cow hitch connection, shown with pigtails to assist in separating the connection.

Samson Mooring Pendants (Tails)

Class I Efficient mooring pendants designed to reduce dynamic loads on primary mooring lines

HTP-12 Product Code: 703

HTP-12 Mooring Tail is a round-plaited 12-strand construction of high-tenacity polyester treated with our proprietary Pro-Gard Marine Finish. It has been tested and proven to meet the OCIMF guidelines of 85% strength efficiency for cow-hitch connections. HTP-12 is a safer, more efficient mooring tail that provides higher residual strength when compared with parallel-core type constructions.



CONSTRUCTION:
12-strand Round Plait
FIBER: 100% High-tenacity polyester
COLORS: White with red and green tracers

FEATURES AND BENEFITS

- > High cow-hitch efficiency per OCIMF guidelines
- > Ideal for use with Mandel and Tonsberg shackles
- > Higher residual strength than parallel-core constructions
- > Good flex-fatigue resistance
- > Good shock absorption
- > Easy to inspect and splice
- > Pro-Gard Marine Finish

APPLICATIONS

- > Mooring pendant (tail)
- > Shock absorbing pendant
- > Tug assist working line

Size Diameter INCHES	Weight per 100 Ft. POUNDS	Samson Avg. Strength* POUNDS	Samson Min. Strength* POUNDS	Size Diameter MILLIMETERS	Weight per 100m KILOGRAMS	Samson Avg. Strength* KILOGRAMS	Samson Min. Strength* METRIC TONS	ISO 2307 Strength** METRIC TONS	Grommet (Strop) ISO*** METRIC TONS
1-1/2"	72.0 lb	91,800 lb	82,600 lb	36 mm	107 kg	41,600 kg	37.5 t	41.6 t	66.6 t
1-5/8"	93.0 lb	113,000 lb	102,000 lb	40 mm	138 kg	51,300 kg	46.1 t	51.3 t	82.0 t
1-3/4"	111 lb	136,000 lb	122,000 lb	44 mm	165 kg	61,700 kg	55.5 t	61.7 t	98.7 t
1-7/8"	118 lb	145,000 lb	131,000 lb	46 mm	176 kg	65,800 kg	59.2 t	65.8 t	105 t
2"	130 lb	167,000 lb	150,000 lb	48 mm	193 kg	75,800 kg	68.2 t	75.8 t	121 t
2-1/8"	144 lb	181,000 lb	163,000 lb	52 mm	214 kg	82,100 kg	73.9 t	82.1 t	131 t
2-1/4"	162 lb	210,000 lb	189,000 lb	56 mm	241 kg	95,300 kg	85.7 t	95.3 t	152 t
2-3/8"	182 lb	231,000 lb	208,000 lb	57 mm	271 kg	105,000 kg	94.3 t	105 t	168 t
2-1/2"	198 lb	242,000 lb	218,000 lb	60 mm	295 kg	110,000 kg	98.8 t	110 t	176 t
2-5/8"	224 lb	267,000 lb	240,000 lb	64 mm	333 kg	121,000 kg	109 t	121 t	194 t
2-3/4"	257 lb	296,000 lb	266,000 lb	68 mm	382 kg	134,000 kg	121 t	134 t	215 t
2-7/8"	266 lb	317,000 lb	285,000 lb	70 mm	396 kg	144,000 kg	129 t	144 t	230 t
3"	292 lb	332,000 lb	299,000 lb	72 mm	434 kg	151,000 kg	136 t	151 t	241 t
3-1/8"	320 lb	361,000 lb	325,000 lb	76 mm	476 kg	164,000 kg	147 t	164 t	262 t
3-3/16"	355 lb	397,000 lb	357,000 lb	78 mm	528 kg	180,000 kg	162 t	180 t	288 t
3-7/16"	390 lb	430,000 lb	387,000 lb	84 mm	580 kg	195,000 kg	176 t	195 t	312 t

* Spliced strength ** This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths.
*** Grommet ISO equals 1.6x single-leg rope strengths.

RP-12 Nylon Product Code: 323

RP-12 Nylon Mooring Tail is a round-plaited 12-strand construction of nylon treated with our proprietary Pro-Gard Marine Finish. This combination provides reduced wet-strength loss, improved abrasion resistance, and high energy-absorbing properties in single-leg or strop (grommet) pendants. This line meets OCIMF guidelines and, in 22-ft lengths, provides additional elongation for exposed terminal moorings.



CONSTRUCTION:
12-strand Round Plait
FIBER: Nylon
COLOR: White

FEATURES AND BENEFITS

- > High strength
- > Shock mitigation
- > Excellent wet strength retention
- > Durable in wet conditions
- > Easy to splice
- > Single-leg or strop (grommet) configurations
- > 11- and 22-meter lengths
- > Meets OCIMF guidelines

APPLICATIONS

- > Traditional mooring tail
- > Exposed terminal moorings

Size Diameter INCHES	Weight per 100 Ft. POUNDS	Samson Avg. Strength* POUNDS	Samson Min. Strength* POUNDS	Size Diameter MILLIMETERS	Weight per 100m KILOGRAMS	Samson Avg. Strength* KILOGRAMS	Samson Min. Strength* METRIC TONS	ISO 2307 Strength** METRIC TONS	Grommet (Strop) ISO*** METRIC TONS
2"	95.9 lb	117,000 lb	105,000 lb	48 mm	143 kg	53,100 kg	47.8 t	53.1 t	84.9 t
2-1/8"	113 lb	138,000 lb	124,000 lb	52 mm	168 kg	62,600 kg	56.3 t	62.6 t	100 t
2-1/4"	135 lb	166,000 lb	149,000 lb	56 mm	201 kg	75,300 kg	67.8 t	75.3 t	120 t
2-1/2"	152 lb	186,000 lb	167,000 lb	60 mm	226 kg	84,400 kg	75.9 t	84.4 t	135 t
2-5/8"	169 lb	207,000 lb	186,000 lb	64 mm	251 kg	93,900 kg	84.5 t	93.9 t	150 t
2-3/4"	192 lb	235,000 lb	212,000 lb	68 mm	286 kg	107,000 kg	95.9 t	107 t	171 t
3"	220 lb	269,000 lb	242,000 lb	72 mm	327 kg	122,000 kg	110 t	122 t	195 t
3-1/4"	271 lb	315,000 lb	284,000 lb	80 mm	403 kg	143,000 kg	129 t	143 t	229 t
3-5/8"	321 lb	372,000 lb	335,000 lb	88 mm	478 kg	169,000 kg	152 t	169 t	270 t
3-3/4"	355 lb	404,000 lb	364,000 lb	92 mm	528 kg	183,000 kg	165 t	183 t	293 t
4"	389 lb	449,000 lb	404,000 lb	96 mm	579 kg	204,000 kg	183 t	204 t	326 t

* Spliced strength ** This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths.
*** Grommet ISO equals 1.6x single-leg rope strengths.

