

Samson Nylite Assemblies

SPOOLS, SHIELDS, AND SHACKLE ASSEMBLY

Easily installed into or removed from a premade soft eye. Nylite spool is only 1/7th the weight of steel. Connectors will not deform or rupture from repeated loadings. The shackle takes advantage of the high-strength Nylite connector and synthetic rope.

WORKING DETAILS

- > Working loads listed are in tons (2,000 lb).
- > Working loads, as given, are based on pin-bore relationship provided by use of the Nylite Shackle. When using a nonstandard pin, the working load as given DOES NOT APPLY.
- > The HP aluminum spool is available for use with high-performance Class II ropes in sizes -1 through -5.
- > Aluminum spools are not recommended for continuous use in submerged marine environments.
- > All working load values are based on a 4:1 safety factor.
- > Assembly ratings are based on the use of designated spools and shackles. Spools used in conjunction with other hardware are not rated by Samson.



NYLITE SHIELDS Product Code: 969

Nylite shields are designed for use with specific rope, spool, and shackle sizes. See chart below for information.



NYLITE SPOOLS

Product Code: 969



HP Aluminum Spool (sizes -1 to -5)

Nylite Spool (sizes -1 to -9)

SHACKLES

Product Code: 961



The working load limit (WLL) is stamped on each shackle.

-1 and -2 shackles are Electrolytic Zinc coated per ASTM B633-07 SC2 Type III.

Sizes -3 through -9 shackles are hot-dip galvanized per ASTM A123.

CLASS I ASSEMBLY Nylite Assembly with Nylon Spool

Shackle Type	Size	Shield Color	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size INCHES	Product Code	Assembly Working Load TONS	Weight Each POUNDS	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size MM	Working Load TONS	Weight Each KG
			MIN.	MAX.	MIN.	MAX.					MIN.	MAX.	MIN.	MAX.			
Zinc Plated	-1	Blue	3/8 in.	1/2 in.	1-1/8 in.	1-1/2 in.	2-3/16 in.	964-0320	1.1 tons	0.5 lb	10 mm	13 mm	29 mm	38 mm	56 mm	1.1 tons	0.2 kg
Zinc Plated	-2	Red	9/16 in.	5/8 in.	1-3/4 in.	2 in.	2-3/4 in.	964-0400	1.6 tons	1.0 lb	14 mm	16 mm	44 mm	51 mm	70 mm	1.6 tons	0.5 kg
Galvanized	-3	Green	3/4 in.	13/16 in.	2-1/4 in.	2-1/2 in.	3-3/4 in.	964-0520	2.5 tons	1.6 lb	19 mm	21 mm	57 mm	64 mm	95 mm	2.5 tons	0.7 kg
Galvanized	-4	Orange	7/8 in.	1-1/16 in.	2-3/4 in.	3-1/4 in.	4-7/8 in.	964-0680	4.5 tons	3.8 lb	22 mm	27 mm	70 mm	83 mm	124 mm	4.5 tons	1.7 kg
Galvanized	-5	Black	1-1/8 in.	1-5/16 in.	3-1/2 in.	4 in.	6-1/8 in.	964-0840	7.5 tons	6.2 lb	29 mm	33 mm	89 mm	102 mm	156 mm	7.5 tons	2.8 kg
Galvanized	-6	Yellow	1-1/2 in.	1-3/4 in.	4-1/2 in.	5-1/2 in.	7-5/8 in.	964-1120	12.5 tons	19 lb	38 mm	44 mm	114 mm	140 mm	194 mm	12.5 tons	8.6 kg
Galvanized	-7	Black	2 in.	2-1/4 in.	6 in.	7 in.	9-3/4 in.	964-1440	20.0 tons	24 lb	51 mm	57 mm	152 mm	178 mm	248 mm	20.0 tons	10.9 kg
Galvanized	-8	Black	2-1/2 in.	2-5/8 in.	7-1/2 in.	8 in.	11-1/4 in.	964-1680	25.0 tons	38 lb	64 mm	67 mm	191 mm	203 mm	286 mm	25.0 tons	17.2 kg
Galvanized	-9	Black	2-3/4 in.	3 1/4 in.	8-1/2 in.	10 in.	14 in.	964-2080	35.0 tons	64 lb	70 mm	83 mm	216 mm	254 mm	356 mm	35.0 tons	29.0 kg

-1 and -2 shackles are Electrolytic Zinc coated per ASTM B633-07 SC2 Type III. Sizes -3 through -9 shackles are hot-dip galvanized per ASTM A123.

CLASS II ASSEMBLY Nylite Assembly with HP Aluminum Spool

Shackle Type	Size	Shield Color	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size INCHES	Product Code	Assembly Working Load TONS	Weight Each POUNDS	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size MM	Working Load TONS	Weight Each KG
			MIN.	MAX.	MIN.	MAX.					MIN.	MAX.	MIN.	MAX.			
Zinc Plated	-1	Blue	3/8 in.	1/2 in.	1-1/8 in.	1-1/2 in.	2-3/16 in.	964-0321	2.7 tons	0.53 lb	10 mm	13 mm	29 mm	38 mm	56 mm	2.7 tons	1.2 kg
Zinc Plated	-2	Red	9/16 in.	5/8 in.	1-3/4 in.	2 in.	2-3/4 in.	964-0401	4.8 tons	1.06 lb	14 mm	16 mm	44 mm	51 mm	70 mm	4.8 tons	2.3 kg
Galvanized	-3	Green	3/4 in.	13/16 in.	2-1/4 in.	2-1/2 in.	3-3/4 in.	964-0521	5.8 tons	1.75 lb	19 mm	21 mm	57 mm	64 mm	95 mm	5.8 tons	3.9 kg
Galvanized	-4	Orange	7/8 in.	1-1/16 in.	2-3/4 in.	3-1/4 in.	4-7/8 in.	964-0681	11.5 tons	4.11 lb	22 mm	27 mm	70 mm	83 mm	124 mm	11.5 tons	9.1 kg
Galvanized	-5	Black	1-1/8 in.	1-5/16 in.	3-1/2 in.	4 in.	6-1/8 in.	964-0841	14.0 tons	6.78 lb	29 mm	33 mm	89 mm	102 mm	156 mm	14.0 tons	14.9 kg

-1 and -2 shackles are Electrolytic Zinc coated per ASTM B633-07 SC2 Type III. Sizes -3 through -9 shackles are hot-dip galvanized per ASTM A123.

Size	Spool Inside Dia.	Spool Outside Dia.	Pin* Diameter	A	B	C	D	E	F	G
-1	.46 in.	1.50 in.	.44 in.	.88 in.	1.08 in.	1.11 in.	2.41 in.	.38 in.	1.99 in.	2.34 in.
-2	.58 in.	1.75 in.	.56 in.	1.13 in.	1.21 in.	1.38 in.	3.11 in.	.50 in.	2.38 in.	2.88 in.
-3	.64 in.	2.25 in.	.63 in.	1.38 in.	1.61 in.	1.77 in.	3.54 in.	.56 in.	3.02 in.	3.70 in.
-4	.89 in.	3.00 in.	.88 in.	1.75 in.	1.90 in.	2.29 in.	4.70 in.	.75 in.	3.79 in.	4.71 in.
-5	1.02 in.	3.75 in.	1.00 in.	2.13 in.	2.15 in.	2.85 in.	5.55 in.	.88 in.	4.85 in.	5.95 in.
-6	1.54 in.	5.00 in.	1.50 in.	2.63 in.	3.14 in.	3.80 in.	7.75 in.	1.37 in.	6.30 in.	7.85 in.
-7	1.75 in.	6.25 in.	1.63 in.	3.25 in.	3.75 in.	4.80 in.	8.90 in.	1.50 in.	7.93 in.	9.89 in.
-8	2.00 in.	7.25 in.	1.75 in.	3.75 in.	4.13 in.	5.61 in.	10.13 in.	1.75 in.	9.24 in.	11.47 in.
-9	2.25 in.	9.00 in.	2.00 in.	4.63 in.	5.06 in.	6.95 in.	12.15 in.	2.00 in.	11.45 in.	14.28 in.

*Sizes -1 to -5 are supplied with jam nuts and cotter pins. Larger sizes have cotter pins and standard nuts.

