

S0300-BV-CAT-010

SALVAGE SYNTHETIC LINE

System - S23000

The Salvage Synthetic Line System consists of numerous lines with physical/performance characteristics that can be applied to various lifting, mooring, rigging, or other applications during salvage operations. The synthetic lines are made of several materials and constructions, each of which has unique characteristics of strength, weight, stretch, chafe resistance, and flexibility. The line type and size needed for the assigned salvage task is determined by the onsite supervisor to satisfy the many constraints of the salvage scenario (depth of water, mass of object, recovery equipment used, etc.). The line fiber material may be aramid, nylon, polyester, or polyethylene, and the construction may be multi-strand, single or double braid. Lines are available in various lengths, line diameter, material, onstruction, and can be obtained with soft or hard eyes, thimbles, links, or other end fittings, as determined by the onsite requirements.

Aramid fiber (e.g., Kevlar) line is a high-strength, low-stretch, multi-fiber line. The strength members of the line are contained within an outer braided cover. The line is used for lifting heavy loads in deepwater salvage applications because of its high strength-to-weight ratio. The line has limited resistance to abrasion. Care must be taken when designing the salvage system in sizing and aligning blocks, sheaves, and lifting components. Aramid fiber line can be obtained in diameters of 3/8, 3/4, 1, 1 1/2, and 2 inches, and in lengths of up to 24,000 feet, with soft or hard eyes, thimbles, links, or other end fittings, as determined by onsite requirements. Aramid fiber line is shipped on a wooden or metal reel, as requested. The shipping weight and volume will be determined by the diameter and length of the line and the reel required to store it.

SEE INVENTORY FOR MODEL, MATERIAL, CONSTRUCTION, SIZE, AND END FITTINGS

System Components for S23000

Alternates

ESSM No	Nomenclature	Type	Qty	NS	Cont
LN0131	LINE, NYLON, DOUBLE BRAID, 7" CIR X 1000'	BL	1		
LN1600	LINE, ULTRA BLUE, 1" DIA X 530', 6" SEOE, OEB	BL	1		
LN1929A	LINE, POLYESTER, 1 5/8" X 275', SE ONE (NOT CERTIFIED)	BL	1		
LN1930A	LINE, POLYESTER, 1 5/8" X 300', SE ONE (NOT CERTIFIED)	BL	1		
LN1931A	LINE, POLY, 1-5/8"X 600', SE EA END (NOT CERTIFIED)	BL	1		
LN2086	LINE, DURON, STABLE BRAID, 4 1/2" CIR X 6000', THIMBLE AND	BL	1		
LN2087	LINE, DURON, STABLE BRAID, 4 1/2" CIR X 8000', THIMBLE AND	BL	1		
LN2090	LINE, DURON, STABLE BRAID, 4 1/2" CIR X 4700', THIMBLE AND	BL	1		
LN2140	LINE, POLYESTER, DOUBLE BRAID, 8" CIR X 1800'	BL	1		
LN2300	LINE, PLASMA 12X12 HMPE, 7 1/2" CIR X 75' (TEST PROGRAM)	BL	1		

Baseline verified on 6/11/2019, * Not shown in catalog.

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ESSM - LN0131 LINE, NYLON, DOUBLE BRAID, 7" CIR X 1000'

Specifications

Type	Description	Qty
Manufacturer	Samson Rope	
Model/Trademark	Stable braid	
Material	Polyester	
Construction	Double Braid class 1	
Diameter	2-1/4"	
Circumference	7"	
Length	1000'	
End Fittings	Thimble each end	
Wt per 100 Ft	173 lb	
Breaking Strength	141,000 lb (reference 1)	
Working Load Limit (WLL)	23,500 lb	

Physical Characteristics

Type	Descriptions		
	Shipping		
Length	5 ft, 10 in		
Width	4 ft, 8 in		
Height	4 ft, 8 in		
Cube	128 cu ft		
Footprint	28 sq ft		
Weight	3195 lb		

References

Ref No	Reference
1	Samson Rope Catalog - Commercial Marine

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ESSM - LN1600 LINE, ULTRA BLUE, 1" DIA X 530', 6" SEOE, OEB

Specifications

Type	Description	Qty
Manufacturer	Samson	
Model/Trademark	RP-12 Ultra Blue	
Material	Ultra Blue Polyolefin	
Construction	12 strand braid	
Diameter	1"	
Circumference	3"	
Length	530'	
End Fittings	6" soft eye one end, other end bitter	
Wt per 100 Ft	23 lb	
Breaking Strength	25,000 lb (reference 1)	
Working Load Limit (WLL)	4,167 lb	

Physical Characteristics

Type	Descriptions		
	Shipping		
Length	2 ft, 6 in		
Width	2 ft, 6 in		
Height	2 ft, 2 in		
Cube	14 cu ft		
Footprint	7 sq ft		
Weight	210 lb		

References

Ref No	Reference
1	Samson Rope Catalog - Commercial Marine

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SALVAGE SYNTHETIC LINE

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ESSM - LN1929A
LINE, POLYESTER, 1 5/8" X 275', SE ONE END (NOT CERTIFIED)

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SALVAGE SYNTHETIC LINE

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ESSM - LN1930A
LINE, POLYESTER, 1 5/8" X 300', SE ONE END (NOT CERTIFIED)

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SALVAGE SYNTHETIC LINE

System - S23000

ESSM - LN1931A
LINE, POLY, 1-5/8"X 600', SE EA END (NOT CERTIFIED)

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SALVAGE SYNTHETIC LINE

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ESSM - LN2086

LINE, DURON, STABLE BRAID, 4 1/2" CIR X 6000', THIMBLE AND LINK ONE END

Specifications

Type	Description	Qty
Manufacturer	Samson	
Model/Trademark	Stable Braid	
Material	Polyester	
Construction	Double Braid	
Diameter	1-1/2"	
Circumference	4-1/2"	
Length	6,000'	
End Fittings	Thimble and link one end	
Wt per 100 Ft	73 lb	
Breaking Strength	63,800 lb (refernece 1)	
Working Load Limit (WLL)	10,633 lb	

Physical Characteristics

Type	Descriptions		
	Shipping		
Length	8 ft, 4 in		
Width	4 ft, 6 in		
Height	4 ft, 6 in		
Cube	169 cu ft		
Footprint	38 sq ft		
Weight	5000 lb		

References

Ref No	Reference
1	Samson Rope Catalog - Commercial Marine

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SALVAGE SYNTHETIC LINE

System - S23000

ESSM - LN2087

LINE, DURON, STABLE BRAID, 4 1/2" CIR X 8000', THIMBLE AND LINK ONE END

Specifications

Type	Description	Qty
Manufacturer	Samson	
Model/Trademark	Stable Braid	
Material	Polyester	
Construction	Double Braid	
Diameter	1-1/2"	
Circumference	4-1/2"	
Length	8,000'	
End Fittings	Thimble and link one end	
Wt per 100 Ft	63 lb	
Breaking Strength	63,800 lb (reference 1)	
Working Load Limit (WLL)	10,633 b	

Physical Characteristics

Type	Descriptions		
	Shipping		
Length	8 ft, 5 in		
Width	5 ft, 8 in		
Height	5 ft, 0 in		
Cube	239 cu ft		
Footprint	48 sq ft		
Weight	6980 lb		

References

Ref No	Reference
1	Samson Rope Catalog - Commercial Marine

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SALVAGE SYNTHETIC LINE

System - S23000

ESSM - LN2090

LINE, DURON, STABLE BRAID, 4 1/2" CIR X 4700', THIMBLE AND LINK ONE END

Specifications

Type	Description	Qty
Manufacturer	Samson	
Model/Trademark	Stable Braid	
Material	Polyester	
Construction	Double Braid	
Diameter	1-1/2"	
Circumference	4-1/2"	
Length	4700'	
End Fittings	Thimble and link one end	
Wt per 100 Ft	73 lb	
Breaking Strength	63,800 lb (reference 1)	
Working Load Limit (WLL)	10,200 lb	
Critical load limit	6,120 lb	

Physical Characteristics

Type	Descriptions		
	Shipping		
Length	8 ft, 4 in		
Width	4 ft, 6 in		
Height	4 ft, 6 in		
Cube	169 cu ft		
Footprint	38 sq ft		
Weight	4850 lb		

References

Ref No	Reference
1	Samson Rope Catalog - Commercial Marine

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ESSM - LN2140 LINE, POLYESTER, DOUBLE BRAID, 8" CIR X 1800'

Specifications

Type	Description	Qty
Manufacturer	Samson Ropes	
Model/Trademark	Stable Braid	
Material	Polyester	
Construction	Double Braid	
Diameter	2-5/8"	
Circumference	8"	
Length	1,800'	
End Fittings	Bitter ends	
Wt per 100 Ft	224 lb	
Breaking Strength	180,000 lb	
Working Load Limit (WLL)	30,000 lb	

Physical Characteristics

Type	Descriptions		
	Shipping		
Length	6 ft, 6 in		
Width	6 ft, 6 in		
Height	5 ft, 0 in		
Cube	212 cu ft		
Footprint	43 sq ft		
Weight	4890 lb		

References

Ref No	Reference
1	Samson Rope Catalog - Commercial Marine

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SALVAGE SYNTHETIC LINE

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ESSM - LN2300 LINE, PLASMA 12X12 HMPE, 7 1/2" CIR X 75' (TEST PROGRAM)

Specifications

Type	Description	Qty
Manufacturer	Cortland Limited	
Model/Trademark	Plasma 12x12	
Material	High Modulus Polyethylene (HMPE)	
Construction	12 x 12-Strand Braid	
Diameter	2-1/2"	
Circumference	7-1/2"	
Length	75'	
End Fittings	Bitter ends	
Wt per 100 Ft	148 lb	
Breaking Strength	588,900 lb (reference 1)	
Working Load Limit (WLL)	98,150 lb	

Physical Characteristics

Type	Descriptions		
	Shipping		
Length	3 ft, 4 in		
Width	3 ft, 4 in		
Height	3 ft, 9 in		
Cube	42 cu ft		
Footprint	12 sq ft		
Weight	150 lb		

References

Ref No	Reference
1	Cortland limited Certification of Conformance