

STAINLESS STEEL WIRE

For More Information Contact;
American Rigging Supply, Inc.

MARINE STAINLESS STEEL WIRE

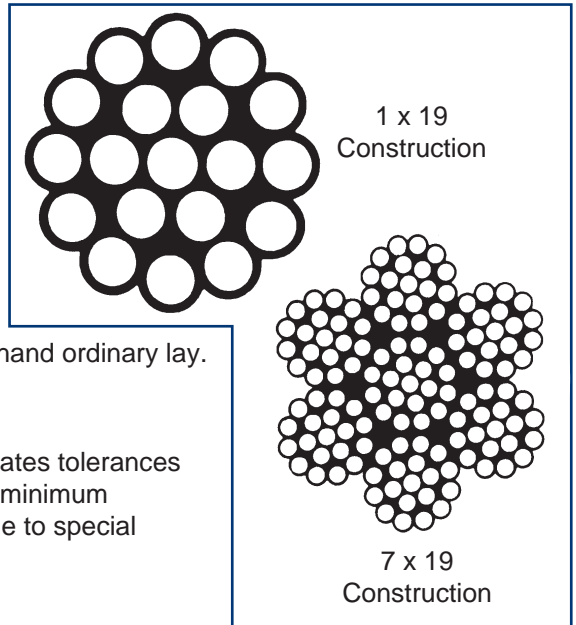
The high tensile steel wire used in strand and rope for yacht standing and running rigging is 316S31 material in the fully austenitic condition to give maximum corrosion resistance.

CONSTRUCTION

All strand and rope is of balanced design and will unlay and relay easily. 1 x 19 strands have a left hand lay finish to make for easier assembly of Norseman Swageless Terminals. 7 x 19 ropes are right hand ordinary lay.

SIZE AND STRENGTH

The dimensions and tensile grades conform to BS MA 29 which stipulates tolerances on nominal diameter and minimum tensile strength for wire sizes and minimum breaking force for strands and ropes. Sizes above 28mm are available to special order.



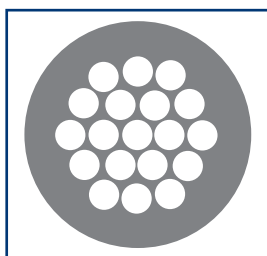
STANDING RIGGING 1 x 19							RUNNING RIGGING 7 x 19				
NOMINAL DIAMETER (mm) (in)	PART NO.	MINIMUM BREAKING LOAD		APPROXIMATE WEIGHT		PART NO.	MINIMUM BREAKING LOAD		APPROXIMATE WEIGHT		
		(kg)	(lb)	(kg/100m)	(lb/100ft)		(kg)	(lb)	(kg/100m)	(kg/100ft)	
2	S19-020	320	704	1.95	1.31	R19-020	226	499	1.53	1.03	
2.5	S91-025	500	1100	3.05	2.05	R19-025	355	782	2.38	1.60	
3	S19-030	720	1584	4.49	2.95	R19-030	510	1122	3.34	2.24	
4	5/32 S19-040	1280	2816	7.81	5.25	R19-040	907	2134	5.94	3.99	
	3/16 S19-047	1800	3960	10.60	7.12	R19-047	1285	2827	8.41	5.65	
5	S19-050	2000	4400	12.20	8.20	R19-050	1420	3124	9.29	6.24	
	7/32 S19-055	2470	5295	15.10	10.10	R19-055	1753	3857	11.50	7.73	
6	S19-060	2880	6336	17.60	11.80	R19-060	2040	4488	13.40	9.00	
	1/4 S19-063	3220	7084	19.40	13.00	R19-063	2287	5031	15.00	10.10	
7	9/32 S19-070	3550	7810	23.90	16.10	R19-070	2780	6116	18.20	12.20	
8	5/16 S19-080	4640	10208	31.20	20.90	R19-080	3630	7986	23.80	16.00	
	3/8 S19-095	6580	14476	43.20	29.00	R19-095	5150	11330	33.70	22.60	
10	S19-100	7250	15950	48.80	32.80	R19-100	5670	12474	37.20	25.00	
	7/16 S19-110	8770	19294	59.10	39.70						
12	S19-120	10400	22880	70.30	47.20	R19-120	8160	17952	53.50	35.90	
	1/2 S19-127	11650	25630	79.30	53.30	R19-127	9147	20123	59.90	40.20	
14	9/16 S19-140	14180	31196	95.70	64.30	R19-140	11100	24420	72.80	48.90	
16	5/8 S19-160	18560	40832	125.00	84.00	R19-160	13600	29988	99.00	66.53	
19	3/4 S19-190	21620	47564	176.00	118.00						
*22	7/8 S19-220	29070	63954	236.00	158.00						
*26	1 S19-260	40600	89320	330.00	222.00						
*28	1 1/8 S37-280	52600	115720	383.00	257.38						
*30	1 3/16 S37-300	58800	129654	443.00	297.70	1 x 37					
*32	1 1/4 S37-320	62800	138474	500.00	336.00						

* Generally supplied not polished

Note: Cable breaking loads are shown British style and are MINIMUM breaking loads. American practice is to quote NOMINAL breaking load, which is subject to a 2 1/2 % underload tolerance, which consequently makes American break loads seem higher.

STAINLESS STEEL GUARDRAIL WIRE

Norseman guard rail wire is selected extensively for its high strength and resistance to wear. Constructed from 1 x 19 Stainless Steel, a hard coating of white PVC is applied to protect crew from abrasion.



Guardrail wire is complemented by a comprehensive selection of securing fittings to complete your system, detailed on page 23.

1 x 19 stainless steel strand covered with hard white PVC	PART NO. P19-040-6mm P19-050-7mm P19-050-9mm	NOMINAL DIAMETER 4mm Covered 6mm 5mm Covered 7mm 5mm Covered 9mm
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THE HIGH-TECH LOW STRETCH WIRE RIGGING FOR YACHTS & DINGHIES

DYFORM is the high performance wire strand which has a higher modulus of elasticity, offering the user less stretch and greater strength when compared with conventional wire of similar size.

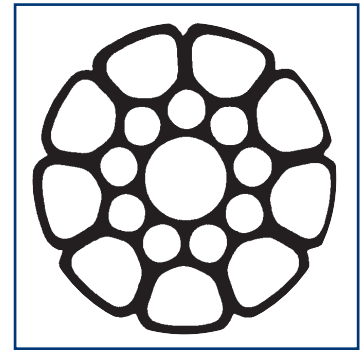
Developed by Bridon Plc., the world's leading rope maker, it is backed by years of technical know-how and the famous Norseman name. This wire strand has always been in great demand and is an essential performance requirement on many racing craft and cruising yachts seeking higher performance and greater margins of safety.

The cross section shows how the unique DYFORM process creates specially shaped wires which fill a greater proportion of the strand cross section. This means a high breaking load and more resistance to stretch (a higher modulus of elasticity).

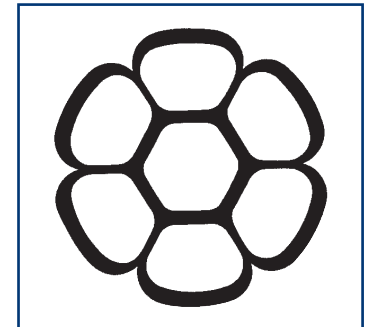
With just a 7 wire construction this version has virtually no constructional stretch and very low elastic stretch. Comparison between a 3mm diameter 1 x 7 DYFORM and 3mm diameter 1 x 19 conventional strand with equivalent tensile loads, shows a difference in apparent elastic modulus:-

3mm 1 x 7 wire DYFORM	14.01 x 10 ³ KGmm ²
3mm 1 x 19 conventional	10.96 x 10 ³ KGmm ²

MANY KEELBOAT CLASSES USE DYFORM YACHT WIRE INCLUDING:
J24, HUNTER 707, MELGES 24, ETHELLS, CONTESSA 32,
49er, TORNADO, INT. 14, 505.



DYFORM 1 x 19 for Yachts



DYFORM 1 x 7 for Dinghies

DYFORM FEATURES

- * More than 30% increase in breaking strength.
- * Approved for use with conventional type swage and swageless fittings.
- * The ideal low stretch rigging for restricted design yachts which only permit 1 x 19 rigging.
- * Provides the corrosion resistance of marine grade 316S31 stainless steel.
- * Smoother surface gives lower aerodynamic drag.

DYFORM dinghy rigging is suitable for use with Swage type terminals. Talurit secured type terminations are not recommended.

DYFORM & CONVENTIONAL WIRE COMPARISON								
NOMINAL DIAMETER (mm)	PART NO.	DYFORM 1 X 7				CONVENTIONAL 1 X 19		
		MINIMUM BREAKING LOAD (kg)	MINIMUM BREAKING LOAD (lb)	APPROXIMATE WEIGHT (kg/100m)	APPROXIMATE WEIGHT (lb/100ft)	MINIMUM BREAKING LOAD (kg)	MINIMUM BREAKING LOAD (lb)	
2.5	D07-025	690	1518	3.40	2.28	500	1100	
3	D07-030	1000	2200	4.90	3.28	720	1584	
3.5	D07-035	1350	2970	6.70	4.49			
4	D07-040	1780	3916	8.80	5.91	1280	2816	
		DYFORM 1 X 19				CONVENTIONAL 1 X 19		
		MINIMUM BREAKING LOAD (kg)	MINIMUM BREAKING LOAD (lb)	APPROXIMATE WEIGHT (kg/100m)	APPROXIMATE WEIGHT (lb/100ft)	MINIMUM BREAKING LOAD (kg)	MINIMUM BREAKING LOAD (lb)	
5	D19-050	2440	5368	13.50	9.10	2000	4400	
6	D19-060	3550	7810	19.40	13.00	2880	6336	
7	D19-070	4910	10802	26.00	17.40	3550	7810	
8	D19-080	6150	13530	34.50	23.20	4640	10208	
10	D19-100	9770	21494	54.00	36.30	7250	15950	
12	D19-120	14400	31746	80.70	54.20	10400	22880	
*14	D25-140	19300	42460	115.00	77.30	14180	31196	
*16	D25-160	25600	56320	147.00	98.80	18560	40832	
#19	D31-190	32000	70400	206.60	138.00	21620	47576	

* 14mm & 16mm Dyform are 1 x 25 Construction
19mm Dyform is 1 x 31 Construction

SOLID ROD

*For More Information Contact;
American Rigging Supply, Inc.*

NITRONIC 50

This high strength, corrosion resistant rod is the industry standard, developed originally by Navtec. It is cold drawn in coil form up to -76 size to the required tensile strength levels.

For special requirements, larger size coils may be ordered. For shipping purposes Coils are 200 x Diameter. The elastic memory is not affected.

In sizes -76 and above, it is generally cold drawn in bar form to develop required tensile strength and is known as "Gamma" rod.

Navtec Nitronic 50 is used by cruising yachts of all sizes including many of the world's outstanding Superyachts. High performance race yachts, including America's Cup contenders and defenders select Navtec Rod.

Many of the fastest ocean catamarans and trimarans are also rigged with Navtec Rod Systems.

SIZE IDENTIFICATION

Solid Rod is quoted in DASH sizing.

This denotes Breaking Strength in 1000's of lbs.

Example:

-10 = 10,000lbs Breaking Strength.

STANDARD NAVTEC ROD SPECIFICATIONS

ROD SIZE	PART NUMBER	NOMINAL DIAMETER		MIN. BREAKING STRENGTH		WEIGHT	
		(in)	(mm)	(lbs)	(kg)	(lbs/ft)	(kg/m)
NITRONIC 50 COIL							
-4	R505-004	0.172	4.37	4700	2140	0.079	0.118
-6	R505-006	0.198	5.03	6300	2860	0.105	0.157
-8	R505-008	0.225	5.72	8200	3730	0.136	0.202
-10	R505-010	0.250	6.35	10300	4680	0.168	0.250
-12	R505-012	0.281	7.14	12500	5680	0.212	0.316
-15	R505-015	0.296	7.52	14250	6480	0.235	0.350
-17	R505-017	0.330	8.38	17500	7950	0.293	0.435
-22	R505-022	0.375	9.53	22500	10200	0.379	0.562
-30	R505-030	0.437	11.10	30000	13600	0.513	0.764
-40	R505-040	0.500	12.70	38000	17300	0.672	1.000
-48	R505-048	0.562	14.27	48000	21800	0.848	1.263
-60	R505-060	0.660	16.76	60000	27300	1.170	1.742
-76	R508-076	0.705	17.91	76000	34500	1.335	1.987
NITRONIC 50 BAR (GAMMA)							
-76	R508-P-076	0.705	17.91	76000	34500	1.335	1.987
-91	R508-P-091	0.768	19.51	90000	40900	1.584	2.36
-115	R508-P-115	0.875	22.23	115000	52300	2.06	3.06
-150	R508-P-150	1.000	25.40	150000	68200	2.69	4.00
-170	R508-P-170	1.066	27.08	170000	77300	3.05	4.54
-195	R508-P-195	1.125	28.58	190000	86400	3.40	5.06
-220	R508-P-220	1.191	30.25	217000	98600	3.81	5.67
-260	R508-P-260	1.313	33.35	260000	118000	4.63	6.89
-320	R508-P-320	1.500	38.10	320000	145000	6.04	9.00
-400	R508-P-400	1.750	44.45	400000	182000	8.23	12.25

1. Rod sizes up to -76 are available in coil form or straightened in any length.
2. Rod sizes -76 and up are available in lengths up to 36 feet.
3. Large sizes, especially -115 and above may be in stock in higher strengths than listed. Contact Navtec for details.