

NORSEMAN SWAGELESS TERMINALS

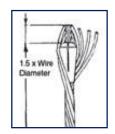


Norseman terminals provide a fast, secure, corrosion-resistant end fitting on all types of wire rigging and are an ideal replacement part. They can be installed quickly and easily at sea, making them ideal for emergency repairs. Norseman terminals also can be re-used, but please note: A new cone must be installed.

SWAGELESS FITTING METHOD

No special tools required. Slip the body of the terminal over the diameter of the cable. Unlay outer wires and fit the cone over the center core. Relay the outer wires into the head of the fitting. Draw the body up to the head and screw together.







			Swage	eless Cones		
PART N	UMBER		SIZE		COLOR	
METRIC	IMPERIAL	mm	in	1X19	7 Strand	Dyform
NCC-M025	NCC-03	2.5	3/32	BLUE	YELLOW	-
NCC-M03	NCC-04	3	1/8	NONE	YELLOW	-
NCC-M04	NCC-05	4	5/32	NONE	RED	-
	NCC-06		3/16	GREEN	RED	-
NCC-M05		5		NONE	RED	WHITE
-	NCC-07		7/32	BLUE	YELLOW	-
NCC-M06	-	6		NONE	RED	WHITE
-	NCC-08		1/4	GREEN	YELLOW	WHITE
NCC-M07	NCC-09	7	9/32	NONE	RED	WHITE
NCC-M08	NCC-10	8	5/16	NONE	NONE	WHITE
NCC-M09	-	9		BLUE	YELLOW	-
-	NCC-12		3/8	GREEN	YELLOW	WHITE
NCC-M10	-	10		NONE	NONE	WHITE
NCC-M11	NCC-14	11	7/16	BLUE	YELLOW	WHITE
NOC-M12	-	12		NONE	NONE	WHITE
-	NCC-16		1/2	GREEN	RED	WHITE
NCC-M14	NCC-18	14	9/16	NONE	NONE	WHITE
NCC-M16	NCC-20	16	5/8	NONE	NONE	WHITE
NCC-M19	NCC-24	19	3/4	NONE	NONE	WHITE
NOC-M22	NCC-28	22	7/8	NONE	NONE	-
NCC-M26	NCC-32	26	1	NONE	NONE	-
NCC-M28		28	1 1/8	NONE	-	-
NCC-M30		30	1 3/16	NONE	-	-
NCC-M32		32	1 1/4	NONE	-	-
	P.	ART NUI	MBER	WIRE CONSTRUCTION	N	
		NCO		1x19		
		NCS	-	7 Strand		
		5.1-20.20		W 4		







*Note: This style 7mm and above.

N010 Swageless Eye

Made from high-quality 316 Stainless Steel for 1X19, 7 Strand or Dyform wire.



Swage	less E	yes
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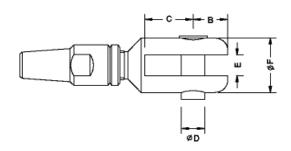
SMISHC	g ampenar	<u>1 w</u>	105 CAS		в		C	5.1	187		£		<u>+</u>
1 X 19	1 x 19	ma	is	80000	in	88m	is.	986686	in	88m	in	#RRMT	in
Not 0-M02506	N010-0306	2.5	3/32	7	0.276	11	0.433	4.7	0.185	5.5	0.217	13	0.512
Not 0-M02508	N010-0308	2.5	3/32	7	0.276	11	0.433	6.5	0.256	5.5	0.217	13	0.512
Not 0-M0308	M010-0409	3	1/9	7	0.276	11	0.433	6.5	0.256	6.6	0.217	13	0.512
Not 0-M0410	N010-0510	4	5/32	9.2	0.323	11	0.433	8.1	0.319	6.7	0.294	16	0.530
	N010-0610		344	10	0.394	1.6	0.630	9.1	0.319	8	0.315	16	0.630
-	No10-0612	-	344	10	0.394	18	0.708	9.7	0.392	8	0.315	19	0.748
Not 0-M0510	-	5		10	0.394	1.5	0.630	9.1	0.319	9	0.315	1.5	0.630
Not 0-M0512		5	-	10	0.394	18	0.709	9.7	0.392	9	0.315	15	0.630
-	No10-0712	-	7/32	11	0.433	1.7	0.668	9.7	0.392	9	0.354	22	0.854
	N010-0714	-	7/32	12.5	0.492	19.5	0.768	11.3	0.445	9.6	0.374	23	0.906
	No10-0716	-	7/52	15	0.591	2.2	0.866	13	0.51.2	9.5	0.374	26	1.624
N010-M0612	-	- G	-	11	0.433	17	0.669	9.7	0.382	9	0.354	2.2	0.854
N010-M0614	-	- G		12.5	0.492	19	0.748	11.3	0.445	9.5	0.374	23	0.906
N010-M0616	-	ť	-	13.5	0.531	23.5	0.925	13	0.51.2	9.5	0.374	26	1.024
	M010-0812		1/4	11	0.433	17	0.669	9.7	0.382	9	0.364	22	0.854
	No10-0914	-	1/4	12.5	0.492	19.5	0.768	11.3	0.445	9.5	0.374	23	0.906
-	N010-0910	-	1/4	16	0.591	19.5	0.768	13	0.512	9.5	0.374	26	1.024
No10440716	No10-0910	7	9/32	13.5	0.531	23.5	0.925	13	0.512	;;	0.433	27	1.063
Not 0440816	No10-1016	8	5/14	16	0.591	24	0.945	13	0.512	12.5	0.492	27	1.063
Not 0440820	No10-1020	8	5/16	19	0.708	28	1.102	10	0.630	12.5	0.492	33	1,299
	N010-1220	-	3/8	19	0.709	28	1.102	10	0.630	13.5	0.531	34	1.340
Not 04M1020	-	10	-	18	0.709	28	1.102	16	0.630	13.5	0.531	34	1.340
N010-M1124	N010-1424	11	7/16	21	0.827	3.0	1.536	19.2	0.756	18	0.709	40	1,575
Not 0-M1128	No10-1428	11	7/16	25	0.984	39	1.536	22.5	0.886	18	0.709	47.5	1.870
Not 0-841224		12		21	0.627	39	1.535	19.2	0.756	18	0.709	40	1.576
Not 0-M1228		12	-	25	0.984	41	1.614	22.5	0.836	1B	0.709	47.5	1.870
	No10-1624		122	21	0.627	39	1.535	19.2	0.756	18	0.709	40	1.576
	N010-1628	-	1/2	.26	0.984	39	1.535	22.5	0.896	18	0.709	47.5	1.870
Not 0441429	N010-1928	14	9444	.26	0.984	41	1,614	22.5	0.896	21	0.827	47.5	1.870
Not 0441032	No10-2032	10	5/8	27.5	1.083	44	1.732	26.7	1.012	24	0.945	64	2,120
Not 0441936	No10-2430	19	3/4	30	1.181	50	1.969	29	1.142	25.7	1.012	64	2,520
Not 0-741840	N010-2440	19	3/4	30	1.181	50	1.969	- 32	1,260	25.7	1.012	64	2,529
Not 0-M2240	N010-2840	-22	7/9	38	1.495	55	2.165	32	1,260	29.6	1.126	70.5	2.770
N010-842642	N010-3242	26		42	1.654	61	2,402	33.3	1.311	31.3	1,232	75	2.950
Not 0-M2844	No10-8244	26	1	42	1.654	61	2.402	36.6	1.398	31.3	1.232	75	2.950
Not 0-M2844	No10-3644	28	1 1/8	42	1.654	61	2.462	36.6	1.398	31.3	1.232	76	2.060
Not 0-842848	No10-3548	28	1 1/8	46	1.772	75	2.953	33.1	1.500	34.86	1.372	90	3,543

PART NUMBER	WIRE CONSTRUCTION
No16	1x19
Not 1	7 Strend
Not2	Dyform

N020 Swageless Fork

Made from high-quality 316 Stainless Steel for 1X19, 7 Strand or Dyform wire.





				Sw	agele	ess Fo	orks						
Metric	Imperial	Wit	re Dia		3	(;		Ď		<u>.</u>	F	-
1 x 19	1 x 19	mm l	in	mm	in	mm	in	mm	In	mm	in	mm	In
N020-M02509	N020-0309	2.5	9/92	8.00	0.31	18.00	0.51	6.30	0.26	6.30	0.26	14.00	0.56
N0204M0308	N020-0408	3	1/8	8.00	0.31	13.00	0.51	6.30	0.25	6.90	0.25	14.00	0.55
N020-M0410	N020-0510	4	6/82	10.00	0.39	16.00	0.63	7.90	0.31	7.90	0.91	19.00	0.76
	N020-0610	- 1	3/16	10.00	0.39	16.00	0.63	7.90	0.91	7.90	0.31	19.00	0.75
	N020-0612	- 0	3/16	12.00	0.47	19.00	0.75	9.50	0.37	9.50	0.37	22.00	0.87
N020-M0510		- 6	*	10.00	0.39	16.00	0.68	7.90	0.91	7.90	0.91	19.00	0.76
N020-M0512		5	-	12.00	0.47	19.00	0.75	9.50	0.37	9.50	0.97	22.00	0.87
	N020-0712	- 0	7/32	12.00	0.47	19.00	0.76	9.60	0.37	9.60	0.37	22.00	0.97
******************************	N020-0714	- 1	7/92	14.00	0.55	22.00	0.87	11.10	0.44	11.10	0.44	28.50	1.12
N020-M0612		6	-	12.00	0.47	19.00	0.75	9.50	0.37	9.50	0.97	22.00	0.87
N020-M0614		6	_	14.00	0.55	22.00	0.87	11.10	0.44	11.10	0.44	28.50	1.12
N020-M0616		6	_	16.00	0.63	25.50	1.00	12.70	0.50	12.70	0.50	31.50	1.24
	N020-0812	- 0	1.44	12.00	0.47	19.00	0.76	9.60	0.37	9.60	0.97	22.00	0.97
	N020-0814	- 1	1,/4	14.00	0.55	22.00	0.87	11.10	0.44	11.10	0.44	28.50	1.12
	No20-0816	- 8	1/4	16.00	0.63	25.50	1.00	12.70	0.50	12.70	0.50	31.50	1.24
N020-M0716	N020-0916	7	9/32	16.00	0.63	26.50	1.00	12.70	0.50	12.70	0.50	31.50	1.24
N020-M0816	N020-1016	8	5/16	16.00	0.69	25.50	1.00	12.70	0.50	12.70	0.50	31.50	1.24
N020-M0920	N020-1020	В	6/16	20.00	0.79	92.00	1.26	15.90	0.62	15.90	0.62	38.00	1.50
******************************	N020-1220	- 1	9/8	20.00	0.79	32.00	1.26	15.80	0.62	15.80	0.62	3B.00	1.50
N020-M1020		10	-	20.00	0.79	32.00	1.26	15.80	0.62	15.80	0.62	3B.00	1.50
N020-M1124	N020-1424	11	7/16	24.00	0.94	39.00	1.50	19.00	0.76	19.00	0.75	47.50	1.97
N020-M1224		12	_	24.00	0.94	3B.00	1.50	19.00	0.75	19.00	0.75	47.50	1.87
N020-M1229		12	-	29.00	1.10	44.50	1.76	22.00	0.97	22.00	0.97	54.00	2.13
	N020-1624	- 1	1/2	24.00	0.94	3B.00	1.50	19.00	0.75	19.00	0.75	47.50	1.87
	N020-1628	- 0	1/2	28.00	1.10	44.50	1.75	22.00	0.87	22.00	0.87	54.00	2.13
N020-M1428	N020-1929	14	9/16	29.00	1.10	44.50	1.76	22.20	0.97	22.20	0.97	54.00	2.13
N020-M1692	N020-2032	16	5/8	32.00	1.26	51.00	2.01	25.40	1.00	25.40	1.00	63.50	2.50
N020-M1936	N020-2436	19	2.4	98.00	1.42	57.00	2.24	29.50	1.12	29.60	1.12	70.00	2.76
N0204M2240	N020-2840	22	7/8	40.00	1.57	69.50	2.50	91.70	1.25	31.70	1.25	76.00	2.99
N020-M2644	N020-9244	26	1	44.00	1.79	70.00	2.78	35.00	1.38	35.00	1.98	82.50	3.25

PART NUMBER	WIRE CONSTRUCTION
N020	1x19
N021	7 Strand
N022	Dyform

N030 Swageless Stud & Swageless Long Stud

Made from high-quality 316 Stainless Steel for 1X19, 7 Strand or Dyform wire. UNF threads.



Swageless :	Studs
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Metric	Imperial	WIE	REØ	THREAD Ø		В	C (Lon	g Stud)
1 x 19	1 x 19	mm	in	UNF	mm	in	mm	in
N030-M02508	N030-0308	2.5	3/32	1/4	57	2.24	-	
N030-M0308	N030-0408	3	1/8	1/4	57	2.24		
N030-M0410	N030-0510	4	5/32	5/16	48	1.89		
w	N030-0610		3/16	5/16	48	1.89	100	3.94
w	N030-0612		3/16	3/8	65	2.56	115	4.53
N030-M0510		5	w	5/16	48	1.89	100	3.94
N030-M0512	2	5		3/8	65	2.56	115	4.53
а	N030-0712		7/32	3/8	65	2.56	120	4.72
а	N030-0714		7/32	7/16	75	2.95	135	5.31
м	N030-0716		7/32	1/2	83	3.27	145	5.71
N030-M0612		6		3/8	65	2.56	120	4.72
N030-M0614		6		7/16	75	2.95	135	5.31
N030-M0616		6		1/2	83	3.27	145	5.71
w	N030-0812	-	1/4	3/8	65	2.56	130	5.12
w	N030-0814		1/4	7/16	75	2.95	135	5.31
w	N030-0816		1/4	1/2	83	3.27	145	5.71
N030-M0716	N030-0916	7	9/32	1/2	83	3.27	145	5.71
N030-M0816	N030-1016	8	5/16	1/2	83	3.27	155	6.10
N030-M0820	N030-1020	8	5/16	5/8	98	3.86	170	6.69
а	N030-1220		3/8	5/8	98	3.86	180	7.09
N030-M1020	a a	10		5/8	98	3.86	180	7.09
N030-M1124	N030-1424	11	7/16	3/4	115	4.53	285	11.22
N030-M1128	N030-1428	11	7/16	7/8	138	5.43	308	12.13
N030-M1224		12		3/4	115	4.53	285	11.22
N030-M1228		12		7/8	138	5.43	308	12.13
w	N030-1624		1/2	3/4	115	4.53	285	11.22
w	N030-1628	-	1/2	7/8	138	5.43	308	12.13
N030-M1428	N030-1828	14	9/16	7/8	138	5.43		
N030-M1632	N030-2032	16	5/8	1	155	6.10		
N030-M1936	N030-2436	19	3/4	1 1/8	180	7.09		
N030-M2240	N030-2840	22	7/8	1 1/4	200	7.87		
N030-M2644	N030-3244	26	1	1 3/8	219	8.62	-	
N030-M2848	N030-3648	28	1 1/8	1 1/2	230	9.06		v

PART NUMBER	LONG VERSION	WIRE CONSTRUCTION
N030	Nogol.	1x19
N031	N031L	7 Strand
N032	N032L	Dyform

For LEFT HAND thread, add "LH" to the Part Number, i.e. N030-0816LH

N060 Swageless Stemball

Made from high-quality 316 Stainless Steel for 1X19, 7 Strand or Dyform wire.



	Swageless Stemballs													
Metric	Imperial 1 x 19	WIREØ		e	ØS		Н	Cup	No.	Øw				
1 x 19		mm	in	mm	in	mm	in	Metric	Imperial	mm	in			
N060-M03	N060-04	3	1/8	7.5	0.30	16.7	0.66	N640-M04	N640-04	26.5	1.04			
N060-M04	N060-05	4	5/32	7.5	0.30	16.7	0.66	N640-M04	N640-04	26.5	1.04			
	N060-06		3/16	9.1	0.36	18.8	0.74	N640-M05	N640-06	26.5	1.04			
N060-M05	-	5	-	9.1	0.36	18.8	0.74	N640-M05	N640-06	26.5	1.04			
	N060-07		7/32	12.5	0.49	20	0.80	N640-M07	N640-08	26.5	1.04			
N060-M06		6		12.5	0.49	20	0.80	N640-M07	N640-08	26.5	1.04			
	N060-08	-	1/4	12.5	0.49	20	0.80	N640-M07	N640-08	26.5	1.04			
N060-M07	N060-09	7	9/32	14.3	0.56	22	0.87	N640-M07	N640-08	26.5	1.04			
N060-M08	N060-10	8	5/16	16.1	0.63	28	1.10	N640-M12	N640-10	34	1.34			
	N060-12		3/8	17.8	0.70	28	1.10	N640-M12	N640-10	34	1.34			
N060-M10		10		17.8	0.70	28	1.10	N640-M12	N640-10	34	1.34			

PART NUMBER
 WIRE CONSTRUCTION

 N060
 1x19

 N061
 7 Strand

 N062
 Dyferm

N070 Swageless T

Made from high-quality 316 Stainless Steel for 1x19, 7 Strand or Dyform wire.



					Swagel	ess T							
WIF	EØ		METRIC			IMPERIAL		HEAD H	EIGHT	HEAD	WIDTH	GRIP D	EPTH
mm	in	SWAGELESS PART NO.	BACKING PLATE	RETAINING PLUG	SWAGELESS PART NO.	BACKING PLATE	RETAINING PLUG	mm	in	mm	in	mm	in
2.5	3/32	N070-M025	N740-M03	N742-M03	N070-03	N740-03	N742-03	6.3	0.25	15.5	0.61	6.0	0.24
3	1/8	N070-M03	N740-M03	N742-M03	N070-04	N740-03	N742-03	6.3	0.25	16.6	0.65	6.0	0.24
4	5/32	N070-M04	N740-M04	N742-M04	N070-05	N740-05	N742-05	9.0	0.35	17.5	0.69	6.4	0.25
-	3/16			-	N070-06	N740-06	N742-06	11.1	0.44	20.0	0.79	8.0	0.31
5	-	N070-M05	N740-M05	N742-M05	-	-	-	11.1	0.44	20.0	0.79	8.0	0.31
-	7/32		-	-	N070-07	N740-07	N742-07	14.3	0.56	28.0	1.10	8.3	0.32
6		N070-M06	N740-M07	N742-M07	-	-	-	14.3	0.56	28.0	1.10	8.3	0.32
-	1/4	-		-	N070-08	N740-07	N742-07	14.3	0.56	28.0	1.10	8.3	0.32
7	9/32	N070-M07	N740-M07	N742-M07	N070-09	N740-07	N742-07	14.3	0.56	28.0	1.10	8.3	0.32
8	5/16	N070-M08	N740-M10	N742-M10	N070-10	N740-10	N742-10	17.8	0.70	32.0	1.26	12.0	0.47
-	3/8	-			N070-12	N740-10	N742-10	17.8	0.70	32.0	1.26	12.0	0.47
10	-	N070-M10	N740-M10	N742-M10	-	-	-	17.8	0.70	32.0	1.26	12.0	0.47
Corbon	leine piet	lo info eno pego 1	4. Crin dooth in t	monoured from th	o booring cudoco	o to the bond		A					

For backing plate info, see page 14. Grip depth is measured from the bearing surfaces to the bend.

N080 Swageless Shroud Terminal

Made from high-quality 316 Stainless Steel for 1x19, 7 Strand or Dyform wire.



WIE	REØ		METRIC			IMPERIAL	HEAD HEIGHT		HEAD WIDTH		
mm	in	SWAGELESS PART NO.	BACKING PLATE	RETAINING PLUG	SWAGELESS PART NO.	BACKING PLATE	RETAINING PLUG	mm	in	mm	in
w	7/32	-	-	-	N080-07	N840-07	№842-07	10.8	0.425	23.2	0.91
6	-	N080-M06	N840-M06	N842-M06	-	-	-	12.5	0.492	22.5	0.88
-	1/4	-	-	-	N080-08	N840-07	N842-07	12.5	0.492	22.9	0.90
7	9/32	N080-M07	N840-M07	N842-M08	N080-09	N840-09	N842-09	14.3	0.563	28.7	1.13
8	5/16	N080-M08	№840-M08	N842-M08	N080-10	N840-10	N842-09	16.0	0.630	29.0	1.14
9		N080-M09	№840-M10	N842-M10				17.8	0.701	30.0	1.18
×	3/8	*			N080-12	N840-12	N842-12	17.8	0.701	32.5	1.28
10	-	N080-M10	N840-M10	N842-M10	-	-	-	17.8	0.701	32.5	1.28
11	7/16	w	w		N080-14	N840-14	N842-14	19.8	0.780	39.0	1.53
12		N080-M12	N840-M12	№842-M12				21.4	0.843	39.0	1.53
-	1/2	-	-	-	N080-16	N840-14	N842-14	21.4	0.843	39.0	1.53

^{1.} The threaded Stemball needs to be locked tight to the thread adapter prior to or after installation on mast.

^{2.} The washer can be removed if not needed.

WIRE SWAGE TERMINALS



Our swage terminals are crafted from premium 316 Stainless Steel for maximum corrosion resistance and are used to terminate 1x19 Stainless Steel wire, flexible wire rope, and Dyform wire. Navtec swage terminals are available in many sizes to answer practically any problem.

Reference Table For Swage Dimensions

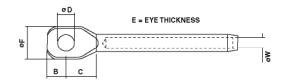
Detailed below is a table of BEFORE and AFTER swage dimensions. This is an essential reference point to ensure that the correct dies have been used and that the swage has been completed successfully.

WIR	E DIA	DIA. BEFOR	RESWAGING	DIA. AFTER	R SWAGING	SWAGE	HOLE DIA	DRILL	DEPTH
in	mm	in	mm	₹n	क्ता	in	asea	ìn	mm
3/32	2.50	0.218-0.213	5.54-5.41	0.190-0.185	4.83-4.70	0.114-0.109	2.90-2.77	1.261	32.03
	3.00	0.250-0.245	6.35-6.22	0.219-0.214	5.56-5.44	0.137-0.132	3.48-3.35	1.511	38.38
1/B		0.250-0.245	6.35-6.22	0.219-0.214	5.56-5.44	0.148-0.141	3.71-3.58	1.511	38.38
5/32	4.00	0.297-0.292	7.54-7.42	0.250-0.245	6.35-6.22	0.177-0.172	4.50-4.37	1.761	44.73
3718		0.359354	9.12-8.99	0.313-0.308	7.95-7.82	0.208-0.203	5.28-5.16	2.011	51.0B
	5.00	0.359354	9.12-8.99	0.313-0.308	7.95-7.82	0.215-0.210	5.48-5.33	2.011	51.0B
7/32		0.427-0.422	10.85-10.72	0.375-0.368	9.53-9.35	0.239-0.234	6.07-5.94	2.261	57.49
	8.00	0.494-0.489	12.55-12.42	0.439-0.431	11.13-10.95	0.257-0.252	6.53-6.40	2.511	63.7B
1/4		0.494-0.489	12.55-12.42	0.438-0.431	11.13-10.95	0.270-0.265	6.86-6.73	2.511	63.7B
9/32	7.00	0.563558	14,30-14,17	0.500-0.492	12.79-12.50	0.302-0.297	7.67-7.54	2.761	70.13
5/16	8.00	0.635-0.630	16.13-16.00	0.563-0.554	14.30-14.07	0.333-0.328	8.46-8.33	3.011	76.48
	9.00	0.703-0.698	17.86-17.73	0.625-0.618	15.88-15.70	0.377-0.370	9.58-9.40	3.511	89.18
3/8		0.703-0.698	17.86-17.73	0.625-0.618	15.88-15.70	0.398-0.390	10.11-9.91	3.511	89.18
	10.00	0.703-0.698	17.86-17.73	0.625-0.618	15.88-15.70	0.418-0.413	10.62-10.49	3.511	89.18
7/16	11.00	0.781-0.776	19.84-19.71	0.688.0-6880.0	17.48-17.27	0.476-0.468	12.09-11.89	4.011	101.88
	12.00	0.844-0.839	21.44-21.31	0.750-0.741	19.05-18.92	0.508-0.500	12.90-12.70	4.698	119.33
1/2		0.844-0.839	21.44-21.31	0.750-0.741	19.05-18.82	0.540-0.531	13.72-13.49	4.898	119.33
9/16	14.00	0.984-0.979	24.99-24.87	0.875-0.866	22.23-22.00	0.603-0.594	15.32-15.09	5.011	127.28
5/8	16.00	1.109-1.104	28.17-28.04	1.000-0.990	25.40-25.15	0.666-0.656	16.92-16.66	5.511	139.98
3/4	19.00	1.359-1.354	34.52-34.39	1.250-1.238	31.75-31.45	0.793-0.781	20.14-19.84	8.511	165.38
7/8	22.00	1.593-1.563	40.46-40.21	1.437-1.425	36.50-36.20	0.933-0.921	23.70-23.39	7.166	182.02
1	28.00	1.812-1.802	48.02-45.77	1.625-1.613	41.28-40.97	1.058-1.046	28.87-26.57	8.229	209.02

N546 Swage Eye

316 Stainless Steel traditional wire end terminal.



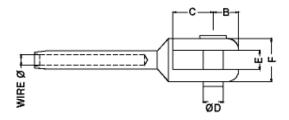


						Swage	Eyes						
Part Nu	mber	Wi	re Dia		В		c	D	Dia		E	F	Dia
Metric	Imperial	នានា 🖁	is	mm	in	mm	in in	ണണ	ln in	mm	l in	mm	in
N546-M02508	N546-0308	2.5	3/32	6.5	0.256	11.5	0.453	6.5	0.256	5.5	0.217	13	0.512
N546-M030B	-	3	-	7	0.276	11	0.433	6.5	0.256	5.6	0.217	13	0.512
-	N546-0408	- 1	1/8	7	0.276	11	0.433	6.5	0.256	5.5	0.217	13	0.512
N546-M0410	N546-0510	4	5/32	8.2	0.323	13	0.512	B.1	0.319	6.7	0.264	16	0.630
-	N546-0612	- 9	3/16	10	0.394	18	0.709	9.7	0.382	8	0.315	19	0.748
N546-M0512	-	45	-	10	0.394	18	0.709	9.7	0.382	8	0.315	19	0.748
	N546-0714		7/32	12.5	0.492	19.5	0.768	11.3	0.445	9.5	0.374	23	0.90
N546-M0614	-	6	-	12.5	0.492	19.5	0.768	11.3	0.445	9.5	0.374	23	0.90
-	N546-0B12	-	1/4	12.5	0.492	19.5	0.768	9.7	0.382	9.5	0.374	23	0.90
-	N546-0B14	-	1/4	12.5	0.492	19.5	0.768	11.3	0.445	9.5	0.374	23	0.90
_	N546-0816	- 1	1/4	15	0.591	22.5	0.886	H3	0.512	9.5	0.374	26	1.02
N546-M0716	N546-0916	7 8	9/32	14.5	0.571	22.5	0.886	13	0.512	10.8	0.425	27	1.06
N546-M0816	N546-1016	8	5/16	16	0.630	23	0.906	13	0.512	12.5	0.492	27	1.06
N546-M0820	N546-1020	8	5/16	18	0.709	25	0.984	16.2	863.0	12.5	0.492	33	1.29
-	N546-1216	-	3/8	18	0.709	28	1.102	13	0.512	13.5	0.531	33	1.29
-	N546-1220	-	3/8	18	0.709	28	1.102	16.25	0.640	13.5	0.531	33	1.29
N546-M1020	-	10	-	18	0.709	28	1.102	16.25	0.640	13.5	0.531	33	1.29
N546-M1124	N546-1424	11 8	7/16	21	0.827	39	1.535	19.25	0.758	18	0.709	40	1.57
N546-M1224	-	12	-	21	0.827	39	1.535	19.25	0.758	18	0.709	40	1.57
N546-M1228	-	12	-	25	0.984	41	1.614	22.5	0.886	18	0.709	47.5	1.87
-	N546-1624	-	1/2	21	0.827	39	1.535	19.25	0.758	18	0.709	40	1.57
-	N546-1628	-	1/2	26	0.984	41	1.814	22.5	0.996	18	0.709	47.5	1.87
N546-M1428	N546-1828	14	9/16	25	0.984	41	1.814	22.5	0.996	21	0.827	47.5	1.87
N546-M1632	N546-2032	16	5/8	27.5	1.083	44.5	1.752	25.75	1.014	24	0.945	54	2.12
N546-M1936	N546-2436	19	3/4	30	1.181	50	1.969	39	1.535	25.7	1.012	57	2.24
N546-M2240	N546-2840	22	7/8	38	1.496	55	2.165	32	1.260	33	1.299	63	2.48
N546-M2640	N546-3240	26	1	42	1.654	61.5	2.421	32	1.260	31.3	1.232	69	2.71
N546-M2844	N546-3244	26	1	42	1.654	64	2.520	35	1.378	31.3	1.232	69	2.71
N546-M2848	N546-3648	28	1 1/8	45	1.772	75	2.953	38.25	1.506	34	1.339	90	3.54

N547 Swage Fork

316 Stainless Steel traditional fork end terminal.



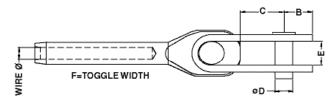


										m			
					Swage	Forks							
Part Nu	mber	Wire Dian	neter (W)		В		С	Ø	D		E	-	= -
Metric	Imperial	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
N547-M02508	N547-0308	2.5	3/32	8.0	0.315	13.0	0.512	6.3	0.248	6.3	0.248	14.0	0.551
N547-M0308	-	3	-	8.0	0.315	13.0	0.512	6.3	0.248	6.3	0.248	14.0	0.551
	N547-0408	-	1/8	8.0	0.315	13.0	0.512	6.3	0.248	6.3	0.248	14.0	0.551
N547-M0410	N547-0510	4	5/32	10.0	0.394	16.0	0.630	7.9	0.311	7.9	0.311	19.0	0.748
-	N547-0612	-	3/16	12.0	0.472	19.0	0.748	9.5	0.374	9.5	0.374	22.0	0.866
N547-M0512	-	5	-	12.0	0.472	19.0	0.748	9.5	0.374	9.5	0.374	22.0	0.866
	N547-0714	-	7/32	14.0	0.551	22.0	0.866	400	0.437	11.1	0.437	28.5	1.122
N547-M0612	-	6	-	12.0	0.472	19.0	0.748	9.5	0.374	9.5	0.374	22.0	0.866
-	N547-0814	-	1/4	14.0	0.551	22.0	0.866	11.1	0.437	11.1	0.437	28.5	1.122
N547-M0716	N547-0916	7	9/32	16.0	0.630	25.5	1.004	12.7	0.500	12.7	0.500	31.5	1.240
N547-M0816	N547-1016	8	5/16	16.0	0.630	25.5	1.004	12.7	0.500	12.7	0.500	31.5	1.240
N547-M0820	N547-1020	8	5/16	20.0	0.787	32.0	1.260	15.8	0.622	15.8	0.622	37.8	1.488
-	N547-1220	-	3/8	20.0	0.787	32.0	1.260	15.8	0.622	15.8	0.622	37.8	1.488
N547-M1020	-	10	-	20.0	0.787	32.0	1.260	15.8	0.622	15.8	0.622	37.8	1.488
N547-M1124	N547-1424	11	7/16	24.0	0.945	38.0	1.496	19.0	0.748	19.0	0.748	47.3	1.862
N547-M1224	-	12	-	24.0	0.945	38.0	1.496	19.0	0.748	19.0	0.748	47.3	1.862
-	N547-1624	-	1/2	24.0	0.945	38.0	1.496	19.0	0.748	19.0	0.748	47.3	1.862
N547-M1428	N547-1828	14	9/16	28.0	1.102	44.5	1.752	22.2	0.874	22.2	0.874	54.0	2.126
N547-M1632	N547-2032	16	5/8	32.0	1.260	51.0	2.008	25.4	1.000	25.4	1.000	63.3	2.492
N547-M1936	N547-2436	19	3/4	36.0	1.417	57.0	2.244	28.5	1.122	28.5	1.122	69.6	2.740
N547-M2240	N547-2840	22	7/8	40.0	1.575	63.5	2.500	31.7	1.248	31.7	1.248	76.0	2.992
N547-M2644	N547-3244	26	1 1/8	44.0	1.732	70.0	2.756	35.0	1.378	35.0	1.378	82.5	3.248

N551 Swage Toggle Fork

316 Stainless Steel traditional toggle end terminal.

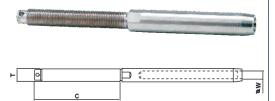




				Sw	age To	oggle	Forks						
PART	NO.	WIR	ΕØ		3		C	C	D		Ē		F
Metric	Imperial	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
-	N551-0308	-	3/32	8.0	0.315	16	0.630	6.3	0.248	7.0	0.276	16.0	0.630
N551-M0308	-	3	-	8.0	0.315	16	0.630	5.3	0.209	7.0	0.276	16.0	0.630
-	N551-0408	-	1/8	8.0	0.315	16	0.630	6.3	0.248	7.0	0.276	16.0	0.630
N551-M0410	N551-0510	4	5/32	10.0	0.394	18	0.709	7.9	0.311	9.0	0.354	20.0	0.787
-	N551-0612	-	3/16	12.0	0.472	20	0.787	9.5	0.374	11.0	0.433	20.0	0.787
N551-M0512	-	5	-	12.0	0.472	20	0.787	9.5	0.374	11.0	0.433	20.0	0.787
-	N551-0714	-	7/32	12.7	0.500	26	1.024	11.1	0.437	14.0	0.551	25.0	0.984
N551-M0614	-	6	-	16.0	0.630	26	1.024	11.1	0.437	14.0	0.551	25.0	0.984
-	N551-0816	-	1/4	20.0	0.787	38	1.496	12.7	0.500	18.0	0.709	30.0	1.181
N551-M0716	N551-0916	7	9/32	20.0	0.787	38	1.496	12.7	0.500	18.0	0.709	30.0	1.181
N551-M0816	N551-1016	8	5/16	20.0	0.787	38	1.496	12.7	0.500	18.0	0.709	30.0	1.181
N551-M0820	N551-1020	8	5/16	20.0	0.787	44	1.732	15.8	0.622	19.0	0.748	40.0	1.575
-	N551-1220	-	3/8	20.0	0.787	44	1.732	15.8	0.622	19.0	0.748	40.0	1.575
N551-M1020	-	10	-	20.0	0.787	44	1.732	15.8	0.622	19.0	0.748	40.0	1.575
N551-M1124	N551-1424	11	7/16	28.0	1.102	52	2.047	19.0	0.748	23.0	0.906	50.0	1.969
N551-M1224	-	12	-	28.0	1.102	52	2.047	19.0	0.748	23.0	0.906	50.0	1.969
-	N551-1624	-	1/2	28.0	1.102	52	2.047	19.0	0.748	23.0	0.906	50.0	1.969
N551-M1428	N551-1828	14	9/16	28.0	1.102	60	2.362	22.2	0.874	25.0	0.984	50.8	2.000
N551-M1632	N551-2032	16	5/8	32.0	1.260	63	2.480	25.4	1.000	28.0	1.102	63.5	2.500
N551-M1936	N551-2436	19	3/4	36.0	1.417	66	2.598	28.0	1.102	31.5	1.240	63.5	2.500
N551-M2240	N551-2840	22	7/8	40.0	1.575	79	3.110	31.8	1.252	34.5	1.358	76.2	3.000
N551-M2644	N551-3244	26	1	43.5	1.713	100	3.937	35.0	1.378	38.0	1.496	76.2	3.000

N555 Swage Stud

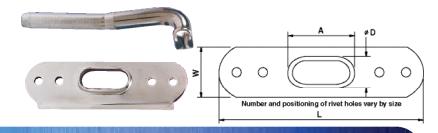
Made from high-quality 316 Stainless Steel with UNF Threads.



-		Swage	Studs			
Part N	umber	Wire Dia	meter (W)	Thread (T)		C
Metric	Imperial	mm	in	UNF	mm	in
N555-M0308	-	3	-	1/4	57	2.24
-	N555-0408	-	1/8	1/4	57	2.24
N555-M0410	N555-0510	4	5/32	5/16	51	2.01
-	N555-0610	-	3/16	5/16	51	2.01
-	N555-0612	-	3/16	3/8	65	2.56
N555-M0510	*	5	-	5/16	51	2.01
N555-M0512	-	5	-	3/8	65	2.56
-	N555-0712	-	7/32	3/8	65	2.56
-	N555-0714	-	7/32	7/16	72	2.84
N555-M0612	-	6	-	3/8	65	2.56
N555-M0614	-	6	-	7/16	72	2.83
N555-M0616	-	6	-	1/2	80	3.15
-	N555-0812	-	1/4	3/8	65	2.56
-	N555-0814	-	1/4	7/16	72	2.84
-	N555-0816	-	1/4	1/2	80	3.15
N555-M0714	NSSS-0914	7	9/32	7/16	72	2.83
N555-M0716	N555-0916	7	9/32	1/2	80	3.15
N555-M0816	NSSS-1016	8	5/16	1/2	80	3.15
N555-M0820	N555-1020	8	5/16	5/8	95	3.74
-	N555-1220	-	3/8	5/8	95	3.74
N555-M1020	-	10	-	5/8	95	3.74
N555-M1124	N555-1424	11	7/16	3/4	110	4.33
N555-M1224	-	12	-	3/4	110	4.33
-	N555-1624	-	1/2	3/4	110	4.33
-	N555-1628	-	1/2	7/8	138	5.43
N555-M1428	N555-1828	14	9/16	7/8	138	5.43
N555-M1632	N555-2032	16	5/8	1	155	6.10
N555-M1936	N555-2436	19	3/4	1 1/8	176	6.93
N555-M2240	N555-2840	22	7/8	1 1/4	206	8.11
N555-M2644	N555-3244	26	1	1.3/8	219	8.62
N555-M2848	N555-3648	28	1 1/8	1 1/2	235	9.25

N741 Swage T

The traditional T Terminal, crafted from 316 Stainless Steel.



					S	wage T							
WIE	EØ		METRIC			IMPERIAL		HEADH	EIGHT	HEAD	WIDTH	GRIP	DEPTH
mm	in	SWAGE PART NO.	BACKING PLATE	RETAINING PLUG	SWAGE PART NO.	BACKING PLATE	RETAINING PLUG	mm	in	mm	in	mm	in
2	-	N741-M02	N740-M03	N742-M03	-	-	-	6.3	0.25	14.5	0.57	7.0	0.28
2.5	3/32	N741-M025	N740-M03	N742-M03	N741-03	N740-03	N742-03	6.3	0.25	15.5	0.61	6.0	0.24
3	-	N741-M03	N740-M03	N742-M03	-	-	-	6.3	0.25	16.6	0.65	6.0	0.24
-	1/8	-	-	-	N741-04	N740-03	N742-03	6.3	0.25	16.6	0.65	6.0	0.24
4	5/32	N741-M04	N740-M04	N742-M04	N741-05	N740-05	N742-05	9.0	0.35	17.5	0.69	6.4	0.25
-	3/16	-	-	-	N741-06	N740-06	N742-06	9.0	0.35	17.5	0.69	6.4	0.25
5	-	N741-M05	N740-M05	N742-M05	-	-	-	11.1	0.44	20.0	0.79	8.0	0.31
-	7/32	-	-	-	N741-07	N740-07	N742-07	14.3	0.56	28.0	1.10	8.3	0.32
6	-	N741-M06	N740-M07	N742-M07	-	-	-	14.3	0.56	28.0	1.10	8.3	0.32
-	1/4	-	-	-	N741-08	N740-07	N742-07	14.3	0.56	28.0	1.10	8.3	0.32
7	9/32	N741-M07	N740-M07	N742-M07	N741-09	N740-07	N742-07	14.3	0.56	28.0	1.10	8.3	0.32
8	5/16	N741-M08	N740-M10	N742-M10	N741-10	N740-10	N742-10	17.8	0.70	32.0	1.26	12.0	0.47
-	3/8	-	-	-	N741-12	N740-10	N742-10	17.8	0.70	32.0	1.26	12.0	0.47
10	-	N741-M10	N740-M10	N742-M10	-	-	-	17.8	0.70	32.0	1.26	12.0	0.47

Grip depth is distance from bearing point to inside corner of 90-degree bend.

			T-Termi	inal Bac	king Pla	ates			
mm	WIRE Ø	METRIC PART NO.	IMPERIAL PART NO.	Α	ØD	w	L	Construction	RIVET INFO
2, 2.5, 3	3/32, 1/8	N740-M03	N740-03	.60"	.40"	.59"	1.98"	Stamped	2 X 3/16
4	5/32	N740-M04	N740-06	1.16"	.56"	1.00"	3.47"	Stamped	4 X 3/16
5	3/16	N740-M06	N740-06	1.10"	.66"	1.00"	2.60"	Stamped	2 X 1/4"
6,7	7/32, 1/4, 9/32	N740-M07	N740-07	1.55"	.88"	1.55"	4.85"	Stamped	4 X 1/4"
8,10	5/16, 3/8	N740-M10	N740-10	1.98"	1.00"	1.55"	5.95"	Cast	5 X 1/4"

N743 T Rings

T Rings enable fiber rope to connect to spars through a T Terminal backing plate. Ideal for replacing old wire runners and checkstays with lighter weight alternatives.



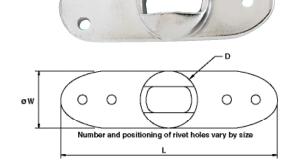
		T-R	lings		
	METRIC			IMPERIAL	
RING PART NO.	BACKING PLATE	RETAINING PLUG	RING PART NO.	BACKING PLATE	RETAINING PLUG
N743-M03	N740-M03	N742-M03	N743-03	N740-03	N742-03
N743-M04	N740-M04	N742-M04	N743-05	N740-05	N742-05
N743-M05	N740-M05	N742-M05	N743-06	N740-06	N742-06
N743-M06	N740-M07	N742-M07	N743-07	N740-07	N742-07

Backing plate determines T-ring size. For T-head details and backing plate, see charts on page 14.

N841 Swage Shroud Terminal

The optimum design for a quick-release terminal, the 841 combines conventional Terminal advantages with strength and durability under heavy loads.





WIR	ΕØ		METRIC			IMPERIAL		HEAD	HEIGHT	HEAD WIDTH	
mm	in	SWAGE PART NO.	BACKING PLATE	RETAINING PLUG	SWAGE PART NO.	BACKING PLATE	RETAINING PLUG	mm	in	mm	in
	7/32				N841-07	N840-07	N842-07	10.8	0.425	23.2	0.913
6	-	N841-M06	N840-M06	№842-M06			а	12.5	0.492	22.5	0.886
-	1/4				N841-08	N840-07	N842-07	12.5	0.492	22.9	0.902
7	9/32	N841-M07	N840-M07	N842-M08	N841-09	N840-09	N842-09	14.3	0.563	28.7	1.130
8	5/16	N841-M08	N840-M08	N842-M08	N841-10	N840-10	N842-09	16.0	0.630	29.0	1.142
9	~	N841-M09	N840-M10	№842-M10				17.8	0.701	30.0	1.181
	3/8				N841-12	N840-12	N842-12	17.8	0.701	32.5	1.280
10	~	N841-M10	N840-M10	№842-M10			w	17.8	0.701	32.5	1.280
11	7/16	N841-M11	N840-M12	N842-M12	N841-14	N840-14	N842-14	19.8	0.780	39.0	1.535
12		N841-M12	N840-M12	N842-M12			а	21.4	0.843	39.0	1.535
	1/2				N841-16	N840-14	N842-14	21.4	0.843	39.0	1.535

		Shr	oud Term	inal B	acking	Plate	8	
WI	RE Ø	METRIC	IMPERIAL	øр	w	1	Construction	BIVET INFO
mm	in	PART NO.	PART NO.	60	14		Consudedon	THE PROPERTY
6	7/32, 1/4	N840-M06	N840-07	1.25"	1.18"	3.75"	Stamped	3 X 1/4"
7	9/32	N840-M07	N840-09	1.5"	1.50°	4.75°	Stamped	3 X 1/4°
8	5/16	N840-M08	N840-10	1.6"	1.55°	4.75°	Cast	3 X 1/4"
10	3/8	N840-M10	N840-12	1.8"	1.75°	5.90"	Cast	4 X 1/4"
12	7/16, 1/2	N840-M12	N840-14	2.0"	2.00"	7.85"	Cast	5 X 1/4°

N639 Stemball Eye

Made from high-quality 316 Stainless Steel. Used as a toggle in some headstay and backstay applications.



PART	CU	ΡØ	PIN Ø			
NUMBER	mm	in	mm	in		
N639-3212	26.5	1.04	9.5	3/8		
N639-3214	26.5	1.04	11	7/16		
N639-3216	26.5	1.04	12.7	1/2		
N639-4416	34	1.34	12.7	1/2		
N639-4420	34	1.34	16	5/8		

N641 Swage Stemball

For mast attachment. Can be used with Navtec K200 Tangs. See chart on page 35 for more details.



			Swa	ge Sten	nballs				
WIR	ΕØ	MET	RIC	IMP	RIAL	SHA	FTØ	HEA	DØ
mm	in	PART NO.	CUP NO.	PART NO.	CUP NO.	mm	in	mm	in
3	-	N641-M03	N640-M04	-	-	6.3	0.25	14.3	0.56
-	1/8	-	-	N641-04	N640-04	6.3	0.25	14.3	0.56
4	5/32	N641-M04	N640-M04	N641-05	N640-04	7.5	0.30	16.3	0.64
-	3/16	-	-	N641-06	N640-06	9.0	0.35	18.8	0.74
5	-	N641-M05	N640-M05	-	-	9.0	0.35	18.8	0.74
-	7/32	-	-	N641-07	N640-07	10.8	0.43	19.0	0.75
6	-	N641-M06	N640-M07	-	-	12.5	0.49	20.3	0.80
-	1/4	-	-	N641-08	N640-08	12.5	0.49	20.3	0.80
7	9/32	N641-M07	N640-M07	N641-09	N640-08	14.2	0.56	21.2	0.83
8	5/16	N641-M08	N640-M12	N641-10	N640-10	16.1	0.63	27.3	1.07
-	3/8	-	-	N641-12	N640-10	17.8	0.70	27.8	1.09
10	-	N641-M10	N640-M12	-	-	17.8	0.70	28.0	1.10

N640 Stemball Cup

Made from 316 Stainless Steel. Used with N641 Stemballs to increase head diameter.



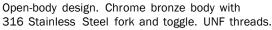
PART N	UMBER	OUT	ERØ	HOL	ΕØ
METRIC	IMPERIAL	mm	in	mm	in
N640-M03	-	21	0.83	11.00	0.44
N640-M04	N640-04	26	1.00	9.00	0.35
N640-M05	N640-06	26	1.00	11.00	0.43
N640-M06	N640-07	26	1.00	13.25	0.52
N640-M07	N640-08	26	1.00	16.30	0.64
N640-M12	N640-10	34	1.34	20.00	0.79

TURNBUCKLES FOR WIRE



Available in multiple designs, Navtec turnbuckles are compatible with most any wire-to-turnbuckle interface. We use 316 Stainless Steel for maximum strength and durability under any marine conditions.

N671 Fork-Toggle





	Open-Body Fork - Toggle Turnbuckle													
PART NO	THREAD	PIN	1Ø	FOR	GAP	FORK	K DEPTH LEN		H OPEN	LENGTH CLOSED		BREAKING	STRENGTH	
	U.N.F.	eam	in	123623	in	тт	83	тт	in	อาอา	in	kg	lbs	
N671-080808	1/4	6.27	0.247	6.4	0.252	13.0	0.512	192	7.56	137	5.39	1500	3300	
N671-101010	5/16	7.86	0.309	7.9	0.311	16.0	0.630	228	8.98	165	6.50	2270	5010	
N671-121212	3/8	9.44	0.372	9.5	0.374	19.0	0.748	297	11.69	205	8.07	3730	8220	
N671-141414	7/16	11.00	0.433	11.1	0.437	22.0	0.866	339	13.35	233	9.17	4990	11000	
N671-161616	1/2	12.60	0.496	12.7	0.500	25.5	1.004	381	15.00	269	10.59	6670	14700	
N671-202020	5/8	15.77	0.621	15.8	0.622	32.0	1.260	467	18.39	336	13.23	10700	23600	
N671-242424	3/4	18.94	0.746	19.0	0.748	38.0	1.496	498	19.61	356	14.02	16600	36600	
N671-282828	7/8	22.11	0.870	22.0	0.866	44.5	1.752	641	25.24	461	18.15	20600	45500	
N671-323232	1	25.29	0.996	25.4	1.000	51.0	2.008	770	30.31	545	21.46	26900	59300	
N671-363636	1 1/8	28.45	1.120	28.5	1.122	57.0	2.244	862	33.94	635	25.00	33600	74100	
N671-404040	1 1/4	31.63	1.245	31.7	1.248	63.5	2.500	980	38.58	712	28.03	38100	84000	
N671-444444	1 3/8	34.80	1.370	35.0	1.378	70.0	2.756	1096	43.15	794	31.26	45400	100000	

For toggle dimensions, see N673 chart on page 18.

N672 Toggle-Toggle

Open-body design. Chrome bronze body with 316 Stainless Steel toggles. UNF threads.



PART NO	THREAD	PIN	Ø	LENGT	LENGTH OPEN		CLOSED	BREAKING	STRENGT
	U.N.F.	mm	in	mm	in	mm	in	kg	lbs
N672-080808	1/4	6.27	0.247	270	10.61	190	7.46	1500	3300
N672-101010	5/16	7.86	0.309	249	9.80	181	7.13	2270	5010
N672-121212	3/8	9.44	0.372	320	12.60	228	8.98	3730	8220
N672-141414	7/16	11.00	0.433	368	14.49	262	10.32	4990	11000
N672-161616	1/2	12.60	0.496	438	17.24	326	12.83	6670	14700
N672-202020	5/8	15.77	0.621	520	20.47	389	15.31	10700	23600
N672-242424	3/4	18.94	0.746	613	24.12	471	18.53	16600	36600
N672-282828	7/8	22.11	0.870	718	28.25	538	21.17	20600	45500
N672-323232	1	25.29	0.996	827	32.54	602	23.69	26900	59300
N672-363636	1 1/8	28.45	1.120	916	36.07	689	27.14	33600	74100
N672-404040	1 1/4	31.63	1.245	1038	40.87	770	30,31	38100	84000
N672-444444	1 3/8	34.80	1.370	1178	46.38	876	34.49	45400	100000

N673 Swage-Toggle

Open-body swage and toggle. Chrome bronze body. 316 Stainless Steel swage studs and toggles. UNF threads.



				Open	-Bo	dy S	wag	e - 1	ogg	le Tu	rnbu	ckle				
PART NO	PART NO	W	RE 0	THREAD	P	NØ	TOGG	E GAP	TOGGL	E DEPTH	LENGTI	H OPEN"	LENGTH	CLOSED*	BREAKING ST	RENGTH
		mm	in	U.N.F.	mm	in.	mm	in	mm	in	mm	in	mm	in	ka	lbs
N673-M030809		9		1,/4	6.27	0.247	7.0	0.276	16.0	0.830	215	8.46	159	6.26	1500	3310
	N679-040908	-	1/9	1,/4	6.27	0.247	7.0	0.276	16.0	0.830	215	7.17	159	4.96	1500	3310
N673-M041010	N673-051010	4	5/32	5/16	7.88	0.309	0.0	0.354	18.0	0.709	218	H.58	154	8.08	2270	5010
	N673-861212	-	3/16	36	9.44	0.372	11.0	0.433	20.0	0.787	295	11.22	192	7.58	3790	8220
N673-M051010		5		5/16	7.88	0.309	0.0	0.354	18.0	0.709	285	11.22	192	7.58	2270	5010
N673-M051212		- 5		3.6	9.44	0.872	11.0	0.433	20.0	0.797	285	11.22	192	7.56	3730	8220
	N679-071212	-	7/32	3.6	9.44	0.372	11.0	0.433	20.0	0.797	295	11.22	192	7.56	3790	8220
	N673-071414	-	7/32	7/16	11.00	0.433	14.0	0.651	26.0	1.024	324	12.76	222	8.74	4940	1090
N673-M081212		6		36	9.44	0.372	11.0	0.433	20.0	0.787	324	1276	222	8.74	3730	8220
N67S-M061414		- 6		7/16	11.00	0.433	14.0	0.551	26.0	1.024	324	12.76	222	8.74	49.40	1090
	N673-081414	-	1/4	7/16	11.00	0.433	14.0	0.551	26.0	1.024	324	1276	222	8.74	4990	1100
	N673-091616	-	1/4	1./2	12.60	0.495	19.0	0.709	38.0	1.496	365	13.99	253	9.96	6870	1470
N673-M071414	N873-091414	7	9/32	7/16	11.00	0.433	14.0	0.551	26.0	1.024	347	13.66	245	9.65	4990	1100
N673-M071616	N673-091616	7	9/32	1.02	12.60	0.495	19.0	0.709	38.0	1.496	365	13.98	253	9.96	6870	1470
N673-M081616	N673-101616	8	5/16	1./2	12.60	0.498	18.0	0.700	35.0	1.378	382	15.04	271	10.67	6670	1470
N673-M082020	N873-102020	8	5/16	58	15.77	0.621	19.0	0.748	44.0	1.732	457	17.90	325	12.80	10700	2380
	N873-122020	-	3/8	58	15.77	0.621	19.0	0.748	44.0	1.732	457	17.90	325	12.80	10700	2360
N673-M102020		10		5.6	15.77	0.621	19.0	0.748	44.0	1.792	457	17.69	325	12.90	10700	3960
	N878-142424	-	7/16	3/4	18.94	0.746	29.0	0.908	52.0	2.047	580	20.67	394	15.12	16800	3660
N673-M122424		12		3/4	18,94	0.746	23.0	0.908	52.0	2.047	530	20.67	394	15.12	16800	3660
	N673-162424		1/2	3.4	1B.94	0.748	29.0	0.006	52.0	2.047	530	20.87	334	15.12	16600	3660
N673-M142828	N673-1B2828	14	9/18	7.6	22.11	0.870	25.0	0.984	60.0	2.362	650	25.50	460	18.11	20600	4550
N673-M163232	N673-203232	16	5/8	1	25.20	0.996	23.0	1.102	63.0	2.430	753	29.65	525	20.67	26900	5030
N673-M193636	N673-243636	19	3/4	11.6	28.45	1.120	31.5	1.240	66.0	2.508	842	33.15	613	24.13	33600	7410
N679-M224040	N673-284040	22	7/9	1.1/4	31.63	1.245	34.5	1,358	79.0	3.110	967	97.68	699	27.13	39100	8400
N673-M284444	N673-324444	26	1	136	34,80	1.370	39.0	1.498	100.0	3.937	1070	42.13	768	30.16	45400	10086

N674 Blank-Toggle

Open-body blank and toggle with chrome bronze body. 316 Stainless Steel toggles. UNF threads.



	Open-Body Blank - Toggle Turnbuckle													
PART NO	THREAD	PIN	10	STE	ROKE	BREAKIN	G STRENGTH							
	U.N.F.	mm	in	mm	in	kg	lbs							
N674-000808	1/4	6.27	0.247	80	3.15	1500	3300							
N674-001010	5/16	7.86	0.309	68	2.68	2270	5010							
N674-001212	3/8	9.44	0.372	92	3.62	3730	8220							
N674-001414	7/16	11.00	0.433	106	4.17	4990	11000							
N674-001616	1/2	12.60	0.496	112	4.41	6670	14700							
N674-002020	5/8	15.77	0.621	131	5.16	10700	23600							
N674-002424	3/4	18.94	0.746	142	5.59	16600	36600							
N674-002828	7/8	22.11	0.870	180	7.09	20600	45500							
N674-003232	1	25.29	0.996	225	8.86	26900	59300							
N674-003636	1 1/8	28.45	1.120	227	8.94	33600	74100							
N674-004040	1 1/4	31.63	1.245	268	10.55	38100	84000							
N674-004444	1 3/8	34.80	1.370	302	11.89	45400	100000							

For toggle dimensions see N673 chart above.

See extra options on page 20 for parts to fit upper end.

N676 Blank-Fork

Open-body design. Chrome bronze body, 316 Stainless Steel fork end. UNF thread sizes.



	Open-Body Blank - Fork Turnbuckle													
PART NO	THREAD	PIN	ıø	STR	OKE	BREAKING	STRENGTH							
	U.N.F.	mm	in	mm	in	kg	lbs							
N676-000808	1/4	6.27	0.247	80	3.15	1500	3300							
N676-001010	5/16	7.86	0.309	68	2.68	2270	5010							
N676-001212	3/8	9.44	0.372	92	3.62	3730	8220							
N676-001414	7/16	11.00	0.433	106	4.17	4990	11000							
N676-001616	1/2	12.60	0.496	112	4.41	6670	14700							
N676-002020	5/8	15.77	0.621	131	5.16	10700	23600							
N676-002424	3/4	18.94	0.746	142	5.59	16600	36600							
N676-002828	7/8	22.11	0.870	180	7.09	20600	45500							
N676-003232	1	25.29	0.996	225	8.86	26900	59300							
N676-003636	1 1/8	28.45	1.120	227	8.94	33600	74100							
N676-004040	1 1/4	31.63	1.245	268	10.55	38100	84000							
N676-004444	1 3/8	34.80	1.370	302	11.89	45400	100000							

For fork dimensions see N671 chart on page 17. See extra options on page 20 to fit upper end.

N677 Blank-Stemball

Open-body design. Chrome bronze body, Stainless Steel ends. Various thread sizes. UNF threads.



PART NO	THREAD	HEA	DØ	STR	OKE	BREAKING STRENG		
	U.N.F.	mm	in	mm	in	kg	lbs	
N677-000808	1/4	14.64	0.576	80	3.15	1500	3300	
N677-001010	5/16	18.00	0.709	68	2.68	2270	5010	
N677-001212	3/8	17.60	0.693	92	3.62	3730	8220	
N677-001414	7/16	22.00	0.866	106	4.17	4990	11000	
N677-001616	1/2	26.00	1.024	112	4.41	6670	14700	
N677-002020	5/8	40.68	1.602	131	5.16	10700	23600	
N677-002424	3/4	40.68	1.602	142	5.59	16600	36600	
N677-002828	7/8	43.63	1.718	180	7.09	20600	45500	

N534 Blank-Toggle

Closed-body design. Full Stainless Steel body with 316 Stainless Steel toggle end. UNF threads.



Blank - Toggle Closed-Body Turnbuckle

PART NO	THREAD	PIN	1Ø	STR	OKE	BREAKING STRENGTH		
	U.N.F.	mm	in	mm	in	kg	lbs	
N534-000808	1/4	6.27	0.247	52	2.05	1020	2240	
N534-001010	5/16	7.86	0.309	57	2.24	2030	4470	
N534-001212	3/8	9.44	0.372	78	3.07	3090	6800	
N534-001616	1/2	12.60	0.496	100	3.94	6680	14700	
N534-002020	5/8	15.77	0.621	121	4.76	10200	22400	

For toggle dimensions see N673 chart on page 18. See extra options below for parts to fit upper ends.

N535 Fork-Toggle

Closed-body design. Full 316 Stainless Steel rigging screw with fork and toggle. UNF threads.



Fork - Toggle Closed-Body Turnbuckle

PART NO	THREAD	PIN	Ø	LENGTH OPEN		LENGTH	CLOSED	BREAKING	STRENGTH
	U.N.F.	mm	in	mm	in	mm	in	kg	lbs
N535-080808	1/4	6.27	0.247	193	7.60	141	5,55	1020	2240
N535-101010	5/16	7.86	0.309	219	8.62	162	6.38	2030	4470
N535-121212	3/8	9.44	0.372	280	11.02	202	7.95	3090	6800
N535-161616	1/2	12.60	0.496	365	14.37	265	10.43	6680	14700
N535-202020	5/8	15.77	0.621	473	18.62	352	13.86	10200	22400

For toggle dimensions, see N673 chart on page 18, fork dimensions see N671 chart on page 17.

Extra Options

SWAGE STUD



Product prefix #:N555 See page 14 for details **SWAGELESS STUD**



Product prefix #:N030 See page 10 for details **ROD STUD**



Product prefix #:N090 See page 42 for details

Note: Forks, Eyes and Toggles also available.

C500 Turnbuckles

Swage end machined from 316 Stainless Steel, drilled through for full insertion of wire before swaging. Can be fitted with extra-long screw. Center screw design allows for maximum rig tensioning.



Swage - Tog	gle Turnt	ouckle
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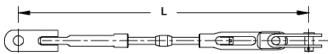
PART NUMBER	WIREØ	PIN	1Ø		GTH EN*		GTH SED*	BREA STRE		WEIG	GHT
		กากา	in	mm	in	mm	in	kg	lbs	kg	lbs
C500-061010	3/16	7.9	5/16	314	12.38	235	9.25	2,490	5,500	0.231	0.51
C500-061012	3/16	9.5	3/8	314	12.38	235	9.25	2,490	5,500	0.231	0.51
C500-071212	7/32	9.5	3/8	343	13.50	254	10.00	3,760	8,300	0.349	0.77
C500-071214	7/32	11.1	7/16	343	13.50	254	10.00	3,760	8,300	0.349	0.77
C500-081212	1/4	9.5	3/8	343	13.50	254	10.00	3,760	8,300	0.372	0.82
C500-081214	1/4	11.1	7/16	343	13.50	254	10.00	3,760	8,300	0.372	0.82
C500-081414	1/4	11.1	7/16	372	14.63	279	11.00	5,080	11,200	0.558	1.23
C500-081416	1/4	12.7	1/2	372	14.63	279	11.00	5,080	11,200	0.576	1.27
C500-091414	9/32	11.1	7/16	372	14.63	279	11.00	5,080	11,200	0.590	1.30
C500-091416	9/32	12.7	1/2	372	14.63	279	11.00	5,080	11,200	0.635	1.40
C500-101616	5/16	12.7	1/2	435	17.13	330	13.00	6,890	15,200	0.816	1.80
C500-101620	5/16	15.9	5/8	435	17.13	330	13.00	6,890	15,200	0.816	1.80
C500-122020	3/8	15.9	5/8	521	20.50	394	15.50	10,900	24,000	1.500	3.40
C500-142424	7/16	19.1	3/4	610	24.00	470	18.50	14,200	31,300	2.600	5.73
C500-162828	1/2	22.2	7/8	673	26.50	521	20.50	19,500	43,000	4.000	8.73
C500-182828	9/16	22.2	7/8	673	26.50	521	20.50	19,500	43,000	4.000	8.90
C500-203232	5/8	25.4	1	724	28.50	559	22.00	25,400	56,000	5.700	12.50
C500-244040	3/4	31.8	1 1/4	797	31.38	619	24.38	40,800	90,000	11.200	24.60

For toggle dimensions, refer to H200 High Fatigue Jaw chart, page 33. Compare using pin diameter.

C600 Double Toggle

Reliable and flexible. Features toggles at both ends. Most often used with Norseman-type eyes.





Toggle - Toggle Turnbuckle

PART NUMBER	PII	Ø	LEN			GTH SED	BREA STRE		WEK	тна
	mm	in	mm	in	mm	in	kg	lbs	kg	lbs
C600-001010	7.9	5/16	332	13.07	252	9.94	2,490	5,500	0.270	0.60
C600-001012	9.5	3/8	332	13.07	270	10.63	2,490	5,500	0.297	0.65
C600-001212	9.5	3/8	386	15.20	297	11.70	3,760	8,300	0.418	0.92
C600-001214	11.1	7/16	386	15.20	297	11.70	3,760	8,300	0.435	0.96
C600-001414	11.1	7/16	422	16.60	329	12.97	5,080	11,200	0.682	1.50
C600-001416	12.7	1/2	422	16.60	329	12.97	5,080	11,200	0.714	1.57
C600-001616	12.7	1/2	451	17.77	346	13.64	6,890	15,200	0.982	2.16
C600-001620	15.9	5/8	470	18.51	365	14.38	6,890	15,200	1.41	3.10
C600-002020	15.9	5/8	525	20.65	398	15.65	10,900	24,000	1.84	4.05
C600-002424	19.1	3/4	662	26.08	523	20.58	14,200	31,300	3.29	7.24
C600-002828	22.2	7/8	732	28.82	580	22.82	19,500	43,000	4.99	10.98
C600-003232	25.4	1	798	31.42	633	24.92	25,400	56,000	6.94	15.27
C600-004040	31.8	1 1/4	898	35.34	720	28.34	40,800	90,000	14.09	31.00

For toggle dimensions, refer to H200 High Fatigue Jaw chart, page 33. Compare using pin diameter.

Length measured from center of pin to end of wire in swage.

LIFELINE, GUARDRAIL & SAFETY FITTINGS



Our lifeline fittings are designed to be used with 3mm through 1/4" wire. The range has been proven over many years of use and is selected by boat builders who recognize that lifeline safety is not an area where quality can be compromised.

NLL-533 - Quickfit Lifeline Turnbuckle

NLL-536 - Lifeline Turnbuckle

NLL-550 - Short Swage Stud

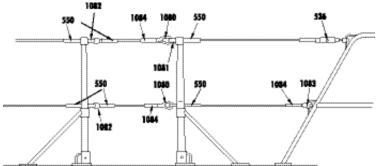
NLL-1080 - Pelican Hook

NLL-1081 - Threaded Lifeline Eye

NLL-1082 - Interlinked Eyes

NLL-1083 - Adjustable Fork End

NLL-1084 - Long Swage Stud with Locknut



N030 Norseman Swageless Stud

See page 10 for details.

NLL-550 Short Swage Stud

316 Stainless Steel made to be used with lifeline eyes. Wire 3mm to 1/4". Thread 8mm and 5/16".

NLL-1084

Long Swage Stud with Locknut

316 Stainless Steel made to be used with Closed-Body Turnbuckle, Pelican Hooks and Adjustable Fork Ends. Wire 3mm to 1/4". Thread 8mm and 5/16".

NLL-533 Quickfit Lifeline Turnbuckle

316 Stainless Steel made for wire sizes from 3mm to 5mm with 3.1" of stroke, easily adjusted with thumbscrew.

NLL-1081 Single Eye

316 Stainless Steel made with 5/16" (NLL-1081-10) or 8mm (NLL-1081-M08) threads.

NLL-1082 Interlinked Eyes

316 Stainless steel made with 5/16" (NLL-1082-10) or 8mm (NLL-1082-M08) threads.

NLL-536 Lifeline Turnbuckles

See closed body Turnbuckle on page 20 for details.















NLL-1083 Adjustable Fork End

316 Stainless Steel made with 5/16" (NLL-1083-1008) or 8mm (NLL-1083-M0808) threads.

NLL-1080 Pelican Hook

316 Stainless Steel made with 5/16" (NLL-1080-10R) or 8mm (NLL-1080-M08R) threads.

NLL-812 Pelican Hook

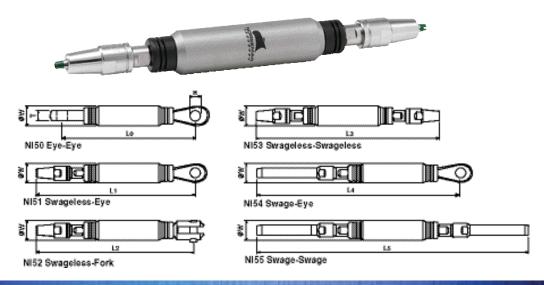
316 Stainless Steel made to be used with thimble and Nico or Talurit press.



WIRE RIGGING INSULATORS

NI Norseman Wire Rigging Insulators

For superior strength and electrical performance in a wire rigging/backstay system. Several end configurations are offered to make an adaptable connection. Withstands high sustained loads in all conditions.



Win Disping Insulators																				
Wire Rigging Insulators																				
. '	WIRE SIZE		LO		L1		L2		L3		L4		L5		øw		Н		Ţ	
n	nm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
		3/16	152	5.984	178	7.01	190	7.48	211	8.31	220	8.66	290	11.42	29	1.14	10	0.38	8	0.31
L	5		152	5.984	178	7.01	190	7.48	211	8.31	220	8.66	290	11.42	29	1.14	10	0.38	8	0.31
L		7/32	165	6.496	178	7.01	190	7.48	211	8.31	220	8.66	290	11.42	29	1.14	11	0.44	10	0.37
	6		165	6.496	198	7.80	203	7.99	229	9.02	238	9.37	315	12.40	29	1.14	11	0.44	10	0.37
		1/4	165	6.496	198	7.80	203	7.99	229	9.02	238	9.37	315	12.40	29	1.14	11	0.44	10	0.37
	7	9/32	185	7.283	216	8.50	222	8.75	241	9.49	271	10.67	360	14.17	35	1.37	13	0.51	11	0.43
	8	5/16	191	7.520	229	9.02	254	10.00	262	10.32	283	11.14	376	14.80	35	1.37	16	0.63	13	0.49
		3/8	365	14.370	308	12.13	346	13.63	308	12.13	402	15.83	510	20.08	44	1.73	16	0.63	17	0.65
	10		365	14.370	308	12.13	346	13.63	308	12.13	402	15.83	510	20.08	44	1.73	16	0.63	17	0.65
	11	7/16	277	10.906	341	13.43	362	14.25	401	15.79	443	17.44	598	23.54	44	1.73	19	0.76	18	0.71
	12		277	10.906	341	13.43	362	14.25	401	15.79	465	18.31	640	25.20	44	1.73	19	0.76	18	0.71
		1/2	277	10.906	341	13.43	362	14.25	401	15.79	465	18.31	640	25.20	44	1.73	19	0.76	18	0.71
	14	9/16	381	15.000	473	18.62	465	18.31	514	20.24	607	23.90	820	32.28	63	2.50	23	0.89	21	0.83
	16	5/8	406	15.984	479	18.86	499	19.65	552	21.73	638	25.12	844	33.23	63	2.50	26	1.01	24	0.94
	19	3/4	487	19.173	549	21.61	563	22.17	610	24.02	753	29.65	999	39.33	63	2.50	29	1.14	26	1.01
. 8	See wo	ebsite for	part numb	ers.																