PRODUCT CATALOG EDITION 1

NORSEMAN
GIBB

TABLE OF CONTENTS

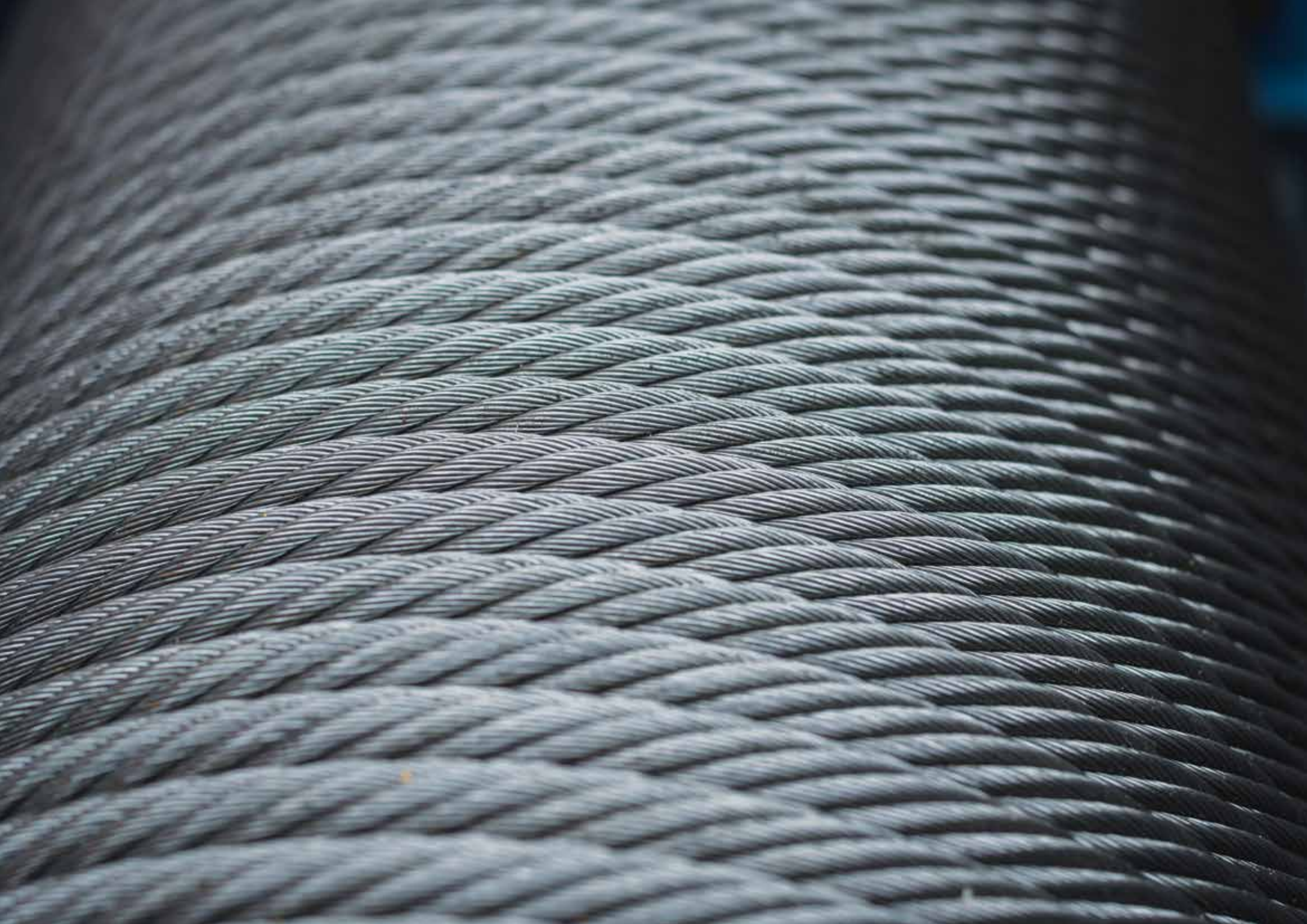
NORSEMAN GIBB

The name Norseman Gibb is known by many and to this day, it is one of the most well-known brands in the marine and architectural business. Even now, products from earlier production are still being sold in the market.

Since 2020 the name Norseman Gibb is back on the market. We manufacture and offer the same and similar high-quality items, while we have also refined and extended the program.

The people behind Noseman Gibb have decades of experience in the stainless-steel market. We are responsible for many projects in the nautical business, industrial business, as well as architectural business. This has made it possible for us to rely on an extensive network of prominent manufacturers.

*Product dimensions and specifications detailed within this catalog can change without notification. All specifications are for guidance only.



STAINLESS-STEEL WIRE ROPE

All of our stainless-steel wire rope is manufactured from 316L grade material. This provides high tensile steel wire, with maximum corrosion resistance. All wire rope is constructed with king wires providing support for the outer wires. Not only the material has been optimized to achieve maximum strength and minimum stretch, but also the arrangement of lay lengths has been adjusted to enhance these characteristics.

The dimensions and tensile grades of our stainless-steel wire correspond to the standard EN 1.4404 (AISI316L), which is the European norm for stainless-steel wire.
On special order, we also provide sizes above 26 mm. Please contact us for details and information on these sizes.

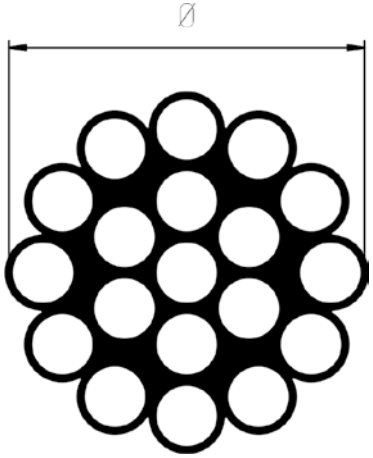
1x19 Stainless-steel cable

1x19 Cables are mostly used for yachting, balustrading, suspension and other tension members. This is because it has a higher rigidity, higher breaking strength and lower stretch than the 7x7 and the 7x19 constructions.

Flexibility: ••
Strength: •••
Stretch: ••

Wire rope 1x19

Product no.	Nominal diameter	Minimum breaking load			Approximate weight		Stretch	
	mm	kg	lbs	kn	kg/100m	lbs/100ft	mm/mm/1000kg	in/in/1000lb
NWR1192S	2	320	705	3,13	1,95	1,31	0,028961	0,0131642
NWR1192M	2,5	500	1100	4,90	3,05	2,05	0,018535	0,0084251
NWR1193	3	720	1590	7,06	4,49	3,02	0,012872	0,0058510
NWR1194	4	1280	2820	12,55	7,81	5,25	0,007378	0,0033537
NWR1195	5	2000	4400	19,61	12,20	8,20	0,004627	0,0021032
NWR1196	6	2880	6350	28,24	17,60	11,80	0,003224	0,0014655
NWR1197	7	3550	7800	34,81	23,90	16,10	0,002274	0,0010336
NWR1198	8	4640	10300	45,50	31,20	21,00	0,001833	0,0008332
NWR11910	10	7250	16000	71,10	48,80	32,80	0,001157	0,0005259
NWR11912	12	10400	22930	101,99	70,30	47,20	0,000806	0,0003664
NWR11914	14	14180	31260	139,06	95,70	64,30	0,000566	0,0002573
NWR11916	16	18560	40920	182,02	125,00	84,00	0,000460	0,0002091
NWR11919	19	21620	47660	212,03	176,00	118,00	0,000319	0,0001450
NWR11922	22	29070	64090	285,08	236,00	159,00	0,000235	0,0001068
NWR11926	26	40600	89500	398,16	330,00	222,00	0,000180	0,0000818
NWR11928	28	52600	115960	515,84	383,00	257,00	0,000142	0,0000645
NWR11930	30	58800	129600	576,65	443,00	298,00	0,000127	0,0000577
NWR11932	32	62800	138450	615,87	500,00	336,00	0,000115	0,0000523



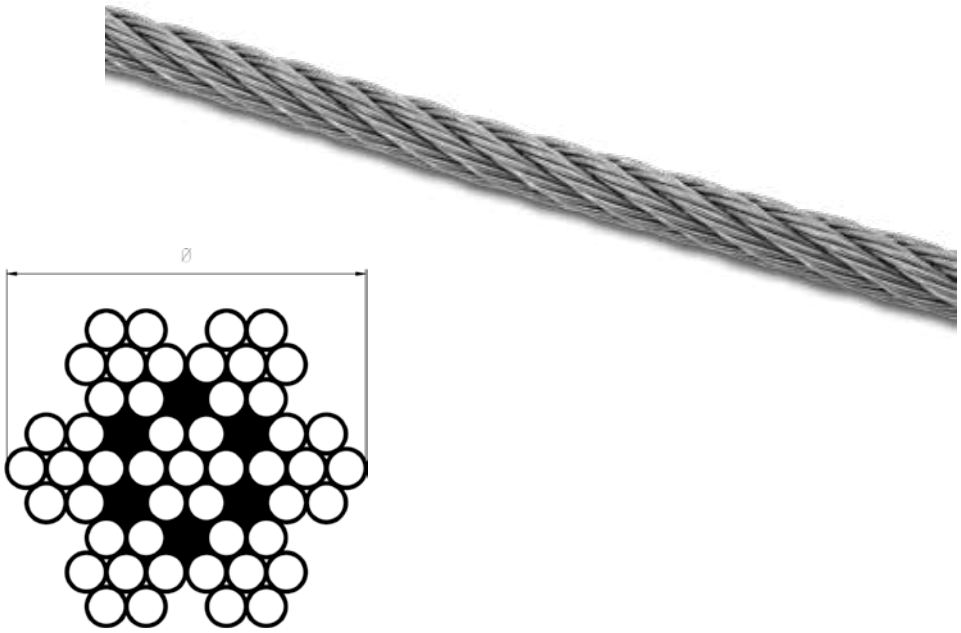
7x7 Stainless-steel cable

A 7x7 cable has a lower breaking strength than the 1x19 and is much more flexible due to the 7 strands of 7 small wires. It is often used for handrails and safety harness guide wires.

Flexibility: •••
Strength: ••
Stretch: •••

Wire rope 7x7

Product no.	Nominal diameter	Minimum breaking load			Approximate weight		Stretch	
	mm	kg	lbs	kn	kg/100m	lbs/100ft	mm/ mm/1000kg	in/ in/1000lb
NWR772	2	242	532	2,37	1,51	1,01	0,065672	0,0298511
NWR773	3	545	1199	5,34	3,40	2,28	0,029188	0,0132671
NWR774	4	968	2130	9,49	6,05	4,06	0,016418	0,0074628
NWR775	5	1510	3322	14,81	9,46	6,36	0,010508	0,0047762
NWR776	6	2180	4796	21,38	13,60	9,14	0,007297	0,0033168
NWR777	7	2970	6534	29,13	18,50	12,40	0,005361	0,0024368
NWR778	8	3870	8514	37,95	24,20	16,30	0,004105	0,0018657
NWR7710	10	6050	13310	59,33	37,80	25,40	0,002627	0,0011940
NWR7712	12	8710	19162	85,42	54,50	36,60	0,001824	0,0008292



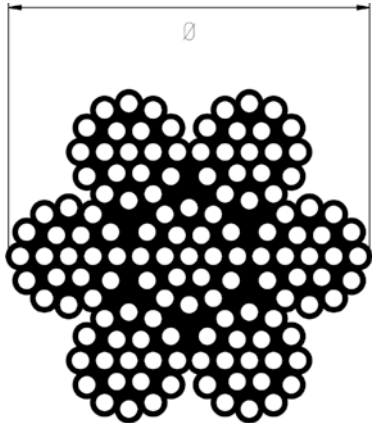
7x19 Stainless-steel cable

7x19 Wire rope has the highest flexibility and stretch. Due to its lower breaking strength, it is not commonly used for balustrading or as canopy ties. It is rather used for running load applications and is ideal for winch cables, because of its high flexibility. This wire is ideal for forming loops. The wire can easily be bent without damaging it.

Flexibility: ••••
Strength: •
Stretch: ••••

Wire rope 7x19

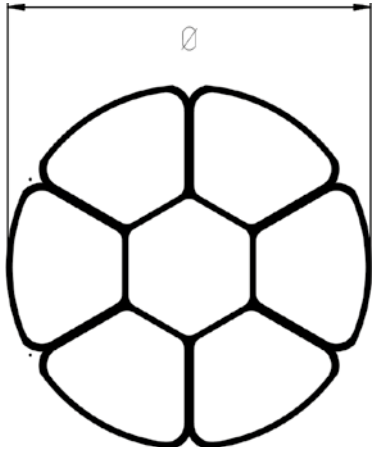
Product no.	Nominal diameter	Minimum breaking load			Approximate weight		Stretch	
	mm	kg	lbs	kn	kg/100m	lbs/100ft	mm/ mm/1000kg	in/ in/1000lb
NWR7192S	2	226	498	2,21	1,53	1,03	0,065672	0,0298511
NWR7192M	2,5	355	783	3,48	2,38	1,60	0,04203	0,0191047
NWR7193	3	510	1120	5,00	3,34	2,24	0,029188	0,0132671
NWR7194	4	907	2000	8,89	5,94	3,99	0,016418	0,0074628
NWR7195	5	1420	3130	13,92	9,29	6,24	0,010508	0,0047762
NWR7196	6	2040	4500	20,00	13,40	9,00	0,007297	0,0033168
NWR7197	7	2780	6130	27,26	18,20	12,23	0,005361	0,0024368
NWR7198	8	3630	8000	35,60	23,80	15,99	0,004105	0,0018657
NWR71910	10	5670	12500	55,60	37,20	25,00	0,002627	0,001194
NWR71912	12	8160	18000	80,02	53,50	35,95	0,001824	0,0008292
NWR71914	14	11100	24500	108,86	72,80	48,92	0,00134	0,0006092
NWR71916	16	13600	30000	133,37	99,00	66,52	0,001026	0,0004664



Compact Strands

The compact strands are available in 1x7, 1x19, 1x25 and 1x31. They are made up of the same amount of wires as the regular steel cables, but are compressed so that there is more material compacted into the cross section. This leads to a higher breaking strength, less flexibility and less stretch. It is often used for high performance yachting, roof truss ties and similar applications where minimum stretch is required.

Flexibility: •
Strength: ••••
Stretch: •



Compact strands

1x7 Compact strand

Product no.	Nominal diameter	Minimum breaking load			Approximate weight		Stretch	
	mm	kg	lbs	kn	kg/100m	lbs/100ft	mm/ mm/1000kg	in/ in/1000lb
NWRC17025	2,5	690	1521	6,77	3,4	2,28	0,014523	0,0066014
NWRC1703	3	1000	2205	9,81	4,9	3,29	0,010085	0,0045841
NWRC17035	3,5	1350	2976	13,24	6,7	4,50	0,00741	0,0033682
NWRC1704	4	1780	3924	17,46	8,8	5,91	0,005673	0,0025787
1x19 Compact strand								
NWRCC11905	5	2440	5379	23,93	13,5	9,07	0,003728	0,0016946
NWRCC11906	6	3550	7826	34,81	19,4	13,04	0,002589	0,0011768
NWRCC11907	7	4910	10825	48,15	26	17,47	0,001902	0,0008646
NWRCC11908	8	6150	13558	60,31	34,5	23,18	0,001456	0,0006618
NWRCC11910	10	9770	21539	95,81	54	36,29	0,000932	0,0004236
NWRCC11912	12	14400	31747	141,22	80,7	54,23	0,000647	0,0002941
1x25 Compact strand								
NWRCC12514	14	19300	42549	189,28	115	77,28	0,000476	0,0002164
NWRCC12516	16	25600	56438	251,06	147	98,78	0,000364	0,0001655
1x31 Compact strand								
NWRC13119	19	32000	70548	313,82	207	139,10	0,000258	0,0001173

STRETCH

Types of stretch

Wire rope stretches when load is applied to it. The more weight applied, the greater the stretch. There are, however, two different types of stretch: constructional stretch and elastic stretch.

Constructional stretch

This is the initial inelastic and permanent stretch caused by the wires bedding in. Because of small gaps in between the individual wires, the wires have room to move closer together when a load is applied, leading the cable to stretch. This means that the cable becomes slightly longer and has a slightly smaller diameter.

Elastic stretch

After the bedding in of the material, there is the elastic stretch. This is the stretch of the actual wire material itself. Elastic stretch is not permanent; once the load is removed, the material will return to its original length and diameter. Elastic stretch can be calculated using the formula pictured on the next page.

Elastic stretch = $\frac{WxL}{ExA}$

W = applied load (KN)
L = Cable length (mm)
E = Strand Modulus (KN/mm2)
A = Area of cable = $\frac{D^2x\pi}{4}$
D = Nominal diameter (mm)

Typical values for the strand modulus are:

1x19:	E = 107.5 KN/mm2
7x7:	E = 57.3 KN/mm2
7x19:	E = 47.5 KN/mm2
1x19 compact strand	E = 133.7 KN/mm2

Pre-stressing

Stainless-steel wire rope can be pre-stressed in order to remove constructional stretch. Elastic stretch cannot be removed, because the cable will return to its original form once the load has been removed. However, it can be tested how much the cable will stretch when the cable is pre-stressed with the exact same load that it will eventually have to hold. For compact strands, stretch is as low as 0,01%. Pre-stressing is therefore not needed for compact strands, since this is already achieved virtually on the initial loading.

Whether stretch is of concern depends on the eventual function of a cable. However, for the majority of (architectural) uses, constructional and elastic stretch will not be of importance.

STRUCTURAL

Stainless-steel wire rope is the perfect solution for constructions in which both strength and appearance are of importance. Equally as important as the strength of stainless-steel wire rope, is how the wire rope is attached and tensioned. Norseman Gibb offers a wide range of terminals for wire rope. All of our structural products are produced using 316L grade stainless-steel and are machined from solid bar. This makes the material extremely strong, reliable and require low maintenance.

Stud swage terminal metric thread

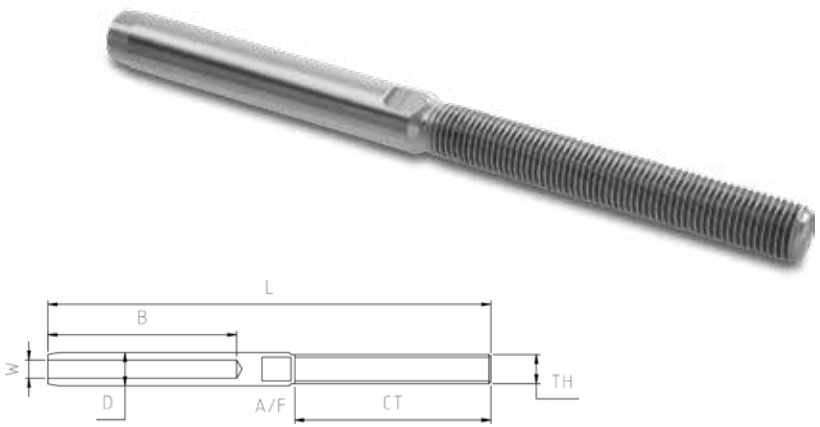
Product no.	W	TH	D	B	L	CT	A/F	Nominal weight
	mm		mm	mm	mm	mm	mm	g
NSSM3	3	M6	6,3	39	97	47	5	24
NSSM4S	4	M6	7,5	45	105	47	6	33
NSSM4M	4	M8	7,5	45	113	54	6	36
NSSM5S	5	M8	9,1	52	122	54	8	54
NSSM5M	5	M10	9,1	52	135	68	8	60
NSSM6S	6	M10	12,5	64	154	75	11	108
NSSM6M	6	M12	12,5	64	170	90	11	119
NSSM7	7	M12	14,3	70	177	90	12	162
NSSM8S	8	M12	16,0	80	190	90	14	196
NSSM8M	8	M16	16,0	80	201	100	14	260
NSSM10	10	M16	18,0	100	223	100	16	306
NSSM12	12	M20	21,4	132	277	120	19	550
NSSM14	14	M22	25,0	156	325	140	22	874
NSSM16	16	M27	28,2	176	371	160	25	1275

Product numbers are for RH thread. For LH thread add L to the product number (NSSM3L).

Stud swage terminal imperial thread

Product no.	W	TH	D	B	L	CT	A/F	Nominal weight
	mm	UNF	mm	mm	mm	mm	mm	g
NSSI3	3	1/4"	6,3	39	97	47	5	24
NSSI4M	4	5/16"	7,5	45	113	54	6	36
NSSI5S	5	5/16"	9,1	52	123	54	6	51
NSSI5M	5	3/8"	9,1	52	135	68	8	60
NSSI6S	6	3/8"	12,5	64	149	68	8	85
NSSI6M	6	7/16"	12,5	64	154	75	11	108
NSSI7	7	7/16"	14,3	70	161	75	11	130
NSSI8	8	1/2"	16,0	80	190	90	14	196
NSSI10	10	5/8"	18,0	100	223	100	16	306
NSSI12	12	3/4"	21,4	132	277	120	19	550
NSSI14	14	7/8"	25,0	156	325	140	22	874
NSSI16	16	1"	28,2	176	369	160	25	1275
NSSI19	19	1 1/8"	34,5	210	425	180	28	2050
NSSI22	22	1 1/4"	40,3	242	482	200	32	3200
NSSI26	26	1 3/8"	45,9	290	557	220	36	4000

Product numbers are for RH thread. For LH thread add L to the product number (NSSI3L).

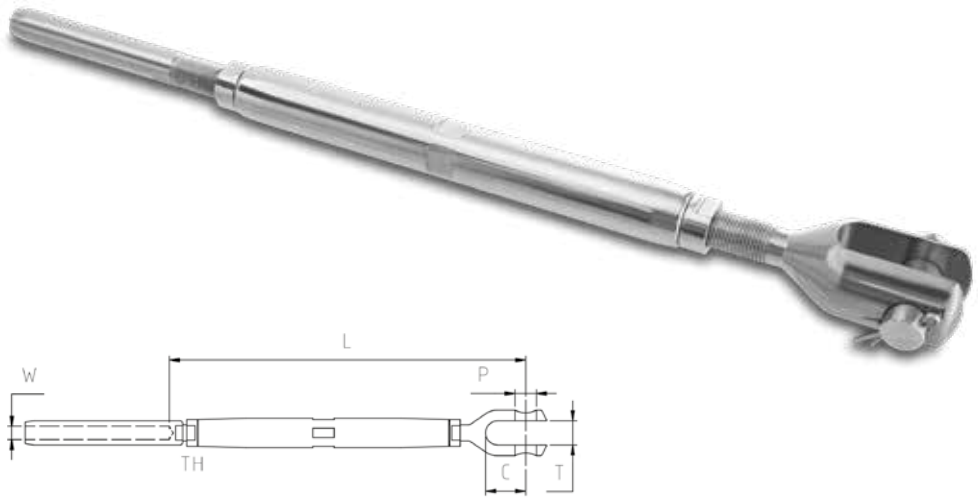


Studs

Studs are attached to the end of the stainless-steel wire, in order for it to be fastened to, for example, a balustrade. There are different ways to tension wire with a stud. For the first solution, the stud on the one side will be given a right-hand thread, while the stud on the other side is given a left-hand thread. This means that the wire only has to be turned in one direction for both threads to screw tight. The other way of tensioning is by simply using locking nuts on the thread of the studs.

Rigging screw closed body with stud and fork

Product no.	W	TH	P	C	T	MIN L	MAX L	Nominal weight
	mm	unf	mm	mm	mm	mm	mm	g
NRSFS3	3	1/4"	6	12,5	6,2	125	195	79
NRSFS4S	4	1/4"	6	12,5	6,2	126	196	80
NRSFS4M	4	5/16"	8	17	7,9	150,5	228,5	151
NRSFS4L	4	3/8"	9,5	19	9,9	184	284	152
NRSFS5S	5	5/16"	8	17	7,9	153,5	231,5	153
NRSFS5M	5	3/8"	9,5	19	9,9	184	284	257
NRSFS5L	5	7/16"	11	22	10,9	200	308	260
NRSFS6S	6	3/8"	9,5	19	9,9	187	287	261
NRSFS6M	6	7/16"	11	22	10,9	202	310	386
NRSFS6L	6	1/2"	12	25	12,7	236	368	450
NRSFS7	7	1/2"	12	25	12,7	236	368	591
NRSFS8S	8	1/2"	12	25	12,7	239	371	625
NRSFS8M	8	5/8"	14	28	14,0	300	455	1185
NRSFS8L	8	5/8"	16	32	15,8	310	466	1185
NRSFS10S	10	5/8"	16	32	15,8	312	468	1340
NRSFS10M	10	3/4"	19	38	17,8	359,5	530	1950
NRSFS12	12	3/4"	19	38	17,8	361	532	2218
NRSFS14	14	7/8"	22	45	22,0	403	600	3376
NRSFS16	16	1"	25	50	25,0	472	711	4925
NRSFS19	19	1 1/8"	28	58	28,2	531	801	5318
NRSFS22	22	1 1/4"	32	64	31,8	575	859	7711
NRSFS26	26	1 3/8"	35	70	34,9	655	979	14085

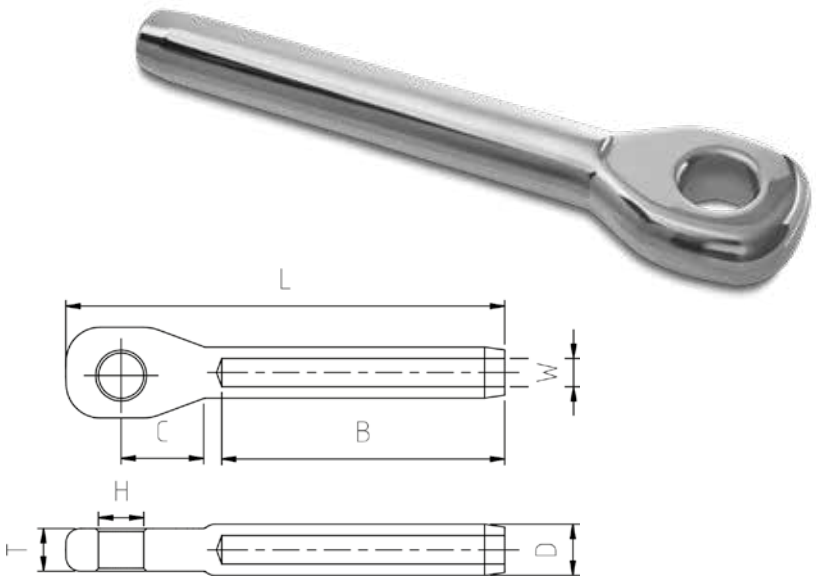


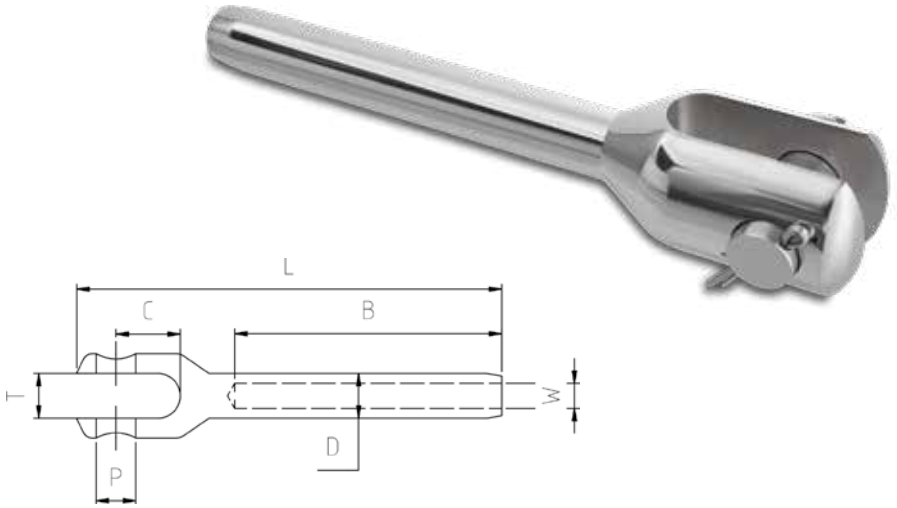
Tensioner

Another way of tensioning stainless-steel wire is by using a tensioner. This works by screwing a stud with attached wire into a turnbuckle, so that the wire reaches the right tension.

Fork swage terminal

Product no.	W	P	D	C	T	B	L	Nominal weight
	mm	mm	mm	mm	mm	mm	mm	g
NFS3	3	6	6,3	12,5	6,2	39	70,0	20
NFS4	4	8	7,5	17	7,9	45	83,0	36
NFS5	5	9,5	9,1	19	9,9	52	97,0	64
NFS6	6	11	12,5	22	10,9	64	113,0	142
NFS7	7	12	14,3	25	12,7	70	128,0	172
NFS8S	8	12	16,0	25	12,7	80	140,0	196
NFS8M	8	14	16,0	28	13,8	80	144,5	278
NFS10	10	16	18,0	32	15,8	100	174,0	376
NFS12	12	19	21,4	38	17,8	132	227,0	1097
NFS14	14	22	25,0	45	22,0	156	258,0	1105
NFS16	16	25	28,2	50	25,0	176	295,5	1683
NFS19	19	28	34,5	58	28,2	210	342,0	2580
NFS22	22	32	40,3	64	31,8	242	391,0	3611
NFS26	26	35	45,9	70	34,8	290	451,5	5019



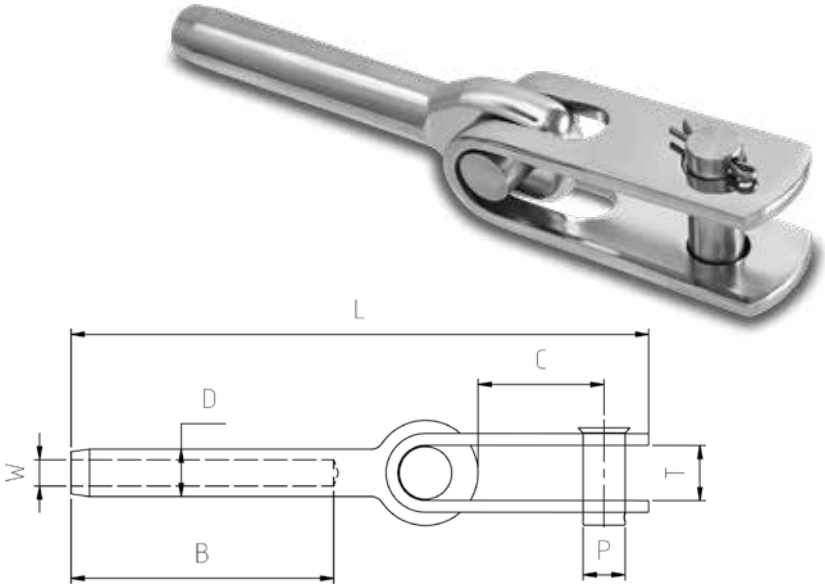


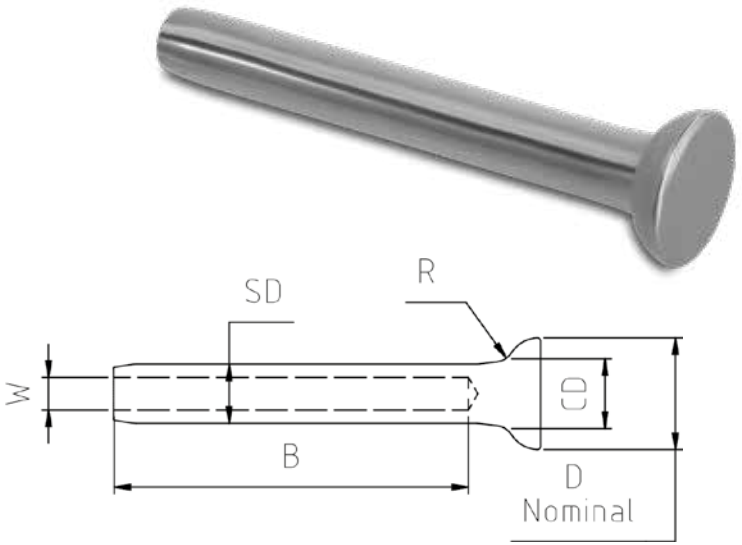
Eye swage terminal

Product no.	W	H	B	D	C	T	L	Nominal weight
	mm	mm	mm	mm	mm	mm	mm	g
NES4	4	6,35	45	7,5	14	6,5	72	23
NES5	5	8,00	52	9,1	17	7,8	85	42
NES6S	6	9,53	64	12,5	20	9,5	103	100
NES6M	6	11,10	64	12,5	23	11,5	110	109
NES7	7	12,70	70	14,3	23	11,5	114	129
NES8S	8	12,70	80	16,0	23	11,5	123	152
NES8M	8	14,28	80	16,0	24	13,5	130	178
NES8L	8	16,00	80	16,0	29	15,0	134	202
NES10	10	16,00	100	18,0	29	15,0	155	245
NES12	12	19,05	132	21,4	34	17,5	197	462
NES14	14	22,20	156	25,0	40	21,5	235	721
NES16	16	25,40	176	28,2	46	23,5	264	1090
NES19	19	28,60	210	34,5	51	27,5	308	1780
NES22	22	32,00	242	40,3	58	31,0	356	2704
NES26	26	35,00	290	45,9	63	33,5	414	3855

Toggle fork swage terminal

Product no.	W	P	D	C	T	B	L	Nominal weight
	mm	mm	mm	mm	mm	mm	mm	g
NTFS3	3	6	6,3	14	8	39	84	25
NTFS4	4	8	7,5	18	9	45	103	45
NTFS5	5	9,5	9,1	21	11	52	111	89
NTFS6	6	11	12,5	25	13	64	146	230
NTFS7	7	12,7	14,3	27	15	70	168	271
NTFS8S	8	12,7	16,0	27	15	80	169	295
NTFS8M	8	16	18,0	36	19	100	212	569
NTFS10	10	16	18,0	36	19	100	212	569
NTFS12	12	19	21,4	45	22	132	278	1409
NTFS14	14	22	25,0	53	25	156	328	1912
NTFS16	16	25	28,2	62	28	176	364	2516
NTFS19	19	28	34,5	63	32	210	430	4147
NTFS22	22	32	40,3	76	35	242	496	6039
NTFS26	26	35	45,9	92	38	290	571	8428





Stemball swage terminal

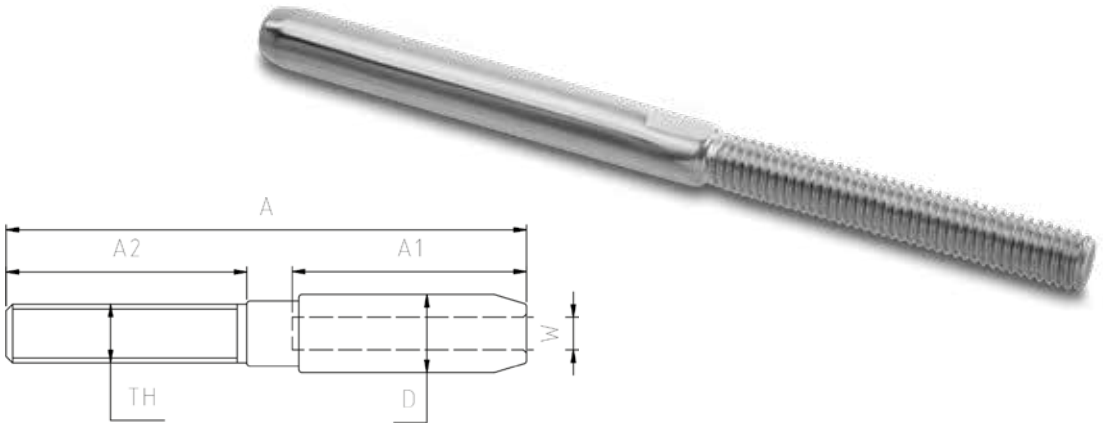
Product no.	W	D	B	R	SD	CD
	mm	mm	mm	mm	mm	mm
NSS3	3	12,5	39	6,4	6,3	6,8
NSS4	4	17	45	8,9	7,5	8,0
NSS5S	5	17	52	8,9	9,1	9,7
NSS5M	5	21	52	10,9	9,1	9,7
NSS6	6	21	64	10,9	12,5	13,4
NSS7S	7	21	70	10,9	14,3	15,3
NSS7M	7	27	70	13,9	14,3	15,3
NSS8	8	27	80	13,9	16,1	17,3
NSS10	10	31	100	15,8	17,8	19,1
NSS12	12	35	132	17,8	21,4	23,0

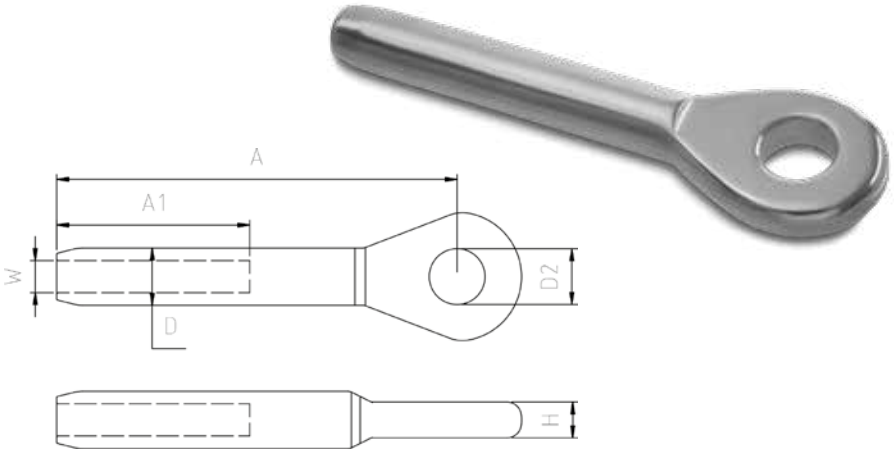
ARCHITECTURAL

Norseman Gibb structural products are all produced using 316L grade stainless-steel. All of these components are machined from solid bar. This is ideal for uses in which the material is exposed to the elements, because of its high corrosion resistance. In some cases , however, the strong properties of the structural products are not necessarily required. Norseman Gibb therefore offers a product range that is also manufactured in 316 grade stainless-steel, but has lower specifications and in most cases the end-fittings have welded parts and are casted. These products are perfect for architectural use.

Stud swage terminal metric thread

Product no.	W	TH	D	A	A1	A2
	mm		mm	mm	mm	mm
FSSM2	2	M5	5,5	50	18	27
FSSM3	3	M5	6,3	50	18	27
FSSM4	4	M6	7,5	60	25	30
FSSM5	5	M8	9,0	70	31	31
FSSM6	6	M10	12,5	85	37	40



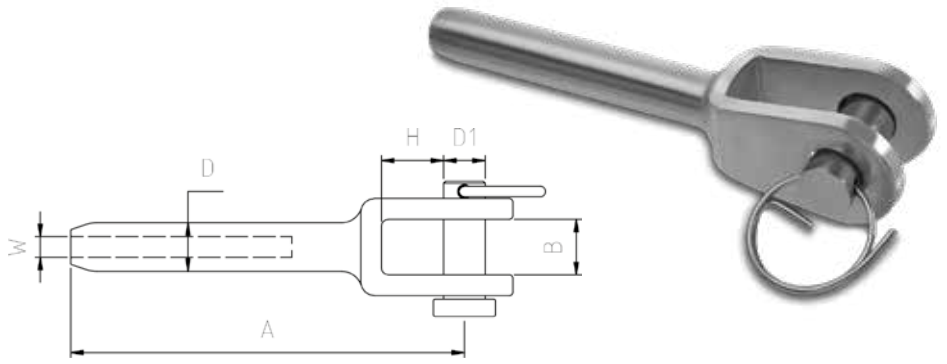


Eye swage terminal

Product no.	W	D	D2	A	A1	H
	mm	mm	mm	mm	mm	mm
FES3	3	6,3	6,5	40	18	5
FES4	4	7,5	8,5	52	24	6
FES5	5	9,0	9,5	62	30	7
FES6	6	12,5	13	75	36	8

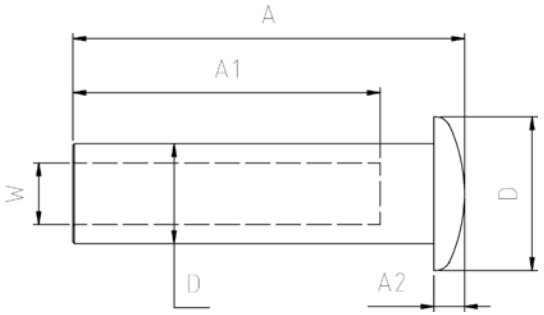
Fork swage terminal

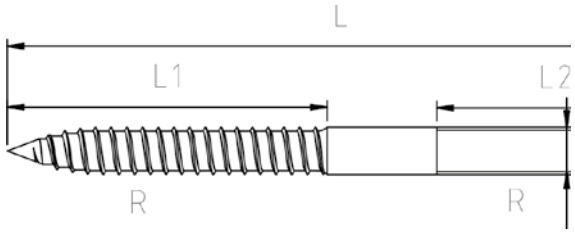
Product no.	W	D	D1	A	B	H
	mm	mm	mm	mm	mm	mm
FFS3	3	6,3	5	55	8	10
FFS4	4	7,5	6	65	8	10
FFS5	5	8,9	8	70	10	12
FFS6	6	12,4	10	85	12	14



Dome head swage terminal

Product no.	W	D	D1	A	A1	A2
	mm	mm	mm	mm	mm	mm
FDHS3	3	9	5,5	25	18	2
FDHS4	4	11	6,5	30	24	2
FDHS5	5	13	7,5	35	28	2,5
FDHS6	6	16	9,0	40	32	3



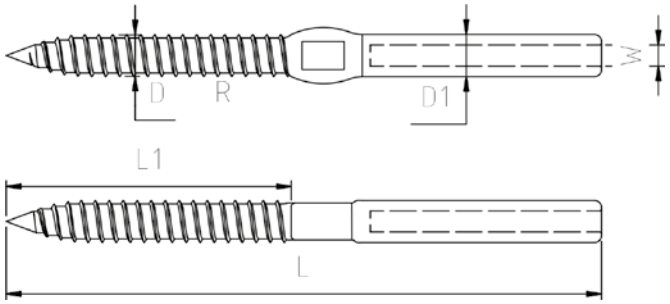


Wood screw with thread

Product no.	TH	L	L1	L2
		mm	mm	mm
FWS5	M5	80	43	32
FWS6	M6	90	50	35
FWS8	M8	130	65	55
FWS10	M10	150	75	55

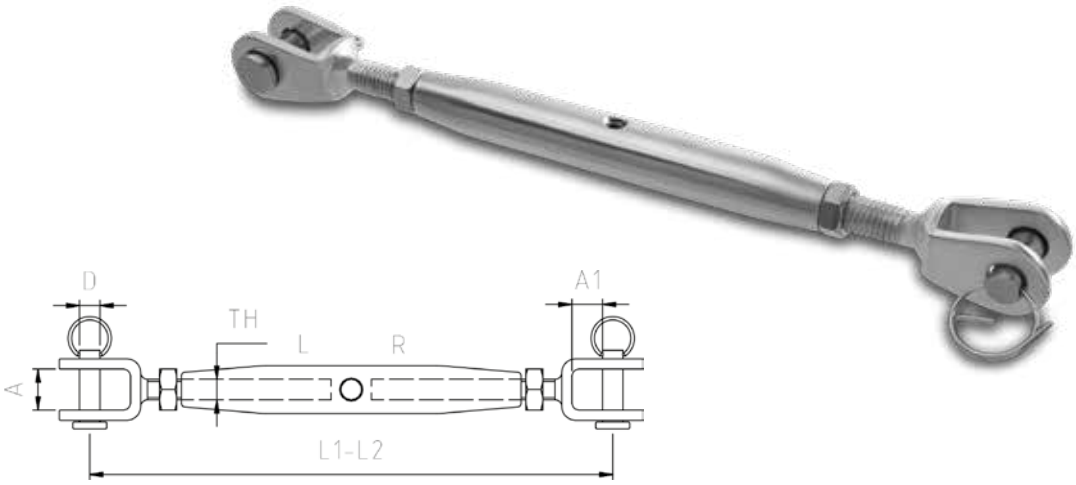
Stud swage wood thread

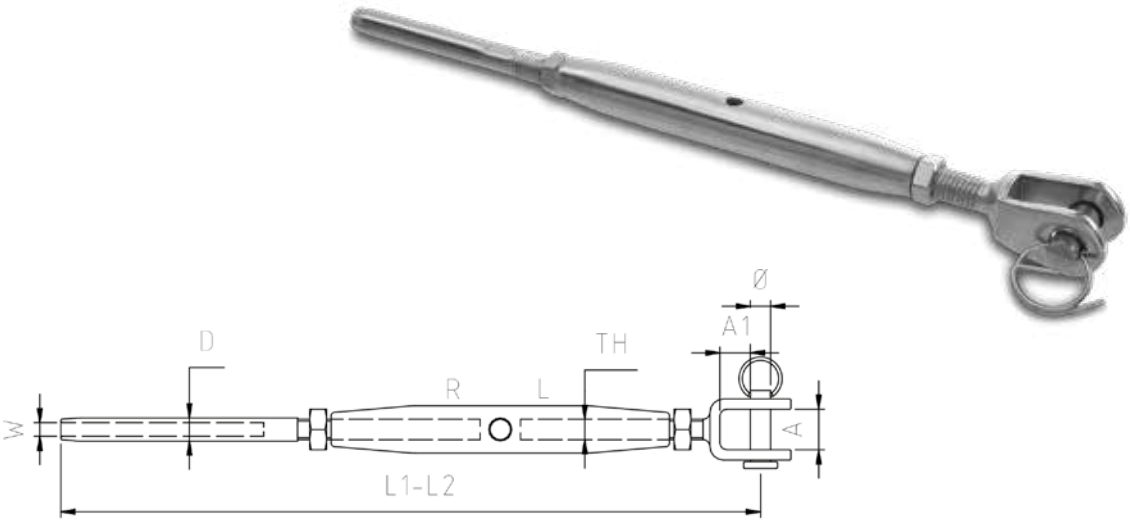
Product no.	W	D	D1	L	L1
	mm	mm	mm	mm	mm
FSSW3	3	6	6,4	97	48
FSSW4	4	8	7,5	115	54
FSSW5	5	10	9,0	128	61
FSSW6	6	12	12,6	162	79



Turnbuckle two forks

Product no.	TH	L1	L2	A	A1	D	MBL
		mm	mm	mm	mm	mm	kg
FTFF4	M4	110	170	5,5	8,5	4	650
FTFF5	M5	130	190	6,5	10	5	900
FTFF6	M6	150	220	7,5	10	6	1250
FTFF8	M8	165	240	11	11	8	1750
FTFF10	M10	190	280	12	14	9	3500
FTFF12	M12	245	360	14	20	12	5100
FTFF14	M14	270	390	15	22	12	5900
FTFF16	M16	310	450	17	26	16	8000
FTFF20	M20	360	510	20	30	19	13000



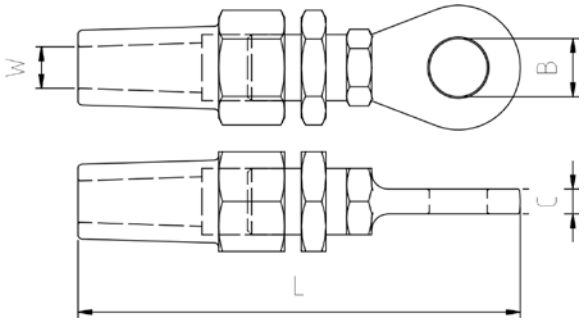


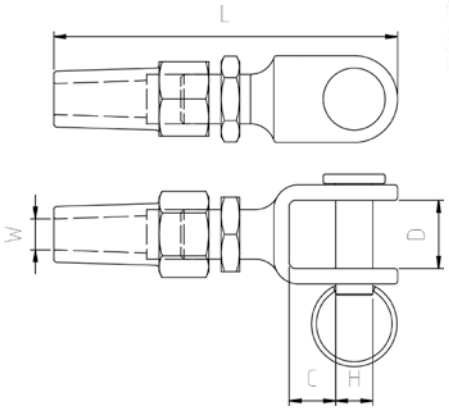
Turnbuckle fork and swage stud

Product no.	TH	W	L1	L2	A	A1	Ø	D
		mm	mm	mm	mm	mm	mm	mm
FTFS5	M5	2,5	155	215	6	10	5	5,5
FTFS6S	M6	3	175	245	7,5	10	6	6,4
FTFS6M	M6	4	185	255	7,5	10	6	7,5
FTFS8S	M8	4	200	275	11	11	8	7,5
FTFS8M	M8	5	205	280	11	11	8	9
FTFS10S	M10	5	230	320	12	14	9	9
FTFS10M	M10	6	245	335	12	14	9	12,6
FTFS12S	M12	6	285	400	14	20	12	12
FTFS12M	M12	8	305	420	14	20	12	16
FTFS14	M14	7	315	435	15	22	15	14,2
FTFS16S	M16	8	360	500	17	26	17	16
FTFS16M	M16	10	370	510	17	26	16	17,8
FTFS20S	M20	10	410	560	20	30	20	17,8
FTFS20M	M20	12	410	560	20	30	20	20

Eye swageless terminal

Product no.	W	B	C	L
	mm	mm	mm	mm
FEM4	4	8	6,5	67
FEM5	5	10	8	80
FEM6	6	12	9	95
FEM8	8	14	10	119



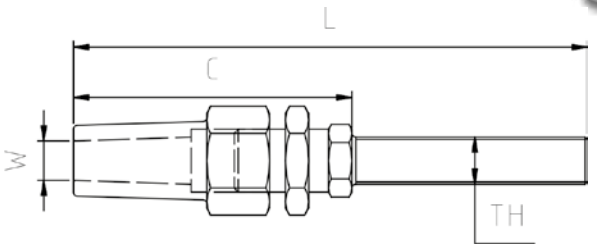


Fork swageless terminal

Product no.	W	D	C	L	H
	mm	mm	mm	mm	mm
FFM4	4	8	8	72	8
FFM5	5	10	10	82	10
FFM6	6	12	12	94	12
FFM8	8	14	14	116	14

Stud swageless terminal

Product no.	W	TH	C	L
	mm		mm	mm
FSM8	4	M8	57	100
FSM10	5	M10	63	117
FSM12	6	M12	80	145
FSM16	8	M16	100	182



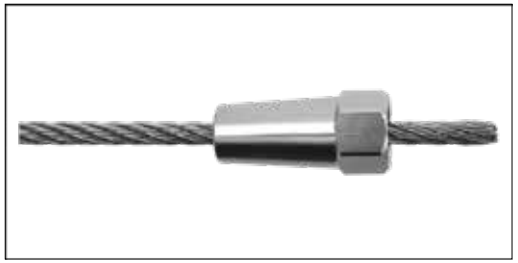
SWAGELESS TERMINAL ASSEMBLY

Swage vs. swageless

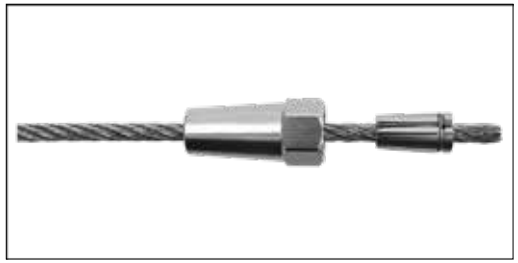
Swage terminals are attached to stainless-steel wire rope with a swaging machine. The wire will therefore be delivered with the terminal already attached. The machine works by squeezing the terminal into the interstices of the steel wire. This joins the two parts together, producing a swage that is as strong as the rated breaking load of the wire itself.

Unlike the swage terminals, swageless terminals are not attached to the wire with a machine. They can therefore be attached on-site, by hand. The following guide illustrates how a swageless terminal is correctly assembled.
Swageless terminals have distinct properties which each serve a different purpose. Architectural swageless terminals are different from structural or yachting terminals. Please contact us for more information.

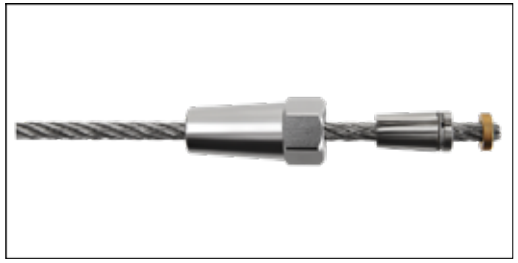
ASSEMBLY INSTRUCTIONS



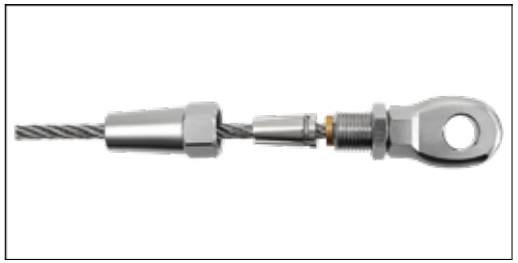
Cut your wire to size and slide the cone onto it.



Carefully slide the jaws onto the cable, leaving an equal amount of space between each jaw.



Place the washer, leaving 5mm space to the end of the cable.



Turn the nut as far as possible on the terminal head and place at the end of the cable.

Slide the cone to the terminal head and screw on as tight as possible.

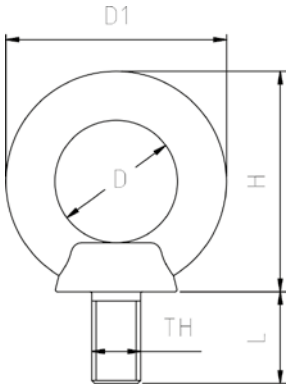
Turn the screw of the terminal head as tight as possible towards the cone.

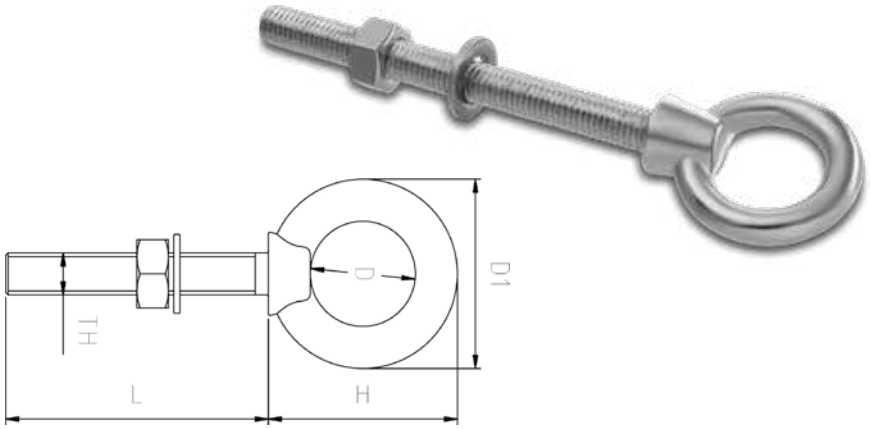
CONNECTORS

Norseman Gibb connectors can serve a variety of purposes. Some of its uses include connections to surfaces or other constructions. Because of the wide variety of connectors we offer, Norseman Gibb connectors can be applied to almost every surface. Connectors can also be custom made to specification. Contact our dedicated sales team for more information.

Eye bolt short thread forged

Product no.	TH	D	L	H	D1
		mm	mm	mm	mm
FEBS8	M8	20	13	36	36
FEBS10	M10	25	17	45	45
FEBS12	M12	30	20	53	54
FEBS16	M16	35	27	62	63
FEBS20	M20	40	30	71	72
FEBS24	M24	50	36	90	90



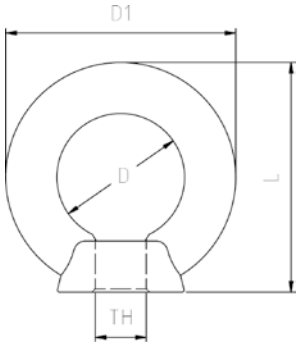


Eye bolt long thread

Product no.	TH	D	L	H	D1
		mm	mm	mm	mm
FEBL6S	M6	16	40	31	27
FEBL6M	M6	16	60	31	27
FEBL6L	M6	16	80	31	27
FEBL8S	M8	20	80	36	36
FEBL8M	M8	20	100	36	36
FEBL10	M10	25	100	45	45
FEBL12	M12	30	120	53	54

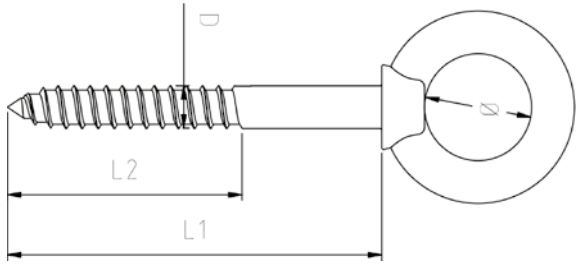
Eye nut forged

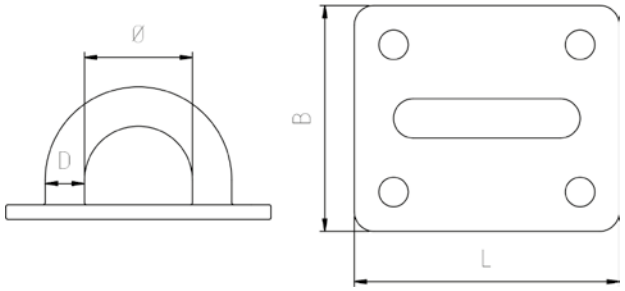
Product no.	TH	D	L	D1
		mm	mm	mm
FEN8	M8	20	36	36
FEN10	M10	25	45	45
FEN12	M12	30	53	54
FEN16	M16	35	62	63
FEN20	M20	40	71	72
FEN24	M24	50	90	90



Eye wood screw

Product no.	D	L1	L2	Ø
	mm	mm	mm	mm
FEWS5	5	50	30	11
FEWS6	6	60	35	14
FEWS8	8	80	50	18
FEWS10	10	100	60	22



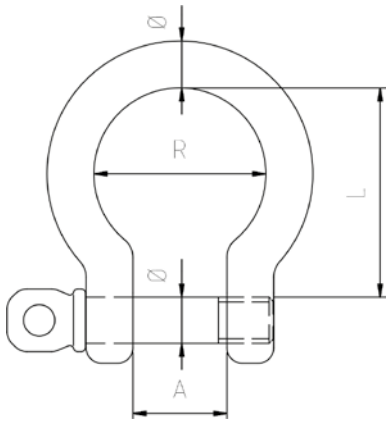


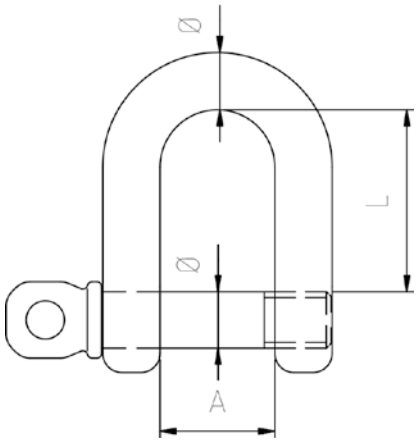
Eye plate

Product no.	L	B	D	Ø
	mm	mm	mm	mm
FEP35	35	30	5	12
FEP40	40	35	6	18
FEP50	50	40	8	28

Bow shackle

Product no.	Ø	A	R	L	MBL
	mm	mm	mm	mm	kg
FBS4	4	8	14	14	800
FBS5	5	10	17	17,5	1200
FBS6	6	12	21	21	1900
FBS8	8	16	28	28	2800
FBS10	10	20	34	35	4300
FBS12	12	24	42	42	6500
FBS13	13	26	45	39	7500
FBS16	16	32	56	56	12000
FBS19	19	38	66	78,5	18200
FBS22	22	44	75	77	21000



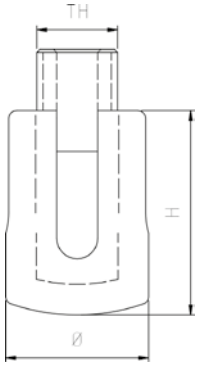


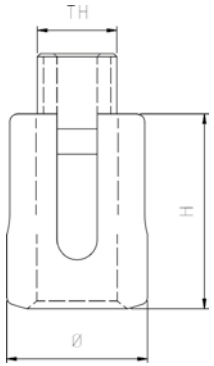
D shackle

Product no.	Ø	A	L	MBL
	mm	mm	mm	kg
FDS3	3	7	11	500
FDS4	4	8	14	700
FDS5	5	10	14,5	1000
FDS6	6	12	21	1500
FDS7	7	14	23,5	2200
FDS8	8	16	28	3000
FDS10	10	20	36	4500
FDS12	12	24	44	7000
FDS13	13	26	46,5	9000
FDS16	16	32	56	10000
FDS19	19	35	65,5	16000
FDS22	22	44	74	20000
FDS25	25	50	85,5	24000
FDS32	32	64	108	31000

Cross wire rope clip

Product no.	WR-Ø	TH	H	Ø
	mm		mm	mm
FCC3	3	M12	19	20
FCC4	4	M12	21	20
FCC5	5	M12	23	20
FCC6	6	M12	25	20



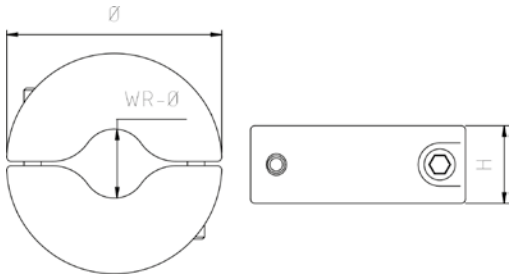


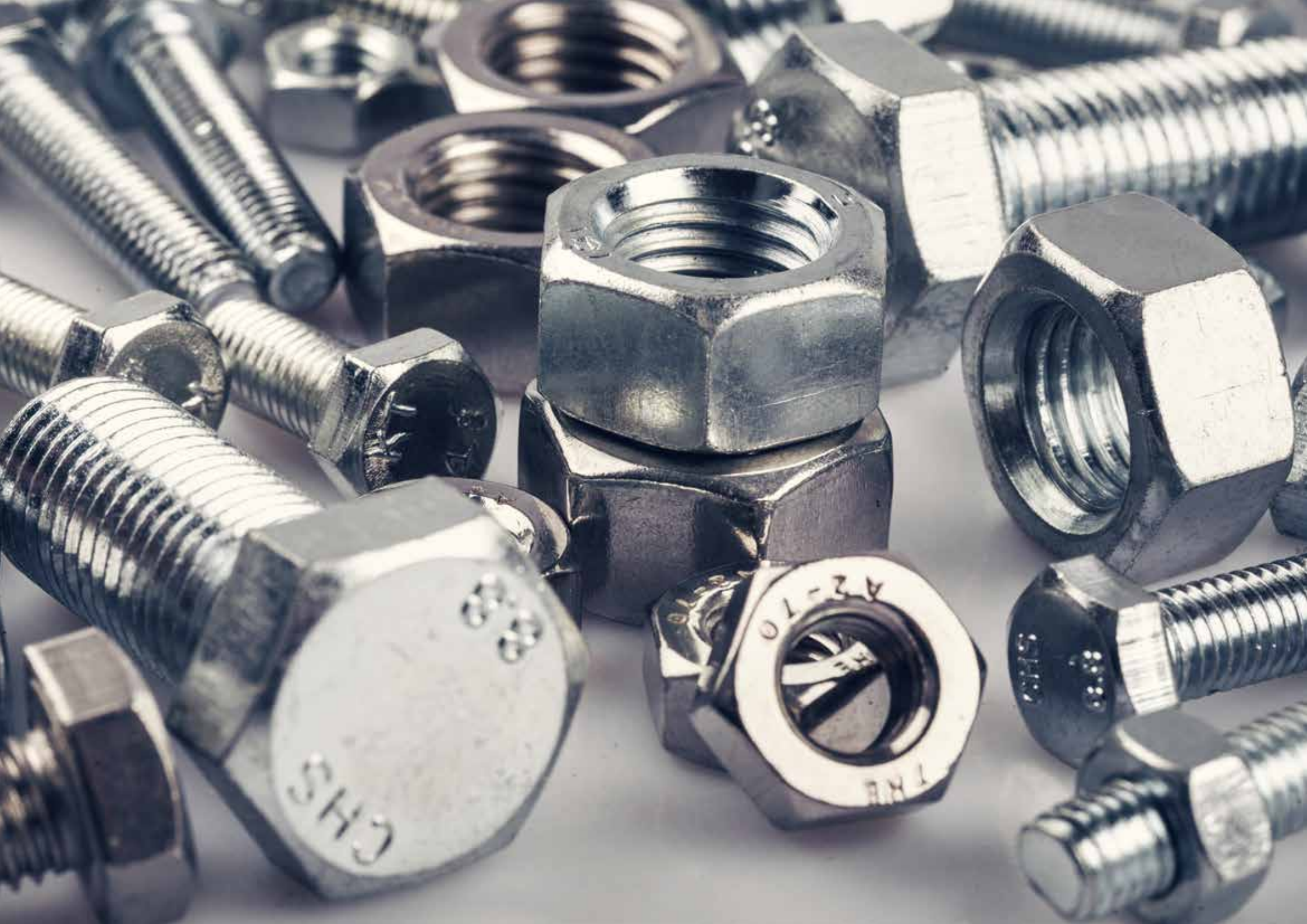
Wire rope clip open base

Product no.	WR-Ø	TH	H	Ø
		mm	mm	mm
FCO3	3	M10	17	19
FCO4	4	M12	20	21
FCO5	5	M12	20	23

Wire rope clip ring

Product no.	WR-Ø	TH	H	Ø
	mm		mm	mm
FCR2	2	M3	10	15
FCR3	3	M3	10	15
FCR4	4	M3	10	15
FCR5	5	M3	10	20
FCR6	6	M3	10	20
FCR8	8	M4	12	20

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LOCKING NUTS

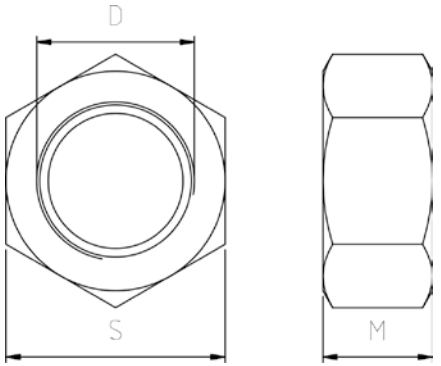
Norseman Gibb locking and tensioning nuts are compatible with our entire product range. They are used for both tensioning and aesthetic purposes. The stud angle adjusters for slanted balustrades or surfaces are available in different angles.

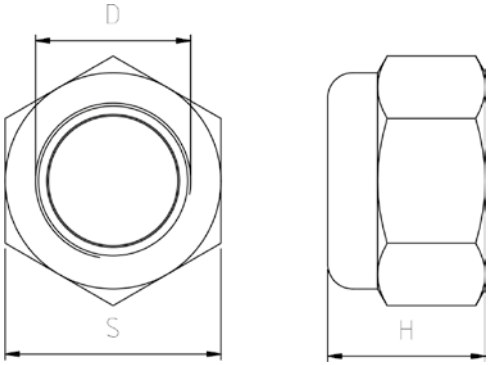
Hexagon nut

Product no.	D	M	S
		mm	mm
FHN3	M3	2,15	5,5
FHN4	M4	2,9	7
FHN5	M5	3,7	8
FHN6	M6	4,7	10
FHN8	M8	6,14	13
FHN10	M10	7,64	17
FHN12	M12	9,64	19
FHN14	M14	10,3	22
FHN16	M16	12,3	24

Hexagon nut UNF

Product no.	D	M	S
	UNF	mm	mm
FHN3U	1/4"	2,15	5,5
FHN4U	5/16"	2,9	7
FHN6U	3/8"	4,7	10
FHN10U	7/16"	7,64	17
FHN14U	1/2"	10,3	22
FHN16U	5/8"	12,3	24



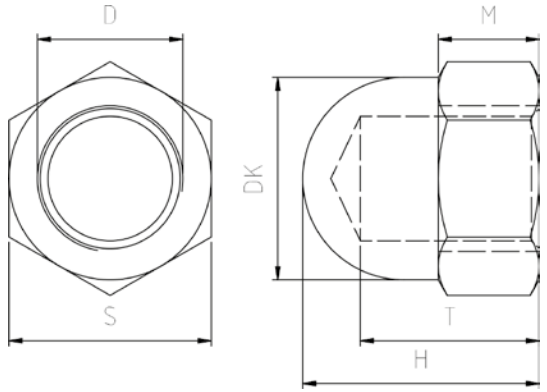


Locking hexagon nut

Product no.	D	H	S
		mm	mm
FLN3	M3	4	5,5
FLN4	M4	5	7
FLN5	M5	5	8
FLN6	M6	6	10
FLN8	M8	8	13
FLN10	M10	10	17
FLN12	M12	12	19
FLN14	M14	14	22
FLN16	M16	16	24

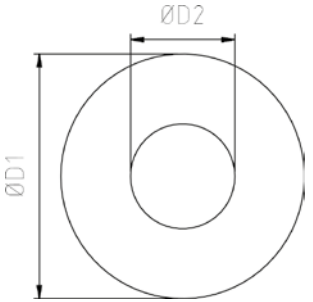
Dome hexagon nut

Product no.	D	DK	H	M	S	T
		mm	mm	mm	mm	mm
FDN3	M3	5	6,5	2,5	5,5	4,5
FDN4	M4	6,5	8	3,2	7	5,5
FDN5	M5	7,5	10	4	8	7,5
FDN6	M6	9,5	12	5	10	8
FDN8	M8	12,5	15	6,5	13	11
FDN10	M10	16	18	8	17	13
FDN12	M12	18	22	10	19	16
FDN14	M14	21	25	11	22	18
FDN16	M16	23	28	13	24	21



Stud angle adjuster

Product no.	TH	Ø D1	Ø D2
		mm	mm
FSAA3	M3	8	3,3
FSAA4	M4	10	4,3
FSAA5	M5	10	5,5
FSAA6	M6	13	7,3
FSAA8	M8	18	8,5
FSAA10	M10	22	10,5
FSAA12	M12	24	12,5
FSAA14	M14	24	14,5
FSAA16	M16	32	17,0



CLAMPING

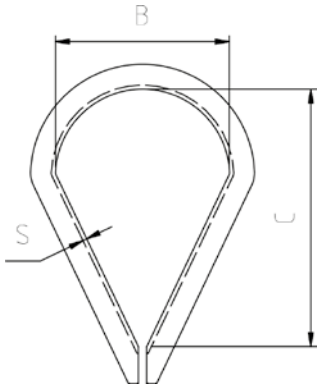
Eye or loop terminations are a common way to terminate stainless-steel wire rope. Norseman Gibb offers ferrules, sleeves and fittings to serve a variety of applications. Thimbles are used to create a loop and a wire rope clamp or ferrule is swaged or screwed on the wire rope to contain the two parts of the rope where the end meets the beginning of the loop.

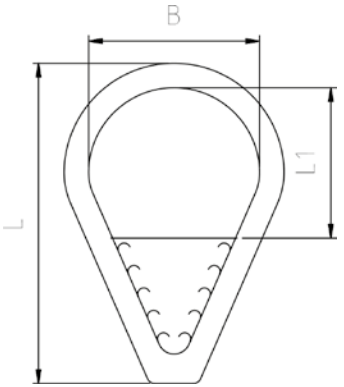
Thimble

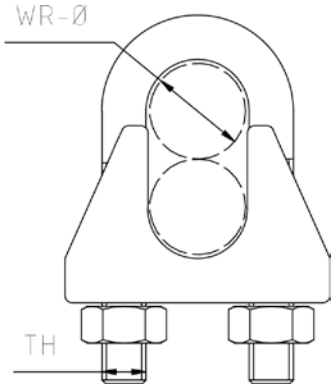
Product no.	WR-Ø	B	C	S
	mm	mm	mm	mm
FT2S	2	7	10	0,7
FT2M	2,5	8	14	0,7
FT3	3	9	15	1,0
FT4	4	11	18	1,0
FT5	5	14	20	1,2
FT6	6	15	23	1,2
FT8	8	18	29	1,5
FT10	10	24	37	1,5
FT12	12	29	50	1,5
FT14	14	33	54	2,0
FT16	16	37	64	2,0
FT18	18	40	70	2,5
FT20	20	45	75	2,5
FT24	24	48	79	2,5

Thimble with bar

Product no.	WR-Ø	B	L	L1
	mm	mm	mm	mm
FTB6	6	23	37	11
FTB8	8	31	50	15
FTB10	10	39	53	21
FTB12	12	42	60	25
FTB14	14	51	74	30







Wire rope clamp

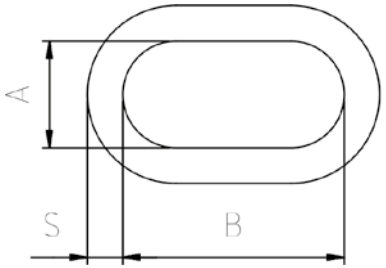
Product no.	WR-Ø	TH
	mm	
FWRC2	2	M3
FWRC3	3	M3
FWRC4	4	M4
FWRC5	5	M5
FWRC6	6	M6
FWRC8	8	M6
FWRC10	10	M8
FWRC12	12	M10
FWRC13	13	M10
FWRC16	16	M10
FWRC18	18	M12
FWRC22	22	M12

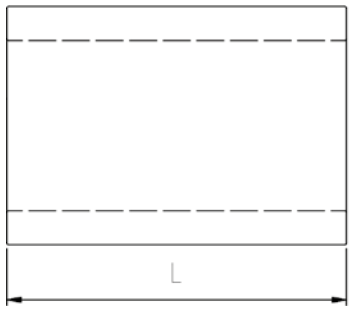
Stainless-steel ferrule

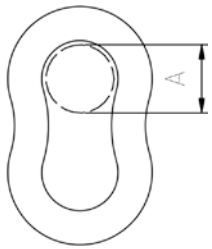
Product no.	WR-Ø	Clamping size	A	B	S	L
	mm	mm	mm	mm	mm	mm
FSF1S	1	1	1,2	2,4	0,65	5
FSF1M	1,5	1,5	1,7	3,4	0,85	6
FSF2S	2	2	2,5	4,5	1,0	7
FSF2M	2,5	3	2,7	5,4	1,0	9
FSF3	3	3	3,5	7,5	1,0	11
FSF4	4	4	4,5	9,2	1,5	14
FSF5	5	5	5,6	11,5	2,0	18
FSF6	6	6	6,8	13,5	2,5	21
FSF7	7	7	8,0	16,5	2,5	25
FSF8	8	8	9,0	18,0	3,0	28
FSF10	10	10	11,5	22,5	3,2	35
FSF12	12	12	14,2	28,5	4,0	42

Copper ferrule

Product no.	WR- Ø	Clamping size	A	B	S	L
	mm	mm	mm	mm	mm	mm
FCF1S	1	1,5	1,7	3,4	0,75	6
FCF1M	1,5	2	2,4	4,8	0,85	7
FCF2S	2	2,5	2,7	5,4	1,0	9
FCF2M	2,5	3	3,6	6,6	1,25	11
FCF3	3	3,5	3,8	7,6	1,5	13
FCF4	4	4,5	4,9	9,8	1,9	16
FCF5	5	6	6,6	13,2	2,5	21
FCF6	6	6,5	7,2	14,4	2,7	23
FCF7	7	8	8,8	17,6	3,3	28
FCF8	8	9	9,9	19,8	3,7	32
FCF10	10	11	12,1	24,2	4,5	39
FCF12	12	13	14,2	28,4	5,4	46
FCF16	16	18	19,6	39,2	7,6	63







Copper zinc plated ferrule

Product no.	A	L
	mm	mm
FCZF1S	1-1,2	9,5
FCZF1M	1,5-2	9,5
FCZF3	3-3,5	14
FCZF4	4	16
FCZF5	5	24
FCZF6	6	22
FCZF8	8	27
FCZF10	10	37
FCZF11	11	44
FCZF12	12-13	48
FCZF14	14	51
FCZF16	16	60

INSULATION

When two different kind of metals make contact in the presence of water, it is likely that the one that is more prone to corrosion will suffer electrolytic corrosion. Since stainless-steel cables are often used in combination with other metals, electrolytic corrosion is a common problem for these types of constructions. A solution to this problem is covering part of the metal with insulation.

In industrial and architectural context, constructions are often exposed to rain and other elements. In that case, plastic washers and pin insulation strips can be applied to the construction in order to insulate the metal and prevent them from making contact.

Please note that insulation must be ordered together with the stainless hardware, in order to leave enough space to fit the insulation.

STAINLESS-STEEL WIRE NETS

Norseman Gibb stainless-steel wire nets can serve a wide range of purposes. They can be used for architecture, safety and protection in both recreational areas as well as on worksites. Some of its uses include zoo-enclosures, green-wall systems, architectural projects and many more purposes. Stainless-steel wire nets have an ultra-long lifespan in any enviroment. We are happy to inform you about the possibilities of using wire nets in your project.

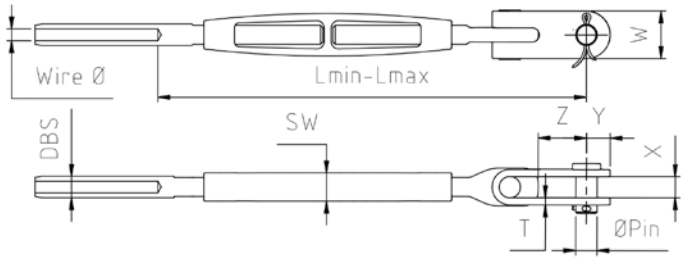
YACHT RIGGING

Norseman Gibb is dedicated to providing the right equipment for yachts, as well as offering professional advice. We have broad experience and expertise in the field and are therefore in close contact and cooperate with a range of rigging professionals and experienced yachtsmen. From dinghy to superyacht, we provide swaging services for every diameter of wire rope or compact strand. Our swage capacity reaches from 3 mm up to 28 mm.

Open body swage - toggle turnbuckle stainless-steel components with bronze chrome body

Product no.	Wire-Ø	DBS	Thread	Pin-Ø	W	X	Y	Z	SW	Lmin-Lmax	Nominal weight	MBL
	mm	mm	UNF	mm	mm	mm	mm	mm	mm	mm	kg	kg
NRSBSTF3	3	6,35	1/4"	6,4	15	7,5 ± 1,0	7,9	18,5	9,0	155 - 218	0,12	1200
NRSBSTF4	4	7,50	5/16"	7,9	20	9,0 ± 1,0	10,4	28,5	11,0	191 - 270	0,20	1710
NRSBSTF5S	5	9,11	5/16"	7,9	20	9,0 ± 1,0	10,4	28,5	11,0	193 - 270	0,21	2290
NRSBSTF5M	5	9,11	3/8"	9,5	25	11,0 ± 1,0	12,9	33,5	13,4	218 - 298	0,32	2660
NRSBSTF6S	6	12,55	3/8"	9,5	25	11,0 ± 1,0	12,9	33,5	13,4	226 - 316	0,39	3650
NRSBSTF6M	6	12,55	7/16"	11,0	25	13,0 ± 1,0	12,9	34,0	15,1	252 - 343	0,53	4500
NRSBSTF7S	7	14,30	7/16"	11,0	25	13,0 ± 1,0	12,9	34,0	15,1	250 - 353	0,53	4750
NRSBSTF7M	7	14,30	1/2"	12,7	30	14,0 ± 1,0	15,4	39,0	17,4	271 - 375	0,73	5650
NRSBSTF8S	8	16,13	1/2"	12,7	30	14,0 ± 1,0	15,4	39,0	17,4	274 - 384	0,76	5910
NRSBSTF8M	8	16,13	5/8"	12,7	30	14,0 ± 1,0	15,4	38,0	20,7	328 - 448	1,08	8450
NRSBSTF10S	10	17,85	5/8"	15,9	40	17,5 ± 1,0	20,6	39,9	20,7	327 -470	1,36	9275
NRSBSTF10M	10	17,85	3/4"	15,9	40	17,5 ± 1,0	20,6	37,0	25,4	376 - 526	1,91	9275
NRSBSTF12	12	20,00	3/4"	19,0	50	21,5 ± 1,0	25,6	53,5	25,4	399 - 561	2,17	10810
NRSBSTF14	14	25,00	7/8"	22,2	60	24,0 ± 1,0	30,6	67,5	29,8	474 - 668	3,83	16430
NRSBSTF16	16	28,20	1"	25,4	60	28,0 ± 1,0	30,6	64,0	43,0	530 - 686	5,91	21350
NRSBSTF19	19	34,50	1 1/8"	28,6	70	31,5 ± 1,0	35,6	72,0	46,0	623 - 878	8,53	28105
NRSBSTF22	22	40,50	1 1/4"	31,8	80	36,5 ± 1,0	40,6	82,0	51,8	625 - 810	11,38	35185
NRSBSTF26	26	46,20	1 1/2"	34,9	90	42,0 ± 1,0	47	95,0	62,5	699 - 886	16,30	42820

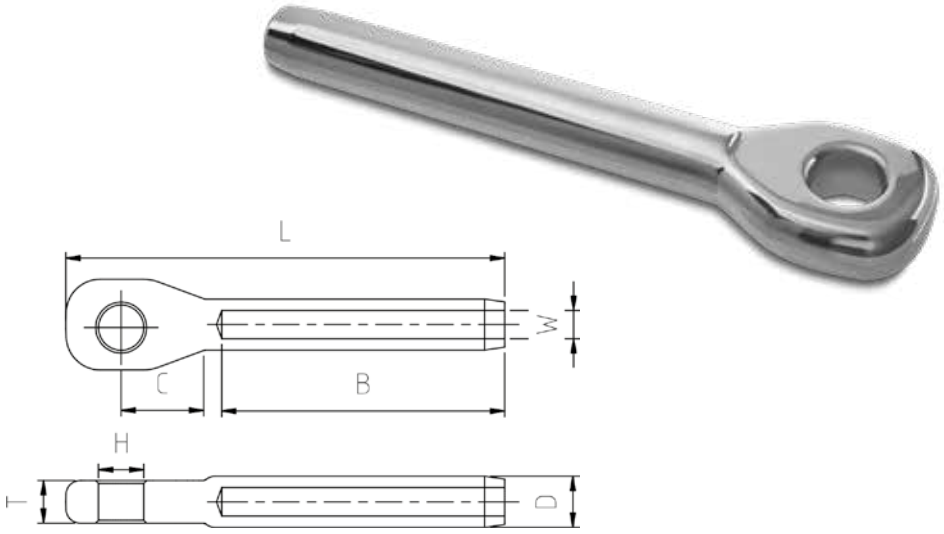
Machined bronze body, polished and chrome plated.

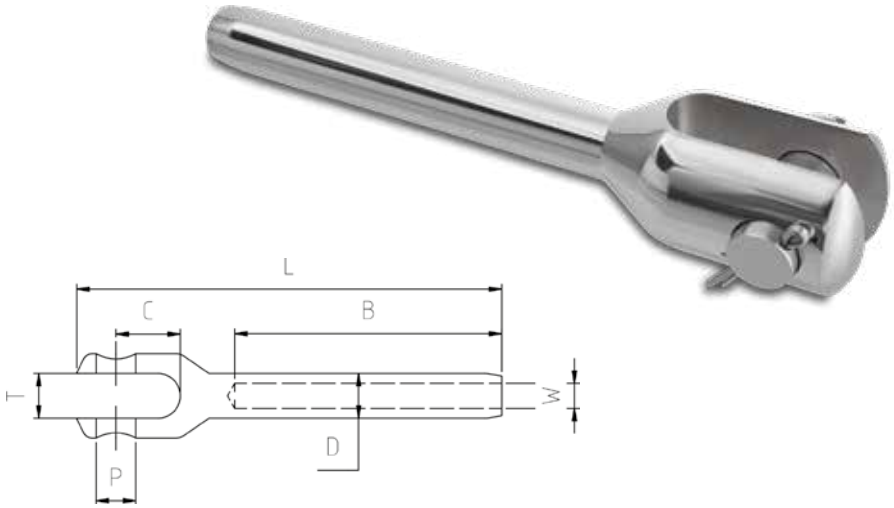


Fork swage terminal

Product no.	W	P	D	C	T	B	L	Nominal weight
	mm	mm	mm	mm	mm	mm	mm	g
NFS3	3	6	6,3	12,5	6,2	39	70	20
NFS4	4	8	7,5	17	7,9	45	83	36
NFS5	5	9,5	9,1	19	9,9	52	97	64
NFS6	6	11	12,5	22	10,9	64	113	142
NFS7	7	12	14,3	25	12,7	70	128	172
NFS8S	8	12	16,0	25	12,7	80	140	196
NFS8M	8	14	16,0	28	13,8	80	144,5	278
NFS10	10	16	18,0	32	15,8	100	174	376
NFS12	12	19	21,4	38	17,8	132	227	1097
NFS14	14	22	25,0	45	22,0	156	258	1105
NFS16	16	25	28,2	50	25,0	176	295,5	1683
NFS19	19	28	34,5	58	28,2	210	342	2580
NFS22	22	32	40,3	64	31,8	242	391	3611
NFS26	26	35	45,9	70	34,8	290	451,5	5019

Machined from solid bar, no welds.





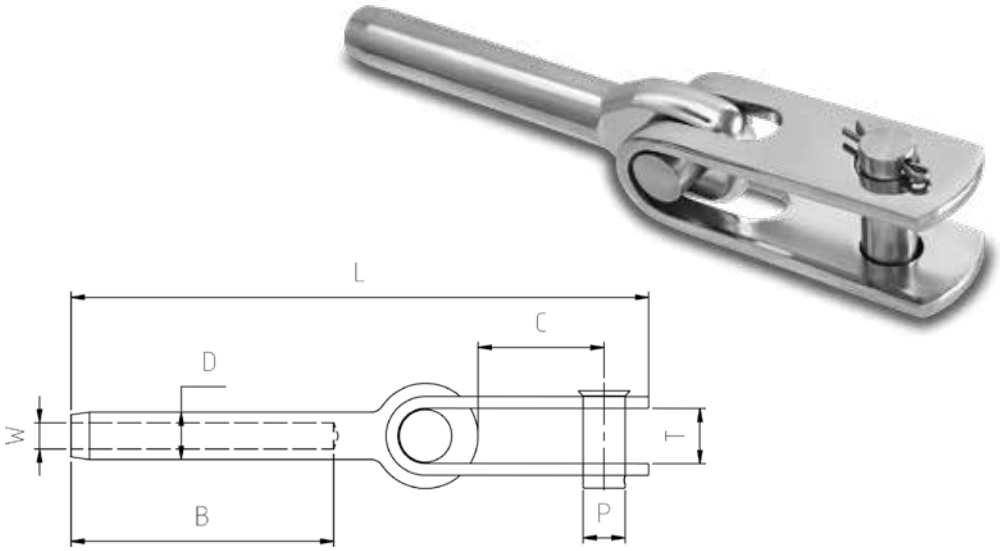
Eye swage terminal

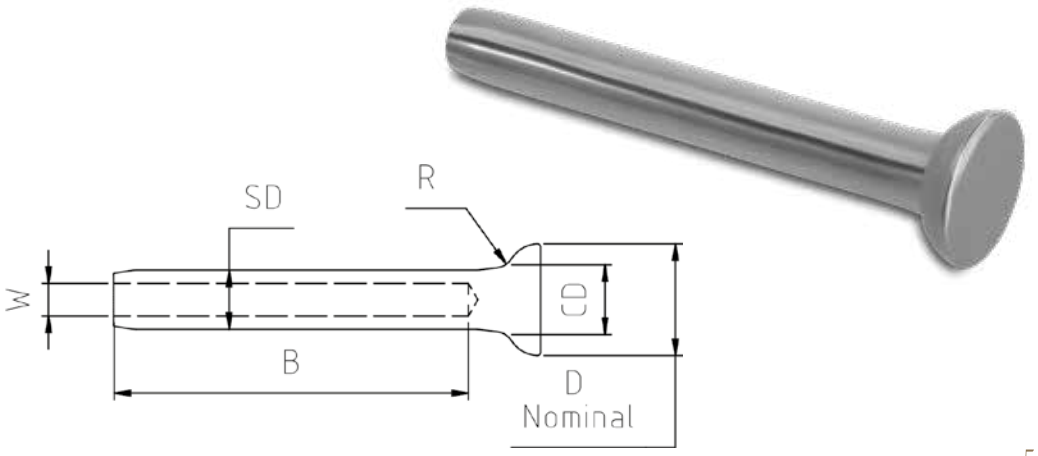
Product no.	W	H	B	D	C	T	L	Nominal weight
	mm	mm	mm	mm	mm	mm	mm	g
NES4	4	6,35	45	7,5	14	6,5	72	23
NES5	5	8,00	52	9,1	17	7,8	85	42
NES6S	6	9,53	64	12,5	20	9,5	103	100
NES6M	6	11,10	64	12,5	23	11,5	110	109
NES7	7	12,70	70	14,3	23	11,5	114	129
NES8S	8	12,70	80	16,0	23	11,5	123	152
NES8M	8	14,28	80	16,0	24	13,5	130	178
NES8L	8	16,00	80	16,0	29	15,0	134	202
NES10	10	16,00	100	18,0	29	15,0	155	245
NES12	12	19,05	132	21,4	34	17,5	197	462
NES14	14	22,20	156	25,0	40	21,5	235	721
NES16	16	25,40	176	28,2	46	23,5	264	1090
NES19	19	28,60	210	34,5	51	27,5	308	1780
NES22	22	32,00	242	40,3	58	31,0	356	2704
NES26	26	35,00	290	45,9	63	33,5	414	3855

Machined from solid bar, no welds.

Toggle fork swage terminal

Product no.	W	P	D	C	T	B	L	Nominal weight
	mm	mm	mm	mm	mm	mm	mm	g
NTFS3	3	6	6,3	14	8	39	84	25
NTFS4	4	8	7,5	18	9	45	103	45
NTFS5	5	9,5	9,1	21	11	52	111	89
NTFS6	6	11	12,5	25	13	64	146	230
NTFS7	7	12,7	14,3	27	15	70	168	271
NTFS8S	8	12,7	16,0	27	15	80	169	295
NTFS8M	8	16	18,0	36	19	100	212	569
NTFS10	10	16	18,0	36	19	100	212	569
NTFS12	12	19	21,4	45	22	132	278	1409
NTFS14	14	22	25,0	53	25	156	328	1912
NTFS16	16	25	28,2	62	28	176	364	2516
NTFS19	19	28	34,5	63	32	210	430	4147
NTFS22	22	32	40,3	76	35	242	496	6039
NTFS26	26	35	45,9	92	38	290	571	8428





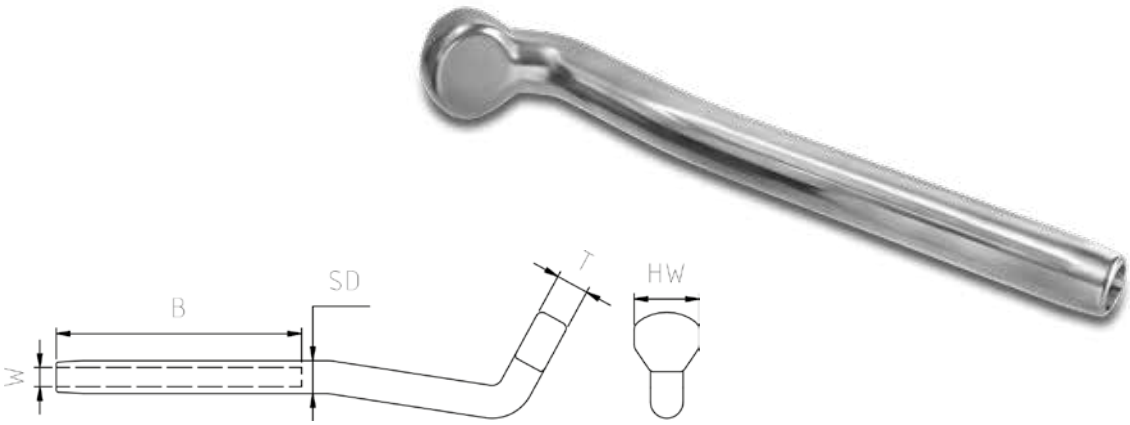
Stemball swage terminal

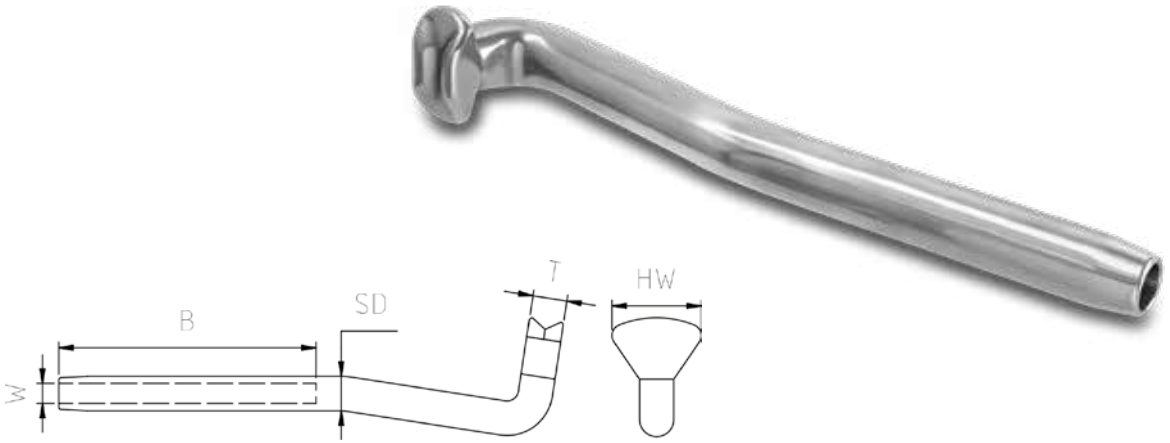
Product no.	W	D	B	R	SD	CD
	mm	mm	mm	mm	mm	mm
NSS3	3	12,5	39	6,4	6,3	6,8
NSS4	4	17	45	8,9	7,5	8,0
NSS5S	5	17	52	8,9	9,1	9,7
NSS5M	5	21	52	10,9	9,1	9,7
NSS6	6	21	64	10,9	12,5	13,4
NSS7S	7	21	70	10,9	14,3	15,3
NSS7M	7	27	70	13,9	14,3	15,3
NSS8	8	27	80	13,9	16,1	17,3
NSS10	10	31	100	15,8	17,8	19,1
NSS12	12	35	132	17,8	21,4	23,0

Machined from solid bar, no welds.

Mast shroud terminal

Product no.	W	T	B	SD	HW
	mm	mm	mm	mm	mm
NMST3	3	6,3	39	6,3	12
NMST4	4	7,5	45	7,5	16
NMST5	5	9,1	52	9,1	19
NMST6	6	12,5	64	12,5	22
NMST7	7	14,3	70	14,3	28
NMST8	8	16,0	80	16,0	30
NMST10	10	17,8	100	18,0	32
NMST12	12	21,4	132	21,4	38





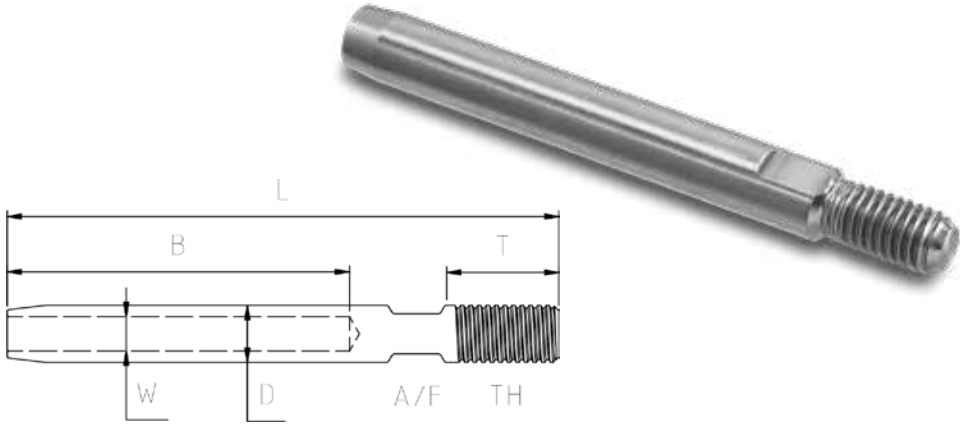
Mast T terminal

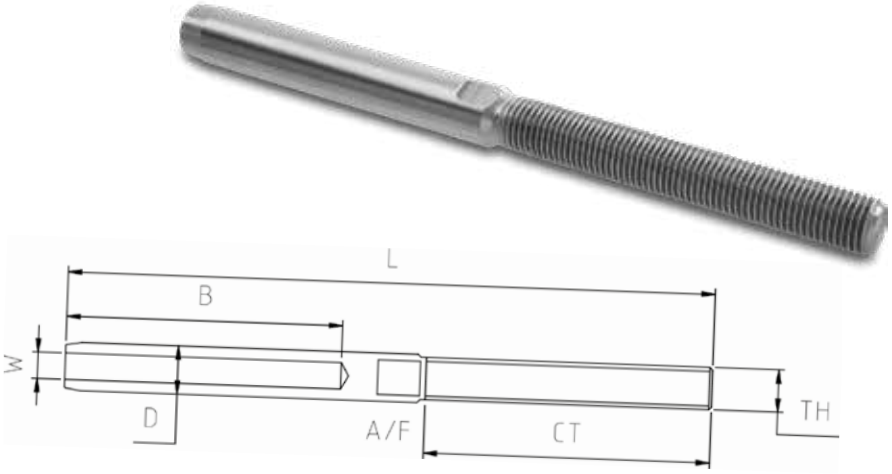
Product no.	W	T	B	SD	HW
	mm	mm	mm	mm	mm
NMTT3	3	6,3	39	6,3	16,6
NMTT4	4	9,0	45	7,5	17,5
NMTT5	5	11,1	52	9,1	20
NMTT6	6	14,3	64	12,5	28
NMTT7	7	14,3	70	14,3	28
NMTT8	8	17,8	80	16,1	32
NMTT10	10	17,8	100	17,8	32

Lifeline short stud

Product no.	W	TH	RH/LH	D	B	L	A/F
	mm			mm	mm	mm	mm
NLLS4	4	M8	RH	7,5	45	113	6
NLLS5	5	M8	RH	9,1	52	123	6

Product numbers are for RH thread. For LH thread add L to the product number (NLLS4L).





Lifeline long stud

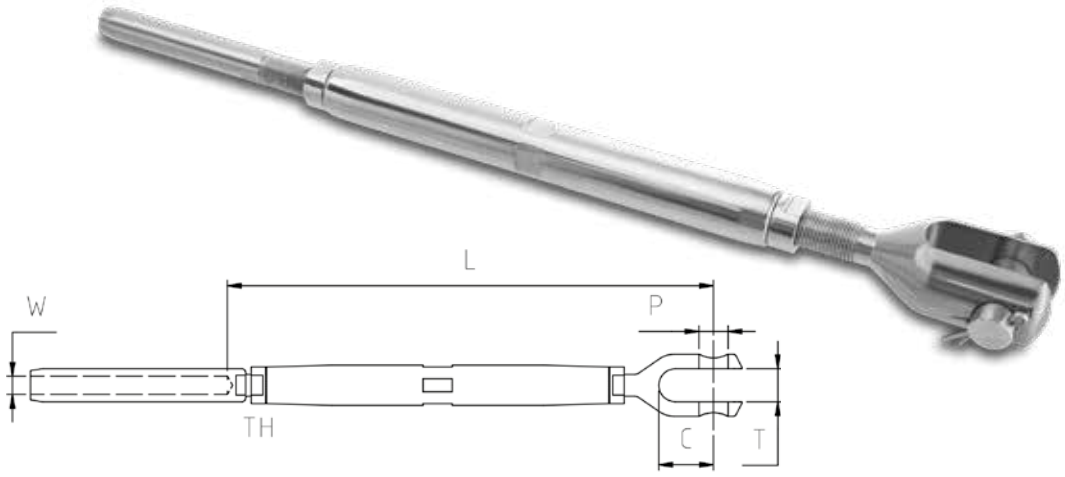
Product no.	W	TH	D	B	L	CT	A/F	Nominal weight
	mm		mm	mm	mm	mm	mm	g
NLLL4S	4	M6	7,5	45	105	47	6	33
NLLL4M	4	M8	7,5	45	113	54	6	36
NLLL5S	5	M8	9,1	52	122	54	8	54
NLLL5M	5	M10	9,1	52	135	68	8	60

Product numbers are for RH thread. For LH thread add L to the product number (NLLL4SL).

Lifeline rigging screw

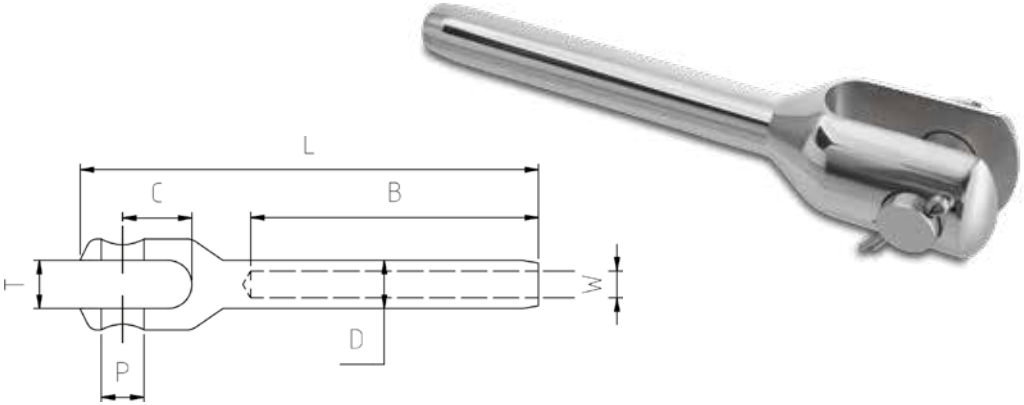
Product no.	W	TH	P	C	T	MIN L	MAX L	Nominal weight
	mm		mm	mm	mm	mm	mm	g
NLLR4S	4	M6	6,0	12,5	6,2	126,0	196,0	80
NLLR4M	4	M8	8,0	17,0	7,9	150,5	228,5	151
NLLR5S	5	M8	8,0	17,0	7,9	153,5	231,5	153
NLLR5M	5	M10	9,5	19,0	9,9	184,0	284,0	257

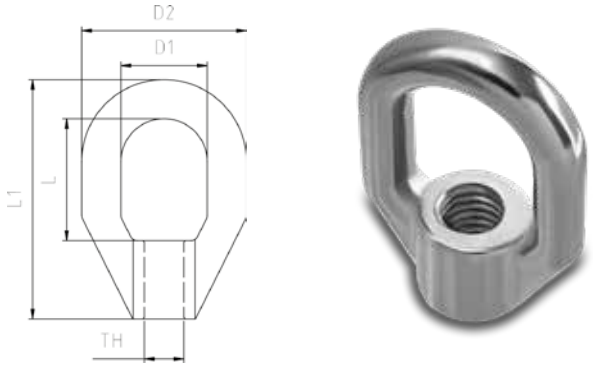
Machined from solid bar, no welds.



Lifeline fork swage terminal

Product no.	W	P	D	C	T	B	L	Nominal weight
	mm	mm	mm	mm	mm	mm	mm	g
NLLF4	4	8,0	7,5	17,0	7,9	45	83,0	36
NLLF5	5	9,5	9,1	19,0	9,9	52	97,0	64



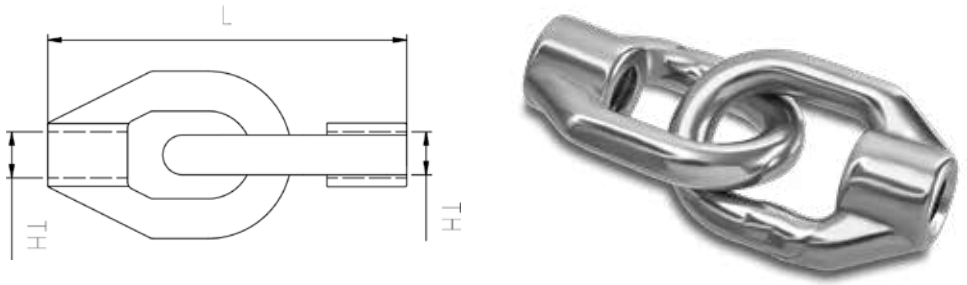


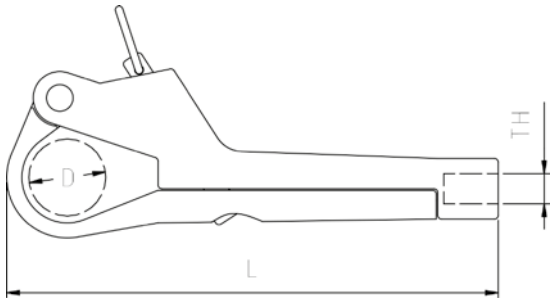
Lifeline single eye

Product no.	TH	L	L1	D1	D2
		mm	mm	mm	mm
FLLSE8	M8	19	37	15	27

Lifeline double eye

Product no.	TH	L
		mm
FLLDE8	M8	60





Lifeline pelican hook

Product no.	TH	L	D	MBL
		mm	mm	kg
FLLP6	M6	75	18,5	570
FLLP8	M8	100	27	1030
FLLP10S	M10	125	35	1590
FLLP10M	M10	144	35	1590
FLLP12	M12	150	39	1750

ROPES

Norseman Gibb supplies ropes for industrial, yachting and architectural use. Our ropes are specifically made to meet the highest of standards. The ropes we offer serve a variety of purposes, such as mooring ropes, racing and sailing ropes, as well as ropes for general use. The ropes sector is developing so quickly, that often stainless-steel wire rope is replaced by high performance ropes. The biggest advantages of high performance rope are its extremely high breaking strength, its flexibility and its ultra-light weight.

Dyneema rope coated / pre-stretched

Product no.	Diam.	Circum-ference	Approximate weight	MBL
	mm	inch	100m/kg	kg
RHPD3	3	3/8"	0,5	1414
RHPD4	4	1/2"	0,9	2179
RHPD5	5	5/8"	1,5	3330
RHPD6	6	3/4"	2,2	4328
RHPD8	8	1"	3,5	8027
RHPD10	10	1 1/4"	5,6	9500
RHPD12	12	1 1/2"	7,8	14500
RHPD14	14	1 3/4"	10,5	18100
RHPD16	16	2"	14,0	21100
RHPD18	18	2 1/4"	18,0	24300
RHPD20	20	2 1/2"	22,0	30850
RHPD22	22	2 3/4"	26,0	36000
RHPD24	24	3"	31,0	43700
RHPD26	26	3 1/4"	36,0	47700
RHPD28	28	3 1/2"	42,0	57750
RHPD30	30	3 3/4"	48,0	63400

Norseman high performance rope coated / pre-stretched

Product no.	Diam.	Circum-ference	Approximate weight	MBL
	mm	inch	100m/kg	kg
RHPU3	3	3/8"	0,5	1414
RHPU4	4	1/2"	0,9	2179
RHPU5	5	5/8"	1,5	3330
RHPU6	6	3/4"	2,2	4328
RHPU8	8	1"	3,5	8027
RHPU10	10	1 1/4"	5,6	9500
RHPU12	12	1 1/2"	7,8	14500
RHPU14	14	1 3/4"	10,5	18100
RHPU16	16	2"	14,0	21100
RHPU18	18	2 1/4"	18,0	24300
RHPU20	20	2 1/2"	22,0	30850
RHPU22	22	2 3/4"	26,0	36000
RHPU24	24	3"	31,0	43700
RHPU26	26	3 1/4"	36,0	47700
RHPU28	28	3 1/2"	42,0	57750
RHPU30	30	3 3/4"	48,0	63400

Available colors are gray and black. Can be custom made in any RAL color. Standard delivery on full coils.

Available in red, green, yellow and white. Can be custom made in any RAL color. Standard delivery on full coils.

Norseman high performance rope with 32-braided polyester cover

Product no.	Diam.	Circum-ference	Approximate weight	MBL
	mm	inch	100m/kg	kg
RHPUC6	6	3/4"	4,6	2179
RHPUC8	8	1"	8,3	3340
RHPUC10	10	1 1/4"	12,6	5163
RHPUC12	12	1 1/2"	16,7	9809
RHPUC14	14	1 3/4"	21,2	13500
RHPUC16	16	2"	27,0	18100

Norseman polyester rope double-braided

Product no.	Diam.	Circum-ference	Approximate weight	MBL
	mm	inch	100m/kg	kg
RPD6	6	3/4"	3,4	1250
RPD8	8	1"	4,6	2200
RPD10	10	1 1/4"	7,5	3000
RPD12	12	1 1/2"	9,7	4350
RPD14	14	1 3/4"	14,5	5800
RPD16	16	2"	17,8	5339
RPD18	18	2 1/4"	22,9	6100
RPD20	20	2 1/2"	30,0	7400

Available colors are red, blue, green and black. Can be custom made in any RAL color. Standard delivery on full coils.

Available in black, navy blue, carbon and brass. Can be custom made in any RAL color. Standard delivery on full coils or customized on order with leather covered spliced eyes, colored whipping etc.

Norseman polyester mooring rope double-braided

Product no.	Diam.	Circum-ference	Approximate weight	MBL
	mm	inch	100m/kg	kg
RPM6	6	3/4"	3,0	1129
RPM8	8	1"	4,4	2259
RPM10	10	1 1/4"	8,0	2608
RPM12	12	1 1/2"	10,1	3242
RPM14	14	1 3/4"	13,7	3775
RPM16	16	2"	20,5	5339
RPM18	18	2 1/4"	26,0	6100
RPM20	20	2 1/2"	30,0	7400
RPM22	22	2 3/4"	37,3	8900
RPM24	24	3"	43,4	10400
RPM26	26	3 1/4"	51,0	13500
RPM28	28	3 1/2"	59,0	16620
RPM30	30	3 3/4"	68,0	18960
RPM32	32	4"	78,0	21400
RPM36	36	4 1/2"	99,0	26900
RPM40	40	5"	121,0	33039
RPM44	44	5 1/2"	154,0	39667
RPM48	48	6"	184,0	46907

GENERAL SALE AND DELIVERY CONDITIONS

General

These terms and conditions apply to all agreements and offers for the delivery of goods and apply to all contractual relationships in which we perform services, assignments or accomplish a work.
Agreements that deviate from the conditions are only binding for us if we have explicitly confirmed this in writing.
General (purchase) conditions of our client do not apply, unless we have explicitly confirmed this in writing.

Quotation

All our quotations are non-binding and based on any information provided by our client when requesting.
Unless stated otherwise, all prices include packaging, but exclude VAT.
Deviations from offers made will only be binding for us if they have been confirmed or approved by us in writing.
The price quoted is based on the purchase price and other cost factors. If one of these unforeseeable cost price items is increased after the offer but before delivery, we have the right to pass on those increases in all reasonableness.
Without prejudice to the general applicability of the provisions of the previous paragraph, this applies in particular to a change in import or export duties, any license fees, taxes and / or the exchange rate of the euro against the foreign currency in which we purchased the goods.
An order received is binding for us, unless we have notified the client within 14 days of receipt that the order is not accepted.
If a quotation on our part does not state otherwise in so many words, a quotation on our part will always be made without obligation in the sense that even after timely and complete acceptance of the quotation it can still be revoked for 12 full and normal working days after receipt of the acceptance. A quotation on our part can only be accepted integrally and unchanged.

Deliveries

Unless agreed otherwise, all deliveries are for the account and risk of the client and by a means of transport to be determined by us.
The specified delivery time is only approximate. If the agreed delivery time has been exceeded, the client is authorized to set a reasonable further period for delivery by registered letter. Only after exceeding that term can we be held liable for exceeding the term.
Insofar as not agreed in writing, all our deliveries and services are performed and delivered in accordance with the information provided by the customer.
We are always entitled to make partial deliveries.

Circumstances beyond our control

Circumstances beyond our control is understood to mean: any circumstance independent of our will, which temporarily or permanently prevented compliance with the agreement.
In particular, circumstances beyond our control, insofar as this is not already included in paragraph 1, applies to war, danger of war, civil war, riot, strike, transport difficulties, fire and other serious disruptions in our company or that of our suppliers.
When circumstances beyond our control occur, we have the right to extend the term of delivery by the duration of these circumstances or to dissolve the agreement, insofar as it has not yet been performed, without our being obliged in any form whatsoever to pay any compensation, except by virtue of the provisions of art. 78 of book 6 of the Civil Code.

Payment

Unless agreed otherwise, payments must be made within 30 days after the invoice date, either in cash or into an account to be designated by us and without any deduction or set-off.
We are entitled at all times to request advances on goods to be delivered or services to be provided.
When a part of an order is ready and delivered, the invoice sent for it must be paid in the normal manner within the period specified in paragraph 1.
If payment is not made within the agreed period, the client is deemed to be in default by operation of law and we are entitled, without any notice of default, to payment of interest equal to the statutory interest per year from the due date.
All reasonable costs incurred, falling on the collection of the claim, both judicial and extrajudicial costs are always equal to 15% of the overdue amount.

Retention of title

After delivery, delivered goods remain our property until the moment that the client has fully complied with his obligations arising from the relevant agreement.
The client undertakes now and then to fully cooperate in order to give us the opportunity to retrieve the relevant goods from him.

Warranty

Unless agreed otherwise, for goods delivered by us the warranty provisions established by our suppliers apply.
The fulfillment of the warranty obligations applies as the only and general compensation:
any further liability, for whatever reason, is explicitly excluded.
All warranty obligations expire in the case:

- post-processing, changes or repairs were carried out without our prior permission;
- the delivered goods are not properly maintained in the usual manner;
- the delivered goods have been used improperly or not in accordance with the destination.

Liability

Subject to warranty claim and except in the case of intent or gross negligence on our part, all liability on our part for damage as a result of defects in or on goods sold, both by the client and by third parties, is expressly excluded.
Apart from intent or gross negligence, we are also not liable for errors made by our staff or by persons engaged by us in the context of the implementation of the agreement.
Except in the case of explicitly written confirmation, we are in no way bound by agreements with subordinate members of our staff.
The images and descriptions are as much as possible in accordance with reality. However, deviations are expressly reserved. All dimensions, weight specifications and in particular mentioned safe or break loads are only indicative and in the event of a calamity we are not liable. We do not undertake to add user and / or assembly instructions to the goods supplied by us. The buyer is expected to be aware of the appropriate use and applications as well as a proper method of assembly of the delivered. We are not liable for deviations, printing and writing errors.

Complaints

Complaints must be made within 8 days after receipt of the goods, or within the same period, after a defect is or can reasonably be discovered.
Complaints must be submitted in writing.
If the period referred to in paragraph 1 of this article is exceeded, the right to file complaints expires.

Cancellation

In the event of cancellation of the agreement by the client due to any cause whatsoever, we reserve the right to demand compliance.
If we accept a cancellation, we are entitled to charge the client all costs incurred until then, as well as a reasonable percentage of the amount involved in the agreement with regard to loss of profit, all with a minimum of 10%.
Returns are only accepted after written approval from us and are credited with value. The value depends, among other things, on whether the returned products are still normally present in the collection, packaging is correct, etc.

Applicable law / disputes

All agreements concluded by us are exclusively governed by Dutch law.
All disputes arising from agreements concluded by us will, insofar as possible under the relevant legal provisions, fall within the competence of the competent court of our place of business.

NORSEMAN
GIBB®

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