

# Stainless Steel Wire Rope

- Corrosion Resistant,
- Rust Resistant,
- Heat Resistant.



## Construction 7 x 7

Nominal Diameter of Wire Rope		Minimum Breaking Strength				Approximate Weight	
		Grade SB (SUS 304)		Grade SA (SUS 316)			
in.	mm	lbs.	kg	lbs.	kg	lbs./100ft	kg/100m
1/16	1.5	480	170	360	150	0.720	0.952
5/64	2.0	660	290	570	260	1.13	1.68
3/32		920		820		1.59	
7/64	2.5	1,260	460	1,130	400	2.21	2.64
1/8	3.0	1,670	660	1,480	585	2.72	3.79
9/64	3.5	2,020	900	1,800	795	3.58	5.33
5/32		2,600	1,140	2,300	1,040	4.52	6.73
3/16	4.5	3,650	1,480	3,200	1,310	6.36	8.50
	5.0		1,790		1,620		10.5
7/32	5.5	4,890	2,220	4,200	1,910	8.40	12.5
	6.0		2,570		2,330		15.1
1/4	8.0	6,200	4,500	5,300	3,710	11.2	26.9
5/16							
3/8	9.0	13,800	5,620	10,900	5,480	25.5	42.1
	10.0		6,930				
7/16	12.0	18,200	9,700	18,800	7,890	35.6	58.5
	1/2		23,100		23,500		
9/16	14.0	29,100	11,300	23,500	10,700	55.4	82.5
	5/8		37,200		30,400		
3/4	16.0	52,200	16,900	42,500	13,800	103	108
	18.0		21,700		17,700		136
	20.0		26,000		21,100		168



## Construction 7 x 19

Nominal Diameter of Wire Rope		Minimum Breaking Strength				Approximate Weight	
		Grade SB (SUS 304)		Grade SA (SUS 316)			
in.	mm	lbs.	kg	lbs.	kg	lbs./100ft	kg/100m
3/32	2.5	870	435	770	390	1.59	2.63
7/64		1,190		1,040	565	2.18	3.78
1/8	3.0	1,560	835	1,370	745	2.81	5.28
9/64		1,890		1,660	835	3.54	5.28
5/32	4.0	2,420	1,090	2,140	970	4.52	6.71
	4.5		1,390		1,250		8.48
3/16	5.0	3,430	1,700	3,100	1,520	6.42	10.5
7/32			4,600		4,100		1,860
	6.0		2,460		2,190		15.2
1/4	8.0	6,040	4,240	5,420	3,780	11.4	26.9
5/16							
3/8	9.0	13,500	5,450	11,600	5,630	25.6	41.9
	10.0		6,580				
7/16	12.0	17,900	9,480	18,700	7,830	35.4	58.4
1/2	14.0	22,700	12,600	22,700	10,300	44.0	82.1
9/16			16,100		28,200		12,800
5/8	16.0	35,400	20,700	40,700	16,400	72.6	136
	18.0						
3/4	20.0	50,000	24,900	54,000	20,200	103	168
7/8			30,100		25,400		212

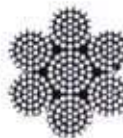


# STAINLESS STEEL WIRE ROPES

6×37 FC



7×37



6×37 IWRC



Dia. of Wire Rope		Minimum Breaking Strength				Approximate Weight		Minimum Breaking Strength				Approximate Weight	
		GradeB(SUS304)		GradeA(SUS316)				GradeB(SUS304)		GradeA(SUS316)			
		Inch	mm	(AISI 304)		(AISI 316)		Lb./Mft.	kg/1000m	(AISI 304)		(AISI 316)	
1/8	3.2	1,370	620	1,150	520	25	37	1,520	690	1,320	600	28	42
9/64	3.5	1,630	740	1,370	620	30	44	1,830	830	1,590	720	34	50
	4.5	2,710	1,230	2,270	1,030	49	73	3,200	1,370	2,600	1,180	56	83
3/16	4.8	3,090	1,400	2,580	1,170	56	83	3,020	1,560	2,980	1,350	63	94
	4.0	2,140	970	1,810	820	38	57	2,380	1,080	2,050	1,930	44	65
	5.0	3,350	1,520	2,580	1,170	60	90	3,730	1,690	3,220	1,460	69	102
7/32	5.5	4,150	1,880	2,480	1,580	74	110	4,610	2,090	3,990	1,810	83	124
	6.0	4,830	2,190	4,040	1,830	87	129	5,380	2,440	4,630	2,100	99	147
1/4	6.3	5,360	2,430	4,540	2,060	97	144	6,020	2,730	5,180	2,350	109	162
9/32	7.0	6,440	2,920	5,510	2,500	118	176	7,210	3,270	6,280	2,850	134	200
5/16	8.0	8,290	3,760	7,190	3,260	155	230	9,220	4,180	8,180	3,710	176	262
	9.0	10,400	4,730	9,110	4,130	196	291	11,500	5,220	10,300	4,650	222	331
3/8	9.5	11,600	5,270	10,200	4,630	219	326	12,900	5,850	11,500	5,220	248	369
	10.0	12,800	5,800	11,200	5,100	241	359	14,200	6,440	12,700	5,740	275	409
7/16	11.0	15,700	7,100	13,800	6,280	292	434	17,400	7,880	15,500	7,020	333	495
	12	18,300	8,300	16,200	7,340	247	517	20,300	9,210	18,100	8,200	395	588
1/2	12.5	19,800	9,000	17,600	7,970	377	561	21,900	9,920	19,600	8,900	429	639
9/16	14.0	24,700	11,200	22,000	9,990	473	704	27,300	12,400	23,200	10,500	539	802
5/8	16.0	32,000	14,500	27,600	12,500	618	920	35,500	16,100	29,100	13,200	704	1,047
	18.0	40,400	18,300	34,400	15,600	780	1,160	44,500	20,200	36,600	16,600	890	1,325
1/4	19.0	45,000	20,400	38,400	17,400	870	1,295	49,600	22,500	40,800	18,500	992	1,476
	20.0	49,400	22,400	42,100	19,100	965	1,438	54,700	24,800	45,200	20,500	1,102	1,640
7/8	22	58,400	26,500	45,200	20,500	1,169	1,740	64,600	29,300	53,800	24,400	1,331	1,980
	24	69,700	31,600	59,500	27,000	1,391	2,070	75,000	34,000	63,900	29,000	1,586	2,360
	25	75,600	34,300	63,900	29,000	1,505	2,240	81,600	37,000	69,500	31,500	1,720	2,560

6×S(19) FC



6×W(19) FC



JIS No.12 6×Fi(25) FC



6×S(19) IWRC



6×W(19) IWRC



JIS No.14 6×Fi(25)



Dia. of Wire Rope		Minimum Breaking Strength				Approximate Weight		Minimum Breaking Strength				Approximate Weight	
		GradeB(SUS304)		GradeA(SUS316)				GradeB(SUS304)		GradeA(SUS316)			
		Inch	mm	(AISI 304)		(AISI 316)		Lb./Mft.	kg/1000m	(AISI 304)		(AISI 316)	
5/32	4.0	2,230	1,010	1,960	890	137	62	2,560	1,160	2,250	1,020	152	69
3/16	5.0	3,480	1,580	3,040	1,380	214	97	3,990	1,810	3,480	1,580	238	171
1/4	6.3	5,620	2,550	4,740	2,150	337	153	6,440	2,920	5,420	2,460	377	171
5/16	8.3	8,530	3,870	7,520	3,410	545	247	9,770	4,430	8,600	3,900	606	275
3/8	9.0	10,800	4,910	9,530	4,320	690	313	12,400	5,620	10,900	4,950	767	348
13/32	10.0	13,300	6,040	11,300	5,130	851	386	15,300	6,920	12,900	5,870	948	430
7/16	11.2	16,300	7,390	13,400	6,080	1,067	484	18,700	8,460	15,300	6,960	1,191	540
15/32	12.0	19,000	8,650	15,700	7,110	1,226	556	21,800	9,900	18,000	8,140	1,365	619
1/2	12.5	20,400	9,250	16,300	7,400	1,330	603	23,400	10,600	18,700	8,470	1,480	672
9/16	14.0	25,600	11,600	20,500	9,290	1,669	757	29,300	13,300	23,400	10,600	1,859	843
5/8	16.0	32,200	14,600	25,800	11,700	2,180	988	36,800	16,700	29,500	13,400	2,430	1,100
3/4	18.0	40,800	18,500	32,200	14,600	2,760	1,250	46,700	21,200	36,800	16,700	3,060	1,390
13/16	20.0	49,800	22,600	40,100	18,200	3,400	1,540	57,100	25,900	45,900	20,800	3,800	1,720
7/8	22.4	60,200	27,300	46,300	21,000	4,300	1,940	69,000	31,300	52,900	24,000	4,760	2,160
15/16	24.0	70,100	31,800	55,100	25,000	4,900	2,220	80,300	36,400	63,000	28,600	5,470	2,480
1	25.0	76,100	34,500	60,000	27,200	5,310	2,410	87,100	39,500	68,600	31,100	5,900	2,690



# STAINLESS STEEL WIRE ROPE

Architects and engineers are increasingly aware of the benefits provided by stainless steel – it's good looks well matched to today's high-tech structures, it's long life and low maintenance, it's strength and cleanliness. All factors allowing both the structural and the aesthetic requirements of the design to be realized.

NORSEMAN GIBB specialize in a wide range of stainless steel cables and their associated terminations and tensioners. 316 grade material is used throughout for maximum corrosion resistance.

Cable systems are suitable for applications such as balustrading infill, tension members in roof trusses, catenary wires and safety wires. As a guide 3mm, 4mm, or 5mm diameters are normally selected for balustrading

and 8mm diameter for handrails and safety wires. Tension members may be specified according to the strength and stretch requirements of the application.

Cable and fittings from 2.5mm – 26mm diameter are stocked. Larger sizes are available to order. Where quantities are sufficient coloured plastic covered ropes can be offered.

We are always willing to assist in developing new applications or providing special fittings in addition to the standard range.

The commonest assembly, illustrated below, can be achieved by two alternative systems, the cost effective swage terminal or the convenient swageless system. Any combination of the two can be specified.



## SWAGE TERMINATIONS

Must be fitted by a suitable machine. NORSEMAN GIBB can supply made up assemblies to your requirement, thus minimising on-site labour costs. Accurate dimensions for manufacture must be supplied.

## SWAGELESS TERMINATIONS

These are hand fitted without the use of special tools. We can supply a package of wire and fittings for you to assemble on site, avoiding costly mistakes due to incorrect dimensions and allowing installation through intermediate stanchions or round corners.

Whether you choose swage or swageless fittings you will need to tension the wire. We offer an extensive range of tensioners for all requirements. A rigging screw is normally selected but in some cases the economical alternative of a threaded stud terminal with a back nut may be suitable.

## CHOOSING WIRE

Conventional 1 x 19 strand is the usual choice for balustrading and general purpose suspension applications. It is not flexible.

DYFORM 1 x 19 is a strand with higher strength and much better resistance to stretch than conventional 1 x 19. Please ask for further technical information.

7 x 19 is a flexible wire rope, chosen for applications where the cable must pass round a bend or angle. It has more stretch than 1 x 19.

7 x 7 gives greater strength than 7 x 19 but is more flexible than 1 x 19. 8mm 7 x 7 is selected for personnel safety wires.

## WIRE ROPE & STRAND

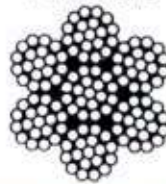
CONVENTIONAL  
1 x 19 STRAND



DYFORM  
1 x 19 STRAND



7 x 19 ROPE



7 x 7 ROPE



DIA	MASS	MINIMUM BREAKING LOAD	MASS	MINIMUM BREAKING LOAD	MASS	MINIMUM BREAKING LOAD	MASS	MINIMUM BREAKING LOAD
mm*	Kg/100m	Kgf	Kg/100m	Kgf	Kg/100m	Kgf	Kg/100m	Kgf
3.0	4.49	720	-	-	3.34	510	3.40	545
4.0	7.81	1280	-	-	5.94	907	6.05	968
5.0	12.2	2000	13.5	2440	9.29	1420	9.46	1510
6.0	17.6	2880	19.4	3550	13.4	2040	13.6	2180
7.0	23.9	3550	26.0	4910	18.2	2780	18.5	2970
8.0	31.2	4640	34.5	6150	23.8	3630	24.2	3870
10.0	48.8	7250	54.0	9770	37.2	5670	-	-
11.0	59.1	8770	68.0	12100	-	-	-	-
12.0	70.3	10400	80.7	14400	53.5	8160	-	-
14.0	95.7	14180	115	19300	-	-	-	-
16.0	125	18560	147	25600	-	-	-	-
19.0	176	21620	206	32000	-	-	-	-
22.0	236	29070	-	-	-	-	-	-
26.0	330	40600	-	-	-	-	-	-

\* INTERMEDIATE INCH SIZES ALSO AVAILABLE