

6

REELS AND ROPES

21.12 high-resistance anti-twisting steel rope



Anti-twisting galvanised steel rope specifically designed for stringing operations. Made up of 12 braided strands. High resistant to break, antitwisting, flexible, safe and easy to handle. The linear contact between the braided strands grants a low stress on the rope. Supplied wound up on steel or wooden reels.

OPTIONAL

- 146.2 Spliced eyes at both the ends.
146.3 Clamped eyes at both the ends.

	Nominal diameter	Construction	Breaking load	Weight	Standard lengths (*)
	mm	no. strands	kN	kg/m	m
21.12.08	8	12	44	0,22	1000
21.12.10	10	12	72	0,35	1000
21.12.13	13	12	105	0,55	1000
21.12.16	16	12	163	0,80	1000
21.12.18	18	12	235	1,07	800
21.12.20	20	12	268	1,24	1000
21.12.22	22	12	330	1,56	900
21.12.24	24	12	380	1,76	800
21.12.28	28	12	479	2,57	600
21.12.30	30	12	480	3,12	500

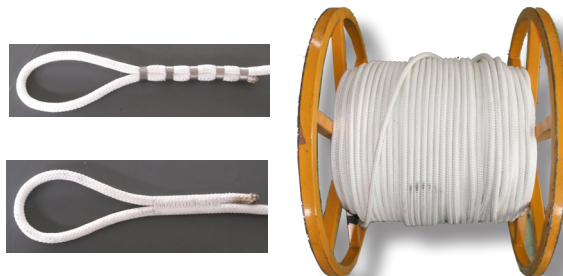
(*) other lengths on request

22...1

Pilot rope made of an external polyester mesh stocking and a hi-tenacity nylon core. Double torsion. Highly resistant to wear and UV rays. white colour. Supplied wound up on wooden reels or in coils.

OPTIONAL

- Clamped eyes with metallic collars at the ends (note: the clamped eyes have breaking load 30-35% lower than the rope).
- Sewn eyes (note: available up to Ø18 mm. The breaking load of the clamped eyes is the same as the breaking load of the rope).



	Nominal diam.	Elongation under tension		Breaking load	Weight	Standard lengths				
	mm	at 10% BL ⁽¹⁾	at 30% BL ⁽²⁾			m				
22.06.1	6	4%	7,5%	750	0,027	500	1000	1500	2000	3000
22.08.1	8	4%	7,5%	1.200	0,045	500	1000	1500	2000	3000
22.10.1	10	4%	7,5%	2.000	0,073	500	1000	1500	2000	3000
22.12.1	12	4%	7,5%	3.500	0,115	500	1000	1500	2000	3000
22.14.1	14	4%	7,5%	4.300	0,142	500	1000	1500	2000	
22.16.1	16	4%	7,5%	5.000	0,195	500	1000	1500	2000	
22.18.1	18	4%	7,5%	5.800	0,240	500	1000	1500		
22.20.1	20	4%	7,5%	6.500	0,295	500	1000	1500		
22.22.1	22	4%	7,5%	8.300	0,350	500	900			
22.24.1	24	4%	7,5%	9.500	0,410	500	800			

(¹) elongation rate at 10% of breaking load (²) elongation rate at 30% of breaking load

22...2

Pilot rope made of polypropylene and polyester hi-tenacity 12-fuses mesh. Light-weight, waterproof and UV resistant. Easy to splice without any special tool. Green colour. Supplied wound up on wooden reels or in coils

OPTIONAL

- Hand-spliced ends.



	Nominal diam.	Elongation under tension (at 50% BL)	Breaking load	Weight	Standard lengths
	mm	%			
22.10.2	10	5%	1.500	0,040	1000
22.12.2	12	5%	2.300	0,060	1000
22.14.2	14	5%	2.800	0,075	1000
22.16.2	16	5%	3.300	0,088	1000
22.18.2	18	5%	4.500	0,120	1000
22.20.2	20	5%	5.500	0,150	1000
22.22.2	22	5%	6.200	0,165	800
22.24.2	24	5%	8.500	0,240	800

nylon ropes

23...P

Rope with Dyneema-core and polyester covering.

Supplied winded up on wooden reels, or in coils.
(n request, provided on metal reels opt. 04)

OPTIONAL

- 01 - Clamped eyes with metallic collars at the ends (note: the clamped eyes have breaking load 30-35% lower than the rope).
- 02 - Eye hand-spliced.
- 03 - Head stocking-grip with eye.
- 04 - Steel reel Ø 1100, 1400 or 1600 mm.



	Nominal diam. mm	Elongation under tension %	Breaking load daN	Weight kg/m	Standard lengths m			
23.05.P	5	3%	950	0,020	500	1000	1500	2000 3000
23.06.P	6	3%	1.400	0,025	500	1000	1500	2000 3000
23.08.P	8	3%	2.800	0,040	500	1000	1500	2000 3000
23.10.P	10	3%	3.800	0,065	500	1000	1500	2000 3000
23.12.P	12	3%	5.800	0,095	500	1000	1500	2000
23.14.P	14	3%	7.600	0,115	500	1000	1500	2000
23.16.P	16	3%	10.500	0,155	500	1000		

(²) elongation rate at 8% of breaking load

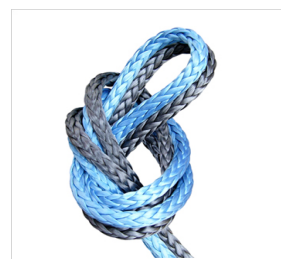
23...D

Dyneema rope totally high resistance.
Good resistance to abrasion.

Supplied winded up on wooden reels, or in coils.
(on request, provided on metal reels opt. 04)

OPTIONAL

- 01 - Clamped eyes with metallic collars at the ends (note: the clamped eyes have breaking load 30-35% lower than the rope).
- 02 - Eye hand-spliced.
- 03 - Head stocking-grip with eye.
- 04 - Steel reel Ø 1100, 1400 or 1600 mm.



	Nominal diam. mm	Elongation under tension (2%) %	Breaking load daN	Weight kg/m	Standard lengths m			
23.06.D	6	3%	3.00	0,02	500	1000	1500	2000 3000
23.08.D	8	3%	4.800	0,03	500	1000	1500	2000 3000
23.10.D	10	3%	8.200	0,05	500	1000	1500	2000 3000
23.12.D	12	3%	10.000	0,07	500	1000	1500	2000
23.14.D	14	3%	14.000	0,08	500	1000	1500	2000
23.16.D	16	3%	17.000	0,12	500	1000	1500	2000
23.18.D	18	3%	22.000	0,17	500	800	1000	
23.20.D	20	3%	26.500	0,20	500	800	1000	

EQUIPMENT

bright steel rope



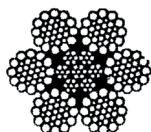
C02...AC

Bright steel rope 216 wires + steel core. Construction 6 (14+7/7+7+1) WS+WR. Right and left crossed. UNI 7297-74. Resistance of wires: 180 kg/mm².

OPTIONAL

- Galvanization

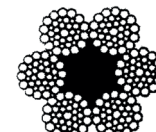
Nominal diameter	Wires diameter	Breaking load	Weight
mm	mm	kN	kg/m
6	0,38	27,2	0,15
8	0,50	47,3	0,28
10	0,62	75	0,43
11	0,68	89	0,52
12	0,75	108	0,62
14	0,77	131	0,82
16	0,88	168	1,07
18	0,99	220	1,35
20	1,10	270	1,68
22	1,22	320	2,03
24	1,33	380	2,40
26	1,44	450	2,83
28	1,55	504	3,30
30	1,66	600	3,80
32	1,77	670	4,33



C02...AL

Bright steel rope 216 wires + textile core. Construction 6 (14 + 7/7 + 7 + 1) WS + FC. Right crossed. UNI 7297-74. Resistance of wires: 180 kg/mm².

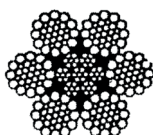
Nominal diameter	Wires diameter	Breaking load	Weight
mm	mm	kN	kg/m
6	0,33	21,5	0,14
8	0,44	38	0,24
10	0,57	60	0,38
11	0,63	72,5	0,46
12	0,68	86	0,55
14	0,80	120	0,74
16	0,90	158	0,96
18	1,00	200	1,20
20	1,12	248	1,49
22	1,24	299	1,82
24	1,34	350	2,14
26	1,43	410	2,48
28	1,55	490	2,99
30	1,66	569	3,45



C02...AR

Bright steel rope 216 wires "compacted strands", high resistance, with metal core. Resistance of wires: 220 kg/mm²

Nominal diameter	Wires diameter	Breaking load	Weight
mm	mm	kN	kg/m
10	0,59	90,2	0,45
11	0,66	111	0,55
12	0,72	132	0,67
13	0,78	153	0,78
14	0,84	176	0,90
16	0,96	240	1,18
18	1,08	294	1,48
20	1,20	367	1,85
22	1,32	443	2,25
24	1,41	525	2,50
26	1,53	613	3,04
28	1,64	704	3,64
30	1,76	809	4,20



C02...LR

Bright steel rope 133 wires. Construction 19x7. Lang lay or regular lay. Resistance of wires 200 kg/mm².

Rope diam.	Wires diameter	Sect.	Breaking load		Weight
mm	mm	mm ²	kN	kN ⁽¹⁾	kg/m
Lang lay					
6	0,38	16,5	26	26	0,15
8	0,51	29,3	48,1	46,1	0,27
10	0,64	45,7	72,1	72,1	0,41
11	0,70	55,3	87,2	87,2	0,50
12	0,76	65,8	104	104	0,60
13	0,83	77,3	122	122	0,70
14	0,89	89,6	141	141	0,81
16	1,02	117	185	185	1,06
18	1,15	148	234	234	1,34
Regular lay					
20	1,27	183	288	281	1,66
22	1,40	221	349	340	2,01
24	1,53	263	415	405	2,39
26	1,65	309	487	475	2,81



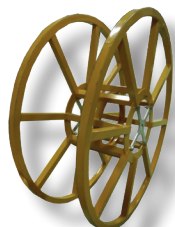
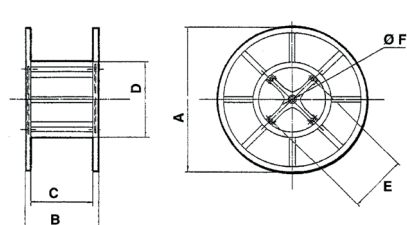
(¹)galvanised type

F162

Welded and painted steel reel, complete with central dials and bolts.

OPTIONAL

- 01. Total galvanization.
- 02. Additional pair of standard dials.
- 03. Pair of dials equipped with ball bearings.
- 04. Reinforced reel, made of square tubular (30% heavier than the standard version).



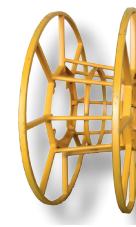
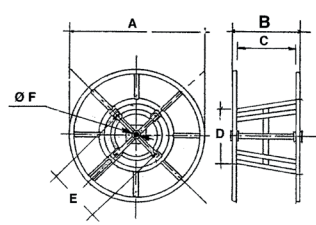
Fix type	Dimensions						Weight (without rope)
	A	B	C	D	E	F	F162 kg
	mm	mm	mm	mm	mm	mm	
F162.060	700	530	460	219		50	27
F162.110	1100	560	460	570	420	50	66
F162.140	1400	560	460	570	420	50	105
F162.160	1600	560	460	570	420	50	120
F162.190	1900	560	460	570	420	50	140
F162.220	2200	1560	1400	1010	420	100	950

F164

Welded and painted steel conical reel with openable side. Complete with central dials and bolts.

OPTIONAL

- 01. Total galvanization.
- 02. Additional pair of standard dials.
- 03. Pair of dials equipped with ball bearings.
- 05. Drum core covered with steel sheet.



Openable type	Dimensions						Weight (without rope)
	A	B	C	D	E	F	F164 kg
	mm	mm	mm	mm	mm	mm	
F164.060	700	530	460	219		50	40
F164.110	1100	560	460	570	420	50	85
F164.140	1400	560	460	570	420	50	115
F164.160	1600	560	460	570	420	50	130
F164.190	1900	560	460	570	420	50	220
F164.205	2050	1310	1170	630	420	50	550
F164.220	2200	1310	1170	1010	420	100	1050

REEL CAPACITY (meters of rope)						
Rope diameter (mm)	F162.060 F164.060	F162.110 F164.110	F162.140 F164.140	F162.160 F164.160	F162.190 F164.190	F162.220 F164.220
6	2000	6300	13000	17000	25000	-
7	1500	4500	9000	12000	18000	-
8	1200	3500	6000	5500	14000	-
9	900	2800	5400	7500	11000	-
10	800	2300	4400	6000	9000	33000
11	500	1900	3600	5000	7500	31000
12	450	1600	3000	4200	6000	22000
13	400	1400	2600	3600	5400	19000
14	300	1250	2200	3000	4600	16000
16	250	1000	1700	2400	3500	13000
18	-	800	1300	1900	2800	10000
20	-	650	1100	1600	2200	8000
22	-	500	900	1200	1900	6000
24	-	-	750	1000	1500	5000
26	-	-	650	900	1300	4500
28	-	-	560	800	1100	4000
30	-	-	490	700	1000	3500
32	-	-	430	600	850	3000

Note: the above capacities are indicative only and may vary according to the type of rope