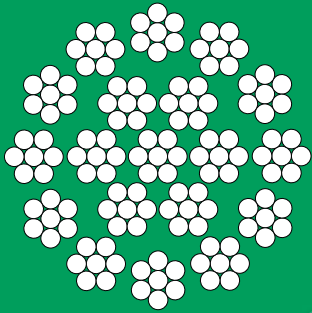


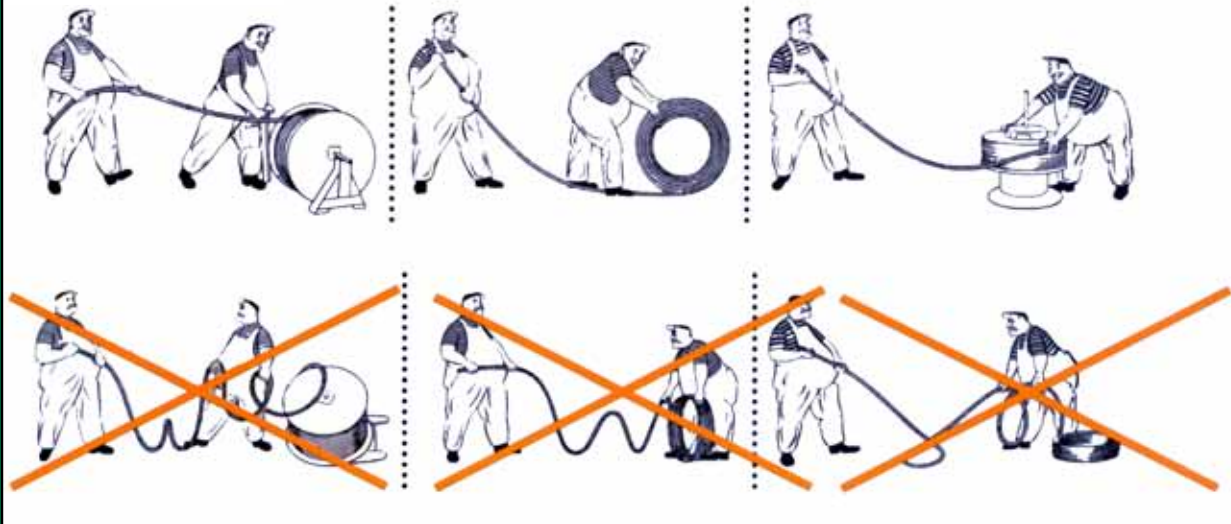
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METALLIC WIRE ROPES
BARED AND PLASTICIZED



GALVANIZED STEEL CABLES • ZINC ALLUMINIUM • STAINLESS STEEL
WIRE ROPES • GUYROPES

MAINTENANCE

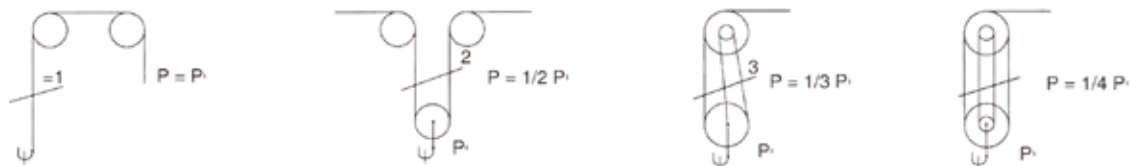


All our ropes are certified satisfying the UNI EN 12385/2008 regulations

Calculation of the minimum load satisfying the safety regulations. Rope's breaking load (Q) must be at least:

- 6 times the maximum rope's working load (P)
- 8 times the maximum rope's working load (P) in case of building applications

Maximum working load (P) is intended as for the following instances:



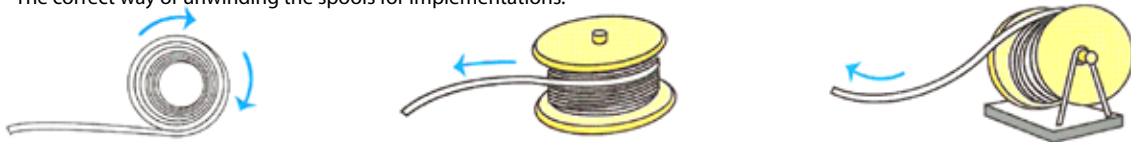
P=Effective load

To optimize safety and the lasting of a rope, we suggest to exceed by 20% the breaking load of a rope, referred to the minimum breaking load prescribed by law for the specific application.

Moreover:

- the diameter of the return pulley should be at least 20 times rope's diameter,
- the diameter of the return pulley should be at least 250 times single wires' diameter,
- the diameter of the withdrawal drum should be at least 25 times rope's diameter,
- the diameter of the withdrawal drum should be at least 300 times single wires' diameter

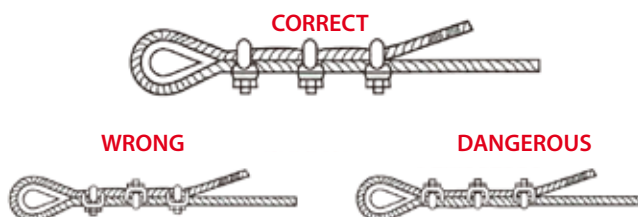
The correct way of unwinding the spools for implementations.



Warning! Implementing the ropes, avoid torsions that could lead to kinks.



Kinks weaken the rope leading to failure.



TO OBTAIN THE 80% OF THE RATINGS OF A ROPE		
ROPE	CLAMPS	
Diameter mm.	No.	Distance cm.
da 5 a 9	3	6
da 10 a 16,5	4	10
da 18 a 26	5	16

imc

METALLIC WIRE ROPES
BARED AND PLATICIZED

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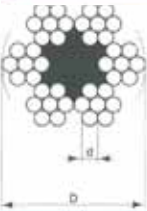
19 WIRES SPIRALOID ROPE

UNI - 7690
TYPE - I E L T

Configuration 12+6+1 = 19

Applications: hanging, electrical plants

Overall diameter D	wires' diameter d	Total metal section S	Approx. weight per Mt. gr	Minimum breaking load in Kg.	
				R in kg. mmHg	
mm.	mm.	mmHg	gr	R 160	R 180
1.20	0.24	0.86	7	-	140
1.50	0.30	1.38	11	-	185
1.90	0.38	2.16	17	-	350
2.00	0.40	2.29	19	-	385
2.50	0.50	3.73	31	-	600
3.00	0.60	5.37	44	-	870
3.50	0.70	7.31	60	-	1150
4.00	0.80	9.55	79	-	1500
4.50	0.90	12.10	100	1750	1950
5.00	1.00	14.20	124	2150	2400
6.00	1.20	21.50	176	3150	3450
7.00	1.40	29.20	240	4250	4700
8.00	1.60	38.20	310	5600	6100
9.00	1.80	48.30	400	7100	7800
10.00	2.00	59.70	490	8700	9600
11.00	2.20	72.20	600	10500	11400
12.00	2.40	86.00	710	12500	13800
13.00	2.60	101.00	830	14800	16300
14.00	2.80	117.00	970	17100	18900



STRANDED WIRE ROPE

UNI - 7292 - 74

TYPE - M T P

42 Steel wires and a single textile core

Configuration 6 (6+1) S/Z + FC = 42

Applications: Marine, Traction, fishing

Overall diameter D	wires' diameter d	Total metal section S	Approx. weight per Mt. gr	Minimum breaking load in Kg.	
				R in kg. mmHg	
mm.	mm.	mmHg	gr	R 160	R 180
2.00	0.22	1.60	14	225	250
2.50	0.28	2.59	23	365	410
3.00	0.32	3.37	30	485	535
3.50	0.38	4.76	42	680	760
4.00	0.43	6.09	55	875	965
4.50	0.50	8.25	73	1150	1335
5.00	0.56	9.98	90	1400	1550
5.50	0.61	12.33	108	1750	1950
6.00	0.66	13.90	120	2000	2200
7.00	0.75	18.60	160	2650	2900
8.00	0.85	23.80	210	3400	3750
9.00	1.00	33.00	300	4750	5200
10.00	1.10	39.90	360	5700	6300
11.00	1.20	47.50	430	6800	7500
12.00	1.30	55.70	500	8200	8800
13.00	1.40	64.70	580	9300	10100
14.00	1.50	74.20	670	10600	11600
15.00	1.65	89.80	810	12800	14100
16.00	1.75	101.00	900	14400	16000
17.00	1.85	112.00	1000	16100	17700
18.00	1.95	125.00	1130	17900	19700



STRANDED WIRE ROPE

UNI - 7288 - 74

TYPE - C O R

72 Steel wires and 7 textile core

Configuration 8 (12+FC S/Z) + FC = 7

Applications: common, commercial type, light duty

Overall diameter D	wires' diameter d	Total metal section S	Approx. weight per Mt. gr	Minimum breaking load in Kg.	
				R in kg. mmHg	
mm.	mm.	mmHg	gr	R 120	R 180
2 (4x6)	0.28	1.7	15	150	
3 (6x6)	0.33	3.1	30	300	
4 (8x6)	0.33	4.6	42	500	
5	0.33	6.2	55	625	
6	0.40	9.0	90	975	
7	0.40	11.8	120	1250	
8	0.50	14.1	140	1500	
9	0.60	20.4	210	2150	
10	0.65	23.9	240	2550	
11	0.70	27.7	280	2950	
12	0.80	36.2	370	3900	
13	0.85	40.9	420	4400	
14	0.90	45.8	470	4900	
15	1.00	56.5	580	6100	
16	1.05	62.3	640	6700	
18	1.20	81.4	830	8700	
20	1.30	95.6	980	10200	



7 WIRES SPIRALOID ROPE

UNI - 7690
TYPE - I E L T

Configuration 6+1 = 7

Applications: hanging, electrical plants

Overall diameter D	wires' diameter d	Total metal section S	Approx. weight per Mt. gr	Minimum breaking load in Kg.	
				R in kg. mmHg	
mm.	mm.	mmHg	gr	R 160	R 180
1.00	0.22	0.56	4	70	80
1.20	0.40	0.88	7	110	125
1.50	0.50	1.37	11	175	200
1.80	0.60	1.98	16	250	285
2.00	0.65	2.32	19	300	365
2.50	0.85	3.97	32	515	590
3.00	1.00	5.50	45	715	815
4.00	1.30	9.29	76	1200	1350
5.00	1.65	14.90	123	1900	2200
6.00	2.00	22.00	180	2850	3250
7.00	2.30	29.00	240	3750	4300
8.00	2.65	38.60	320	5000	5700
9.00	3.00	49.40	410	6400	7300
10.00	3.30	59.80	490	7700	8800
11.00	3.60	71.20	590	9200	10500
12.00	4.00	88.00	720	11300	12900
13.00	4.30	101.00	830	13100	15000

STRANDED WIRE ROPE

UNI - 7292 - 74

TYPE - M T P

49 Steel wires (metal core)

Configuration 6 (6+1) + WS (8+1) = 49

Applications: Marine, Traction, fishing



Overall diameter D	wires' diameter d	Total metal section S	Approx. weight per Mt. gr	Minimum breaking load in Kg.	
				R in kg. mmHg	
mm.	mm.	mmHg	gr	R 160	R 180
2.00	0.22	1.86	16	255	280
2.50	0.28	3.02	26	410	460
3.00	0.32	3.93	36	540	590
3.50	0.38	5.56	49	760	850
4.00	0.43	7.11	63	975	1075
4.50	0.50	9.63	85	1300	1450
5.00	0.55	11.63	98	1600	1750
5.50	0.61	14.35	127	1950	2200
6.00	0.65	16.25	142	2200	2400
7.00	0.75	21.63	193	2900	3200
8.00	0.85	27.19	252	3800	4200
9.00	1.00	39.46	350	5200	5800
10.00	1.10	48.54	420	6400	7000
11.00	1.20	55.38	502	7600	8300
12.00	1.30	65.00	584	8900	9800
13.00	1.40	75.39	677	10300	11300
14.00	1.50	86.54	782	11900	13000
15.00	1.65	104.72	945	14400	15800
16.00	1.75	117.39	1024	16200	17800
17.00	1.85	131.44	1190	18100	19900
18.00	1.95	146.26	1319	20100	22100

STRANDED WIRE ROPE

TYPE - C O R

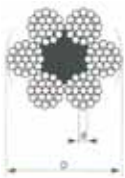
72 Steel wires and a single textile core

Configuration 6 (9+3) + FC = 72

Common applications



Overall diameter D	wires' diameter d	Total metal section S	Approx. weight per Mt. gr	Minimum breaking load in Kg.	
				R in kg. mmHg	
mm.	mm.	mmHg	gr	R 160	R 180
4	0.32	5.28	53	825	880
5	0.40	9.05	84	1260	1390
6	0.50	14.10	130	1900	2140
7	0.55	17.10	160	2390	2590
8	0.65	23.90	220	3340	3690
9	0.75	31.80	300	4440	4890
10	0.80	36.20	330	5090	5540
11	0.90	49.80	420	6440	7040
12	1.00	56.50	520	7940	8790
13	1.05	62.30	570	8740	9590
14	1.15	74.80	690	10490	11490
15	1.25	88.00	820	12290	13290
16	1.30	95.60	880	13390	14690
17	1.40	111.00	1020	15450	16900
18	1.50	127.00	1170	17700	19500
19	1.55	136.00	1250	18900	20900
20	1.65	154.00	1420	21500	23700



STRANDED WIRE ROPE

UNI - 7293 - 74
TYPE - E A

114 Steel wires a single textile core
Configuration 6(12+6+1) S/Z +FC = 114
Configuration 6(12+6+1) S/Z +AM = 133
Applications: Elevators, winches

Overall diameter D mm.	wires' diameter d mm.	Total metal section S mm ²	Approx. weight per Mt. gr.	Minimum breaking load in Kg.	
				R 180	R 200
3	0.20	3.58	33	545	770
4	0.26	6.05	55	925	1000
5	0.32	9.16	84	1400	1500
6	0.40	14.30	130	2150	2400
7	0.45	18.90	170	2850	3150
8	0.50	22.40	200	3350	3750
9	0.60	32.20	290	4850	5400
10	0.65	37.80	340	5700	6300
11	0.70	43.90	400	6600	7300
12	0.80	57.30	520	8600	9600
13	0.85	64.70	590	9700	10700
14	0.90	72.50	660	10800	12000
15	1.00	89.50	820	13500	15000
16	1.05	98.70	900	14800	16500
17	1.10	108.00	990	16300	18000
18	1.20	129.00	1190	19300	21500
19	1.25	140.00	1280	21000	23500
20	1.30	151.00	1380	22500	25000
22	1.45	188.00	1720	28000	31000
24	1.55	215.00	1970	32500	-

If metal cored 10% heavier - breaking load +8%



"HERCULES" WIRE ROPE (rotation resistant)

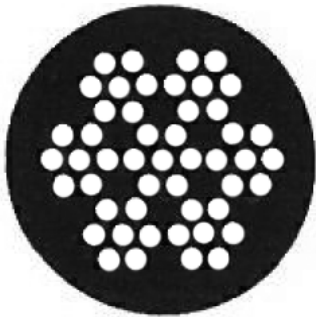
UNI - 7302 - 74
TYPE - A NT

133 wires (metal core)
Configuration 12 (6+1) +6 (6+1) +WS (6+1) = 133
Applications: Cranes, Unguided lifting

Overall diameter D mm.	wires' diameter d mm.	Total metal section S mm ²	Approx. weight per Mt. gr.	Minimum breaking load in Kg.	
				R 180	R 200
4	0.26	7.18	60	1070	1200
5	0.32	10.90	100	1600	1800
6	0.40	16.70	150	2400	2700
7	0.46	22.00	200	3200	3500
8	0.50	26.10	280	3800	4200
9	0.60	37.60	340	5500	6100
10	0.65	44.10	400	6450	7100
11	0.70	51.10	455	7500	8300
12	0.80	66.80	590	9800	10800
13	0.85	75.40	670	11000	12200
14	0.90	84.60	780	12400	13700
15	1.00	104.00	920	15300	16800
16	1.05	115.00	1020	16900	18600
18	1.20	150.00	1320	22100	24300
19	1.25	163.00	1430	24000	26400
20	1.30	178.00	1550	25900	28500
22	1.45	219.00	1920	32300	35400

Also available diameter 3,00 mm

GALVANIZED WIRE STEEL ROPES - PVC COATED

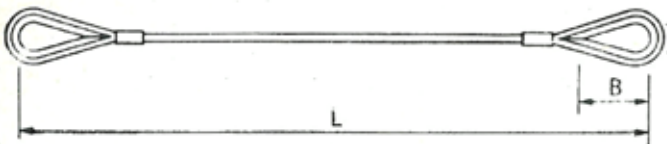


For the use on electrical plants, nurseries, zootechnical and railways fields

Galvanized wire ropes, zinc-aluminium and stainless steel of any configuration: (3-7-19-49-84-133 wires) coated with fire resistant polymer from a diameter of 0.8mm to 12mm.

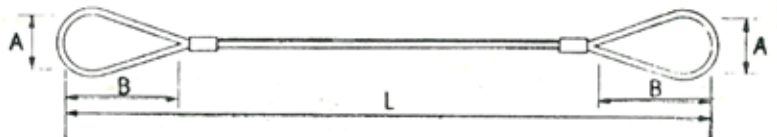
Customizable colors.

Guy rope with cringles "RR" TYPE



Overall diameter mm.	Max. load Kg.				cringle's sizes A x B	Minimum Length L mm.
	Used alone	Multiple hoisting				
		U	60	45		
6	330	660	570	460	15x 27	220
8	620	1240	1080	880	20x 37	280
10	920	1840	1600	1300	25x 46	350
12	1300	2600	2250	1840	31x 57	410
14	1850	3700	3200	2600	37x 68	480
16	2450	4900	4240	3460	42x 78	530
18	3150	6300	5460	4460	47x 87	600
20	3900	7800	6740	5520	54x 96	660
22	4750	9500	8230	6720	60x110	740
24	5250	10500	9100	7400	67x123	820
26	6200	12400	10740	8760	67x123	880
28	7350	14700	12720	10400	75x137	940
30	8500	17000	14720	12000	75x137	1000
36	12500	25000	21640	17600	95x174	1250
40	14800	29600	25600	20920	105x192	1400

Slotted Guy ropes "AA" Type



Overall diameter mm.	Max. load Kg.				Slot's sizes A x B	Minimum Length L mm.
	Used alone	Multiple hoisting				
		U	60	45		
6	330	660	570	460	48x 96	340
8	620	1240	1080	880	64x128	430
10	920	1840	1600	1300	80x160	530
12	1300	2600	2250	1840	96x192	650
14	1850	3700	3200	2600	112x224	750
16	2450	4900	4240	3460	128x256	850
18	3150	6300	5460	4460	144x288	950
20	3900	7800	6740	5520	160x320	1000
22	4750	9500	8230	6720	176x352	1180
24	5250	10500	9100	7400	192x384	1300
26	6200	12400	10740	8760	208x416	1380
28	7350	14700	12720	10400	224x448	1490
30	8500	17000	14720	12000	240x480	1600
36	12500	25000	21640	17600	288x576	1800
40	14800	29600	25600	20920	320x640	2000

The above Load limits are calculated using 1/6 safety coefficient as from ENPI regulations on equivalent steel wire ropes having 180 Kg/mm² capability

Standard "B" size of the slot is calculated multiplying rope's diameter by 16