• **a ps** wire rope[®] **PEAK PERFORMANCE**

HIGH QUALITY CRANE ROPES

ROPE SELECTION

Rope selection by rope funct

ALPS CRANE ROPES

ROTATION RESISTANT ROPE CATEGORY 1

DFC 34..... Rotation-resistant rope with compacted strands

ROTATION RESISTANT ROPE CATEGORY 2

DFC 19..

NON-ROTATION RESISTANT ROPE

DFC 8P..... 8-strand non-rotation-resistant rope with compac DFS 8 8-strand non-rotation-resistant rope with swage UNIO 8 Very flexible non-rotation-resistant 8-strand rope construction with rope core

APPLICATIONS

Truck Crane.... Mobile Crane..... Crawler Crane..... Tower Crane Luffing Crane Gantry Crane (STS) Mobile Harbor Crane..... RTG Crane.....

DISCARD CRITERIA

Non-rotation Resistant Rope Rotation-resistant ropes

SAFETY

Safety information ...

Alps[®] Wire Rope Corporation has provided the most innovative products in North America since its founding in 1968.

alpswirerope.com

manufacturer and competent authorities.



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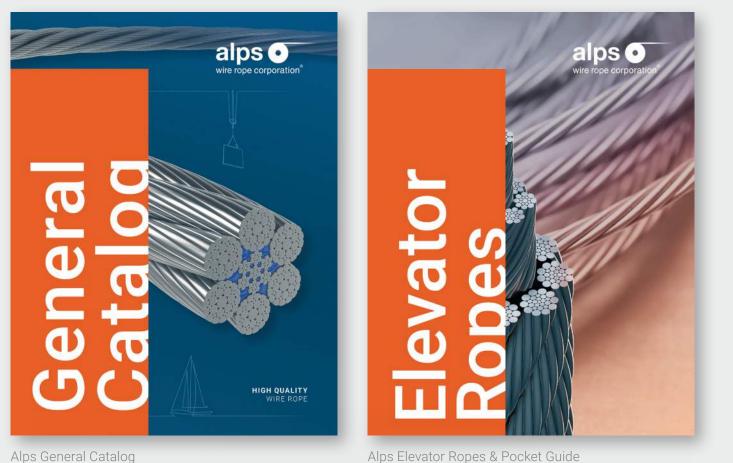
and rope core	

	16
cted strands and rope co	re
	18
d strands and rope core	
	20
with double parallel	

	22
s (Single-layer and parallel-closed)	30
	30

. 31

DISCOVER OUR PRODUCT RANGE



Alps General Catalog



further information at alpswirerope.com



ROPE SELECTION¹ BY FUNCTION

Crane Type	Crane Rope Function	Rotation Resistant Rope Category 1	Rotation Resistant Rope Category 2	Non-Rotation Resistant Rope			
		DFC 34	DFC 19	DFC 8P	DFS 8	UNIQ 8	
Truck Crane	Load Hoist	•	. 2				
	Load Hoist	•					
Mobile Crane	Auxiliary Load Hoist	•					
	Luffing			•	. 5		
	Load Hoist	•					
Crawler Crane	Auxiliary Load Hoist	•					
	Main Boom Hoist			•		•	
	Boom Pendant			•	•	•	
	Luffing			•	•		
Tower Crane	Load Hoist	•	• 2				
	Trolley Hoist			•		•	
	Boom Pendant			•		•	
	Load Hoist	•					
Luffing Crane	Boom Pendant			•		•	
	Luffing			•	. 5		
	Load Hoist			. 3			
Gantry Crane (STS)	Trolley Hoist			•			
	Boom Pendant			•	, 5		
Mobile Harbor Crane	Load Hoist			•			
RTG Crane	Load Hoist			.3			
Overhead Crane	Load Hoist	• 4	• 2,4	•		•	
Straddle Carrier	Load Hoist			. 3			
	Load Hoist	• with plastic					
Deck Crane	Main Boom Hoist			•		٠	

1) All rope selection tables are intended for general guidance purposes. The final rope selection depends on detailed information about the crane, e.g. lifting height, reeving configuration and drum but also on the typical wear characteristics. If in doubt please contact us for further information.



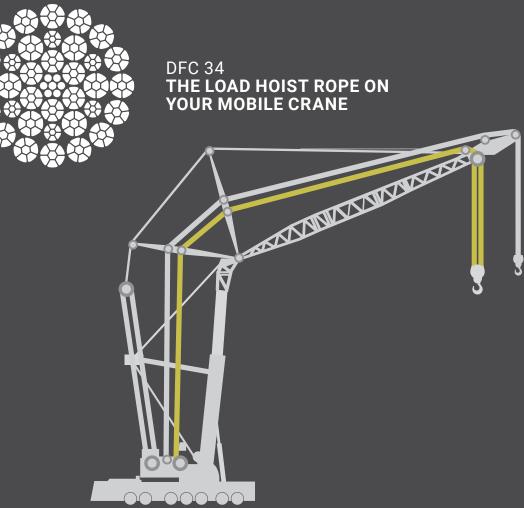
2) If the rotational behavior of the rope is suitable considering the crane design and crane utilization.

3) For load hoist operation the ropes are commonly used in pairs.

4) If rotation resistant rope is required.

5) Recommended on multi-layer drums if crushing resistance is most critical.



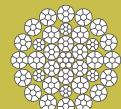


ROTATION **RESISTANT ROPE** CATEGORY 1

ROTATION RESISTANCE

Wire ropes that present little or no tendency to spin or rotate per the international standard ASTM A 1023. Alps DFC 34 has 16 outer strands and is manufactured with at least 3 layers of compacted strands laid in opposition to the underlying layer, creating a counterbalancing effect. These wire ropes can be used with or without a swivel.

Rotation-resistant ropes are usually used in hoisting applications where the load is unguided or in high-lifting applications such as tower and mobile cranes.

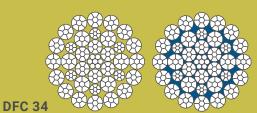


DFC 34 outer strands.

multifunctional, compacted rotation resistant rope with 16 RO RESISTAN ROTATION

DFC 34

Multifunctional, compacted rotation resistant rope with 16 outer strands for hoisting applications.





Minimum Breaking Nominal diameter 1960 N/mm² in mm kΝ metric ton lbs 8.0 5/16 59.1 6.03 13,290 62 9.0 75.3 7.68 16,930 79. 9.5 3/8 83.9 8.56 18,860 89 10.0 92.7 9.45 20,840 98 11.0 7/16 111 11.3 24,950 11 12.0 134 13.6 30,010 141 12.7 1/2 149 15.1 33,380 15 13.0 157 16.0 35,180 165 14.0 182 18.5 40,800 19 14.3 9/16 190 19.3 42,600 201 209 22 15.0 21.3 46,870 16.0 5/8 237 24.2 53,280 25 17.0 268 27.3 60.250 28 18.0 300 30.6 31 67,440 19.0 3/4 334 34.1 75,090 35 20.0 370 37.7 83,180 391 21.0 409 41.7 43 91,830 22.0 7/8 449 45.7 100,830 474 23.0 490 50.0 110,160 51 24.0 533 54.4 56 119,820 25.0 578 6 58.9 129,940 25.4 598 61.0 134,430 63 1 26.0 626 63.8 140,730 66 27.0 675 68.8 151,740 718 28.0 725 162,980 73.9 76 28.6 77.0 169,730 79 1-1/8 755 29.0 777 79.2 174,670 82 30.0 832 84.8 187,040 88 890 31.0 90.8 200,080 93 32.0 1-1/4 948 96.7 213,120 1,00 33.0 1,008 102.8 226,610 1,0 34.0 1.070 109.1 240,540 1,13 1-3/8 251,780 1,18 35.0 1,120 114.2 36.0 1,198 122.2 269,320 1,26 1,336 136.2 1,4 38.0 1-1/2 300,340 40.0 151.0 332,940 1,5 1,481 41.3 1-5/8 1,580 1,6 161.1 355,190 42.0 1,635 166.7 367,560 1,7 44.0 1-3/4 402,400 1.8 1,790 182.5

GENERIC APPLICATION ADVICE¹

DFC 34 is a high performance rotation resistant rope suitable for all hoist applications.

- DFC 34 is recommended for high lifting operations
- Suitable for single part and multi-part reeving
- Recommended for multilayer coiling in Lang's Lay
- · Can be used both with and without swivel

MAIN PROPERTIES

- Category 1 rotation resistant rope in accordance to ASTM A1023
- Very high breaking force
- High bending fatigue performance
- Very stable rope structure

TECHNICAL DATA

- · Load bearing wires in the outer strands and the corresponding RCN (Rope Category Number) according to ISO4309 for cranes:
- 112 wires: RCN 23-2
- Average fill factor: 0.720
- Standard tolerance on diameter: +2% to +4% (other tolerances upon request)

PRODUCT TYPES AVAILABLE

- Bright is standard (Galvanized upon request)
- Regular Lay or Lang's Lay (Lang's Lay is standard)
- Plastic coated steel core available

The cross section shown is just an example and may vary. Data sheet information is subject to modification without prior notice. The valid data is published on our website.

Multifunctional, compacted rotation resistant rope with 16 outer strands for hoisting applications.

Load			Metallic	14 /	
	2160 N/mm ²		area	we	ight
N	metric ton	lbs	mm ²	kg/m	ft/lb
.6	6.38	14,070	36.0	0.31	0.21
.5	8.11	17,870	46.0	0.39	0.26
.3	9.11	20,080	51.3	0.43	0.29
.5	10.04	22,140	57.0	0.48	0.32
7	11.9	26,320	68.8	0.60	0.40
1	14.3	31,590	81.5	0.71	0.48
7	16.0	35,180	92.0	0.80	0.54
5	16.8	37,070	95.6	0.83	0.56
2	19.6	43,250	110.9	0.97	0.65
)1	20.5	45,160	115.7	1.01	0.68
20	22.5	49,550	127.3	1.11	0.75
50	25.5	56,290	144.9	1.26	0.85
31	28.7	63,240	163.6	1.42	0.96
7	32.3	71,220	183.4	1.60	1.07
3	36.0	79,290	204.3	1.78	1.20
)1	39.9	87,850	226.4	1.97	1.33
32	44.0	97,050	249.6	2.17	1.46
74	48.3	106,560	273.9	2.39	1.60
17	52.7	116,250	299.4	2.61	1.75
53	57.4	126,520	326.0	2.84	1.91
1	62.3	137,290	353.7	3.08	2.07
32	64.4	142,030	365.1	3.18	2.14
6	67.9	149,650	382.6	3.33	2.24
8	73.2	161,370	412.6	3.59	2.42
8	78.3	172,650	443.7	3.87	2.60
99	81.5	179,620	463.0	4.04	2.71
21	83.8	184,660	476.0	4.15	2.79
80	89.7	197,830	509.4	4.44	2.98
9	95.8	211,090	543.9	4.74	3.18
02	102.2	225,260	579.6	5.05	3.39
65	108.6	239,420	616.3	5.37	3.61
30	115.2	254,030	654.3	5.70	3.83
85	120.8	266,400	689.0	6.00	4.03
66	129.1	284,610	733.5	6.39	4.29
08	143.6	316,530	817.3	7.12	4.78
60	159.1	350,700	905.6	7.89	5.30
61	169.4	373,400	965.4	8.41	5.65
20	175.4	386,670	998.4	8.70	5.84
85	192.2	423,760	1,096.0	9.55	6.42

Oalps





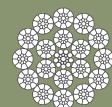






ROTATION **RESISTANT ROPE** CATEGORY 2

ROTATION RESISTANCE



DFC 19

THE LOAD HOIST ROPE ON YOUR TRUCK CRANE



12 compacted outer strands.

ROTATION RESISTANT ROPE 2

DFC 19

Basic rotation resistant rope with 12 compacted outer strands.

GENERIC APPLICATION ADVICE¹

DFC 19 is a cost-effective solution for multi-part reeving hoist applications of the rotational behaviour provided is appropriate. The construction of the outer strands differs and consequently also the RCN to be applied.

- Suitable for multi-part reeving with unguided load but limited lifting heights
- Note: Not to be used for single fall hoist application with an unguided load
- Recommended for multilayer coiling
- Must not be used with a swivel!

MAIN PROPERTIES

- Category 2 rotation resistant rope in accordance to ASTM A1023
- High breaking force
- Flexible rope construction
- Good resistance to wear

TECHNICAL DATA

- Load bearing wires in the outer strands and the corresponding RCN (Rope Category Number) according to ISO4309 for cranes:
- 228 wires: RCN 28
- Average fill factor: 0.721
- Standard tolerance on diameter: +2% to +4% (other tolerances upon request)

PRODUCT TYPES AVAILABLE

- Bright is standard (galvanized upon request)
- Regular Lay or Lang's Lay

DFC 19



	Minimum Breaking Load							Metallic		
Nominal	Nominal diameter		1960 N/mm ²			2160 N/mm ²		area	Wei	ght
mm	in	kN	metric ton	lbs	kN	metric ton	lbs	mm ²	kg/m	ft/lb
6.0		30.7	3.13	6,900	34.0	3.47	7,640	20.5	0.18	0.12
7.0		41.7	4.25	9,360	45.0	4.59	10,120	27.9	0.24	0.16
8.0	5/16	54.4	5.55	12,230	60.0	6.12	13,490	36.4	0.31	0.21
9.0		68.9	7.02	15,480	75.0	7.65	16,860	46.1	0.39	0.26
9.5	3/8	76.7	7.82	17,250	84.2	8.59	18,930	51.4	0.44	0.29
10.0		85.0	8.67	19,110	93.3	9.51	20,970	56.9	0.49	0.33
11.0	7/16	104	10.6	23,420	114	11.7	25,690	68.9	0.59	0.40
12.0		124	12.6	27,880	136	13.9	30,570	82.0	0.70	0.47
12.7	1/2	139	14.2	31,220	152	15.5	34,240	91.8	0.78	0.53
13.0		145	14.8	32,600	160	16.3	35,880	96.2	0.82	0.55
14.0		168	17.1	37,800	185	18.9	41,610	111.6	0.95	0.64
14.3	9/16	175	17.9	39,440	193	19.7	43,420	116.4	0.99	0.67
15.0		193	19.7	43,400	213	21.7	47,770	128.1	1.09	0.73
16.0	5/8	220	22.4	49,380	242	24.7	54,350	145.8	1.24	0.84
17.0		248	25.3	55,740	273	27.8	61,360	164.6	1.40	0.94
18.0		278	28.3	62,490	306	31.2	68,790	184.5	1.58	1.0
19.0	3/4	310	31.6	69,630	341	34.8	76,650	205.6	1.75	1.1
20.0		343	35.0	77,150	378	38.5	84,930	227.8	1.94	1.3
21.0		378	38.6	85,060	417	42.5	93,630	251.1	2.14	1.44
22.0	7/8	415	42.3	93,350	457	46.6	102,760	275.6	2.35	1.58
23.0		454	46.3	102,030	500	50.9	112,320	301.2	2.57	1.73
24.0		494	50.4	111,100	544	55.5	122,290	328.0	2.80	1.8
25.0		536	54.7	120,550	590	60.2	132,700	355.9	3.04	2.04
25.4	1	554	56.4	124,440	609	62.1	136,980	367.4	3.14	2.1
26.0		580	59.1	130,390	638	65.1	143,530	384.9	3.29	2.2
27.0		625	63.8	140,610	689	70.2	154,780	415.1	3.54	2.3
28.0		673	68.6	151,220	740	75.5	166,460	446.4	3.81	2.5
28.6	1-1/8	702	71.6	157,770	773	78.8	173,670	465.8	3.98	2.6
29.0		722	73.6	162,210	794	81.0	178,560	478.9	4.09	2.7
30.0		772	78.7	173,590	850	86.7	191,090	512.5	4.38	2.94
31.0		825	84.1	185,360	908	92.6	204,040	547.2	4.67	3.14
32.0	1-1/4	879	89.6	197,510	967	98.6	217,410	583.1	4.98	3.34
33.0		934	95.3	210,050	1,029	104.9	231,210	620.1	5.29	3.56
34.0		992	101.1	222,970	1,092	111.3	245,440	658.3	5.62	3.78
35.0	1-3/8	1,051	107.2	236,280	1,157	118.0	260,090	697.6	5.95	4.00
36.0		1,110	113.2	249,540	1,220	124.4	274,260	738.0	6.30	4.23

• alps

n resistant rope with ed outer strands.

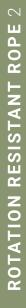




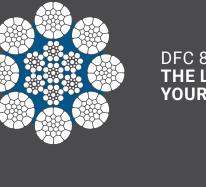












DFC 8P THE LUFFING ROPE ON YOUR CRAWLER CRANE

NON-ROTATION-RESISTANT ROPE

NON-ROTATION RESISTANCE

Alps 8-strand ropes (DFC 8P, DFS 8 and UNIQ 8) exhibit the highest level of bending resistance. The outer layer of strands is laid in the same direction as the inner layers. They should be used in guided load applications (i.e., where twisting is not physically possible). They are typically suitable in applications where spinning is not a concern, such as Gantry and RTG cranes.

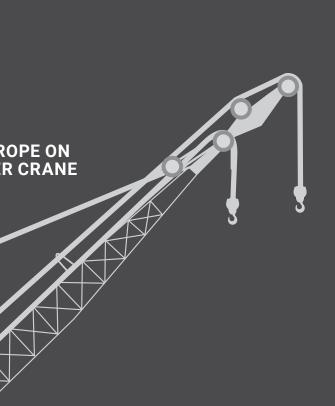


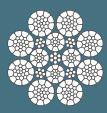
DFC 8P

8-strand non-rotationresistant compacted rope with rope core covered with plastic.



8-strand non-rotation-resistant rope with swaged strands and rope core.





UNIQ 8

Very flexible non-rotationresistant 8-strand rope in double parallel construction with rope core.

DFC 8P

Multifuctional, compacted 8-strand, nonrotation resistant rope. The IWRC-steel core is made of regular strands and plastic coated.

GENERIC APPLICATION ADVICE¹

DFC 8P achieves a long service life because of its excellent bending fatigue resistance and provides a firm rope structure.

- Suitable for a variety of applications that don't require rotation resistant ropes e.g.:
- Multi-part reeving hoist applications
- with right-hand and left-hand ropes operating in pairs
- limited lifting heights if one rope is used
- Luffing application
- Boom pendant rope
- Recommended for multilayer coiling in Lang's Lay
- Must not be used with a swivel! Rope ends are always secured to prevent rotation

MAIN PROPERTIES

- Non-rotation resistant rope
- Very high breaking force
- Excellent bending fatigue performance
- Crush resistant

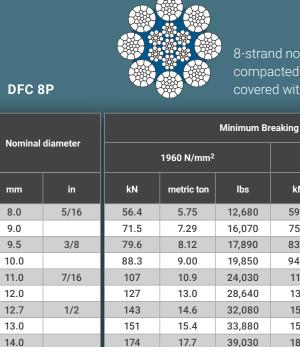
TECHNICAL DATA

- Load bearing wires in the outer strands and the corresponding RCN (Rope Category Number) according to ISO4309 for cranes.
- 152 wires: 8-12mm RCN 04
- 208 wires: 13-32mm RCN 09
- 248 wires: 34-48mm RCN 11
- 288 wires: 50-56mm RCN 13
- Average fill factor: 0.675
- Standard tolerance on diameter: +2% to+4%

(other tolerances upon request)

PRODUCT TYPES AVAILABLE

- Galvanized is standard
- Regular Lay or Lang's Lay



181

199

228

257

286

319

353

390

431

471

512

555

573

605

652

694

724

744

798

853

915

972

1,036

1,091

1,148

1,282

1,416

1,508

1,568

1,722

1,873

2.044

2,148

2,221

2,314

2,478

2,651

18.5

20.3

23.2

26.2

29.2

32.5

36.0

39.8

43.9

48.1

52.2

56.6

58.4

61.6

66.4

70.8

73.8

75.8

81.3

86.9

93.3

99.1

105.7

111.3

117.1

130.7

144.4

153.8

159.9

175.6

191.0

208.5

219.0

226.5

236.0

252.6

270.3

40,760

44,760

51,170

57,750

64.340

71,650

79,400

87,720

96,850

105,950

115,120

124,810

128,840

135,900

146,480

155,990

162,780

167,210

179.310

191,650

205,770

218,400

232,970

245,310

258,120

288,250

318,300

339,010

352,430

387,070

421,000

459.550

482,790

499,390

520,200

556,980

595,890

mm

8.0

9.0

9.5

10.0

12.7

14.3

15.0

16.0

17.0

18.0

19.0

20.0

21.0 22.0

23.0

24.0

25.0

25.4

26.0

27.0

28.0

28.6

29.0

30.0

31.0

32.0

33.0

34.0

35.0

36.0

38.0

40.0

41.3

42.0

44.0

46.0

48.0

50.0

50.8

52.0

54.0

56.0

9/16

5/8

3/4

7/8

1

1-1/8

1-1/4

1-3/8

1-1/2

1-5/8

1-3/4

1-7/8

2

2-1/8

The cross section shown is just an example and may var
without prior notice. The valid data is published on our w

1) Please ask if in doubt about choosing a rope. Alps is happy to assist. The cross section shown is just an example and may vary. Data sheet information is subject to modification without prior notice. The valid data is published on our website.



8-strand non-rotation-resistant compacted rope with rope core covered with plastic.

aking Load			Metallic	14/	
	2160 N/mm ²		area	Wei	igni
kN	metric ton	lbs	mm ²	kg/m	ft/lb
59.2	6.04	13,310	34.0	0.29	0.19
75.1	7.66	16,880	43.0	0.37	0.25
83.6	8.52	18,790	47.9	0.41	0.28
94.2	9.61	21,180	53.0	0.46	0.31
114	11.6	25,540	77.7	0.56	0.38
133	13.6	29,990	76.0	0.66	0.44
151	15.4	34,040	95.4	0.74	0.50
159	16.2	35,740	90.0	0.78	0.52
184	18.8	41,430	104.0	0.90	0.61
192	19.6	43,190	108.5	0.94	0.63
212	21.6	47,590	119.0	1.04	0.70
240	24.5	53,950	136.0	1.18	0.79
271	27.6	60,860	153.5	1.33	0.90
305	31.1	68,660	172.0	1.49	1.00
340	34.7	76,430	192.0	1.66	1.12
381	38.8	85,560	212.0	1.84	1.24
418	42.6	93,970	233.7	2.03	1.36
458	46.7	102,920	257.0	2.23	1.50
500	51.0	112,360	280.9	2.43	1.63
545	55.6	122,520	305.0	2.65	1.78
588	60.0	132,210	331.0	2.88	1.94
608	62.0	136,610	341.7	2.97	2.00
638	65.0	143,380	358.0	3.11	2.09
687	70.1	154,460	386.1	3.35	2.25
736	75.0	165,440	416.0	3.61	2.42
767	78.2	172,450	434.0	3.76	2.53
788	80.3	177,130	446.2	3.87	2.60
858	87.4	192,770	477.0	4.14	2.78
915	93.3	205,630	509.3	4.42	2.97
973	99.2	218,620	543.0	4.71	3.17
1,033	105.4	232,270	577.5	5.01	3.37
1,098	112.0	246,860	613.0	5.32	3.57
1,157	118.0	260,120	679.7	5.60	3.76
1,223	124.7	274,960	687.0	5.96	4.00
1,371	139.8	308,120	766.0	6.64	4.46
1,504	153.3	338,040	848.0	7.36	4.94
1,601	163.3	360,010	904.0	7.84	5.27
1,665	169.7	374,210	935.0	8.11	5.45
1,825	186.1	410,320	1,026.0	8.91	5.99
1,993	203.2	447,950	1,121.0	9.73	6.54
2,168	221.1	487,340	1,220.0	10.6	7.1
2,331	237.7	524,070	1,323.8	11.5	7.7
2,390	243.7	537,290	1,366.5	11.9	8.0
2,459	250.7	552,730	1,431.8	12.4	8.4
2,644	269.6	594,430	1,544.1	13.4	9.0
2,794	284.9	628,110	1,660.6	14.4	9.7
~,, , , , , , , , , , , , , , , , , , ,	204.9	020,110	1,000.0	17.7	2.1

ry. Data sheet information is subject to modification vebsite













ROPE NON-ROTATION-RESISTANT

DFS 8

8-strand non-rotation resistant rope with swaged strands and independent wire rope core.

GENERIC APPLICATION ADVICE¹

Applications that don't require rotation resistant ropes including:

- Boom Pendants
- Multilayer Applications
- Must not be used with a swivel. Only use it when rope ends are properly secured to prevent rotation

MAIN PROPERTIES

- Excellent wear resistance and shape stability
- Minimum damage to drum, sheave and roller
- High breaking strength
- More flexible than standard 6 strand ropes

TECHNICAL DATA

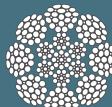
- · Load bearing wires in the outer strands and the corresponding RCN(RopeCategoryNumber) according to ISO4309 for cranes.
- 152 wires: RCN 06
- 200 wires: RCN 08
- 208 wires: RCN 09
- Average fill factor: 0.790
- Standard tolerance on diameter: +2% to +4% (other tolerances upon agreement)

The cross section shown is just an example and may vary. Data sheet information is subject to modification without prior notice. The valid data is published on our website.

PRODUCT TYPES AVAILABLE

- Galvanized is standard
- Regular Lay or Lang's Lay

1) Please ask if in doubt about choosing a rope. Alps is happy to assist.	
The cross section shown is just an example and may vary. Data sheet information is subject to modification	



DFS 8

8-strand non-rotation-resistant rope with swaged strands and independent wire rope core.

				Minimum Br	eaking Load			Metallic			
Nominal	Nominal diameter		1960 N/mm ²			2160 N/mm ²			We	ight	
mm	in	kN	metric ton	lbs	kN	metric ton	lbs	mm ²	kg/m	ft/lb	
8.0	5/16	60.8	6.2	13,668	64.9	6.6	14,590	40.0	0.35	0.235	
9.0		77.3	7.9	17,378	82.4	8.4	18,524	50.0	0.44	0.296	
10.0		94.8	9.7	21,312	102	10.4	22,931	62.0	0.55	0.370	
11.0	7/16	115	11.7	25,853	124	12.6	27,876	75.0	0.66	0.443	
12.0		137	14.0	30,799	147	15.0	33,047	90.0	0.79	0.53	
12.7	1/2	154	15.7	34,576	165	16.8	36,981	100.5	0.88	0.59	
13.0		161	16.4	36,194	172	17.5	38,667	105.0	0.92	0.61	
14.0		186	19.0	41,814	200	20.4	44,962	122.0	1.07	0.71	
15.0		213	21.7	47,884	230	23.5	51,706	140.0	1.23	0.82	
16.0	5/8	243	24.8	54,629	262	26.7	58,900	160.0	1.40	0.94	
18.0		308	31.4	69,241	331	33.8	74,412	202.0	1.77	1.18	
19.0	3/4	343	35.0	77,109	369	37.6	82,954	225.0	1.97	1.32	
20.0		380	38.7	85,427	408	41.6	91,722	249.0	2.18	1.46	
22.0	7/8	459	46.8	103,187	493	50.3	110,831	302.0	2.64	1.77	
24.0		547	55.8	122,970	588	60.0	132,188	359.0	3.14	2.11	
25.0		593	60.5	133,312	638	65.1	143,428	390.0	3.41	2.29	
25.4	1	613	62.5	137,718	659	67.2	148,104	402.4	3.52	2.36	
26.0		642	65.5	144,327	690	70.4	155,118	421.0	3.69	2.48	
28.0		745	76.0	167,483	800	81.6	179,847	489.0	4.28	2.87	
28.6	1-1/8	778	79.3	174,901	836	85.2	187,873	510.6	4.47	3.00	
30.0		855	87.2	192,212	919	93.7	206,599	561.0	4.91	3.29	
32.0	1-1/4	972	99.1	218,514	1,044	106.5	234,700	638.0	5.58	3.75	
34.0		1,098	112.0	246,840	1,179	120.2	265,050	721.0	6.30	4.23	
35.0	1-3/8	1,165	118.7	261,790	1,251	127.6	281,236	764.5	6.69	4.49	
36.0		1,231	125.5	276,740	1,323	134.9	297,422	808.0	7.07	4.75	
38.0	1-1/2	1,371	139.8	308,213	1,473	150.2	331,144	900.0	7.87	5.28	
40.0		1,519	154.9	341,485	1,633	166.5	367,113	998.0	8.73	5.86	













ROPE NON-ROTATION-RESISTANT

UNIQ 8

Compacted non-rotation resistant 8-strand double parallel lay rope (PWRC).

GENERIC APPLICATION ADVICE¹

UNIQ 8 offers very high breaking force, reduced elongation and excellent flexibility.

- Suitable for applications that don't require rotation resistant ropes but high breaking forces e.g.:
- Stationary ropes such as boom pendants
- Must not be used with a swivel! Rope ends are always secured to prevent rotation

MAIN PROPERTIES

- Non-rotation resistant rope
- Very high breaking force
- Good resistance to wear
- Very flexible rope construction
- Reduced elongation

TECHNICAL DATA

- Load bearing wires in the outer strands and the corresponding
- RCN(RopeCategoryNumber) according to ISO4309 for cranes.
- 152 wires: 8-12mm RCN 04
- 208 wires: 13-28mm RCN 09
- Average fill factor :0.720
- Standard tolerance on diameter: +2% to+4% (other tolerances upon agreement)

PRODUCT TYPES AVAILABLE

- Bright is standard
- (galvanized upon request)
- Regular Lay exclusively

-			
•]			
8			

UNIQ



		Minimum Breaking Load								
Nominal	Nominal diameter		1960 N/mm ²			2160 N/mm ²			Weight	
mm	in	kN	metric ton	lbs	kN	metric ton	lbs	mm ²	kg/m	ft/lb
8.0	5/16	58.0	5.91	13,040	64.0	6.53	14,390	36.0	0.31	0.21
8.5		66.0	6.73	14,840	72.0	7.34	16,190	40.7	0.35	0.24
9.0		73.0	7.44	16,410	81.0	8.26	18,210	45.6	0.39	0.26
9.5	3/8	81.3	8.29	18,280	90.3	9.20	20,290	50.8	0.43	0.29
10.0		91.0	9.28	20,460	100	10.2	22,480	56.3	0.48	0.32
11.0	7/16	110	11.2	24,750	121	12.3	27,200	68.1	0.58	0.39
12.0		131	13.4	29,460	144	14.7	32,370	81.1	0.69	0.46
12.7	1/2	146	14.9	32,820	161	16.4	36,190	91.0	0.77	0.52
13.0		154	15.7	34,570	169	17.2	37,990	95.1	0.81	0.55
14.0		178	18.2	40,100	196	20.0	44,060	110.3	0.94	0.63
14.3	9/16	186	19.0	41,830	204	20.9	45,970	115.1	0.98	0.66
15.0		205	20.9	46,030	225	22.9	50,580	126.7	1.08	0.73
16.0	5/8	233	23.8	52,370	256	26.1	57,550	144.1	1.23	0.83
17.0		263	26.8	59,120	289	29.5	64,970	162.7	1.39	0.93
18.0		295	30.1	66,280	324	33.0	72,840	182.4	1.56	1.05
19.0	3/4	329	33.5	73,850	361	36.8	81,160	203.2	1.73	1.16
20.0		364	37.1	81,830	400	40.8	89,920	225.2	1.92	1.29
21.0		401	40.9	90,220	441	45.0	99,140	248.3	2.12	1.42
22.0	7/8	440	44.9	99,010	484	49.4	108,810	272.5	2.32	1.56
23.0		480	48.9	107,910	528	53.8	118,700	297.0	2.54	1.71
24.0		524	53.4	117,830	576	58.7	129,490	324.3	2.76	1.86
25.0		569	58.0	127,860	625	63.7	140,500	351.9	3.00	2.02
25.4	1	587	59.9	131,980	645	65.8	145,040	363.2	3.10	2.08
26.0		615	62.7	138,290	676	68.9	151,970	380.6	3.24	2.18
27.0		663	67.6	149,130	729	74.3	163,880	410.4	3.50	2.35
28.0		713	72.8	160,390	784	79.9	176,250	441.4	3.76	2.53

• alps

Compacted non-rotation resistant 8-strand double parallel lay rope





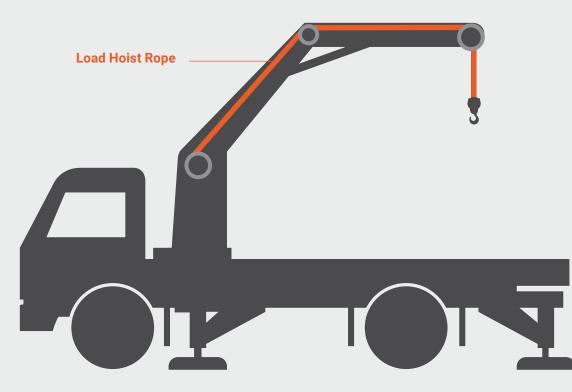




NON-ROTATION-RESISTANT ROPE

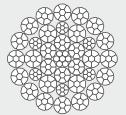
TRUCK CRANE

MOBILE CRANE



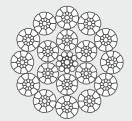
Load Hoist Rope

ROTATION RESISTANT WIRE ROPES



DFC 34 🔴

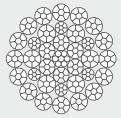
multifunctional, compacted rotation resistant rope with 16 outer strands.



DFC 19 basic rotation resistant rope with compacted outer strands.

NON-ROTATION RESISTANT WIRE ROPES

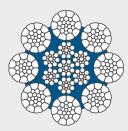
ROTATION RESISTANT WIRE ROPES

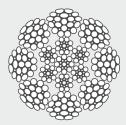


DFC 34 **O** multifunctional, compacted rotation resistant rope with 16 outer strands.



NON-ROTATION RESISTANT WIRE ROPES





DFC 8P

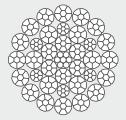
8-strand non-rotation-resistant compacted rope with compacted outer strands and plastic impregnated core.

DFS 8 📃

8-strand non-rotation-resistant rope with swaged strands.



ROTATION RESISTANT WIRE ROPES



DFC 34 O multifunctional, compacted rotation resistant rope with 16 outer strands.

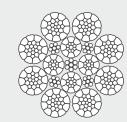
NON-ROTATION RESISTANT WIRE ROPES







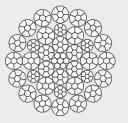
8-strand non-rotation-resistant rope with swaged strands and rope core.



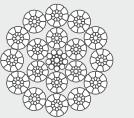
UNIQ 8

very flexible non-rotation-resistant 8-strand rope in double parallel construction with rope core.

ROTATION RESISTANT WIRE ROPES

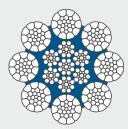


DFC 34 — multifunctional, compacted rotation resistant rope with 16 outer strands.



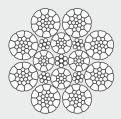
DFC 19 basic rotation resistant rope with compacted outer strands.

NON-ROTATION RESISTANT WIRE ROPES



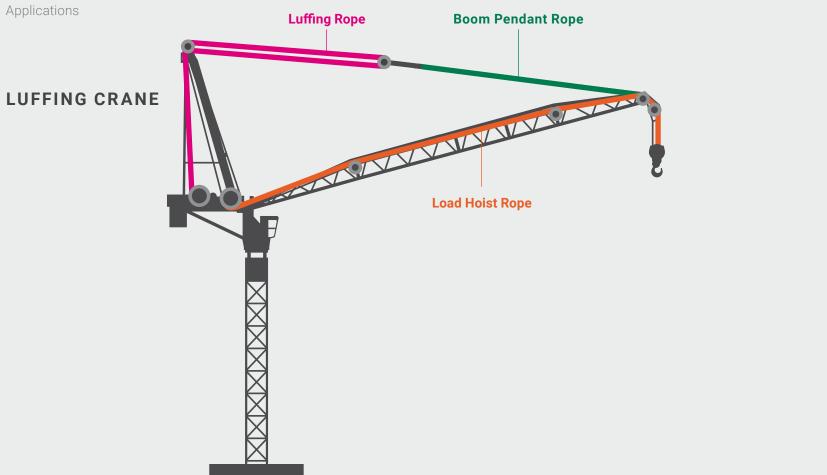


8-strand non-rotation-resistant compacted rope with rope core covered with plastic.



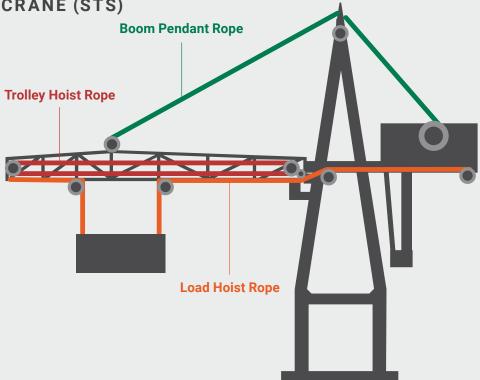
UNIQ 8 🔵 🛑

very flexible non-rotation-resistant 8-strand rope in double parallel construction with rope core.

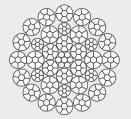


Applications

GANTRY CRANE (STS)

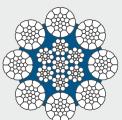


ROTATION RESISTANT WIRE ROPES



DFC 34 🔴 multifunctional, compacted rotation resistant rope with 16 outer strands.

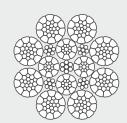
NON-ROTATION RESISTANT WIRE ROPES



DFC 8P 🔴 🔵 8-strand non-rotation-resistant compacted rope with rope core covered with plastic.

DFS 8 📃

8-strand non-rotation-resistant rope with swaged strands and rope core.

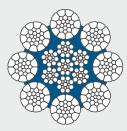


UNIQ 8 🔵 very flexible non-rotation-resistant 8-strand rope in double parallel construction with rope core.

ROTATION RESISTANT WIRE ROPES

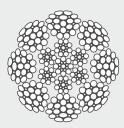
26

NON-ROTATION RESISTANT WIRE ROPES



DFC 8P 🛑 🛑 🔵

8-strand non-rotation-resistant compacted rope with rope core covered with plastic.

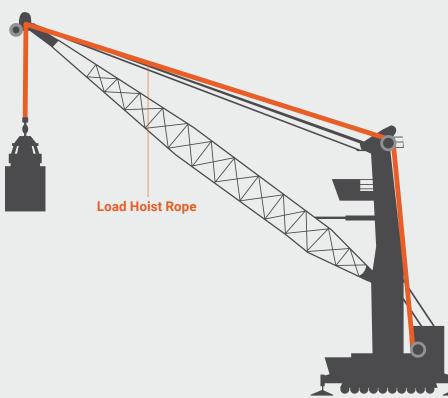


DFS 8

8-strand non-rotation-resistant rope with swaged strands and rope core.

RTG CRANE

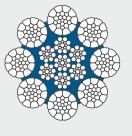
MOBILE HARBOR CRANE



ROTATION RESISTANT WIRE ROPES

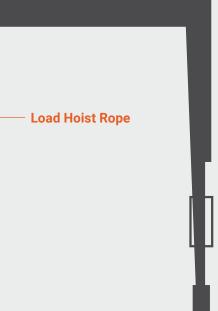
ROTATION RESISTANT WIRE ROPES

NON-ROTATION RESISTANT WIRE ROPES

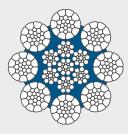


DFC 8P 🛑

8-strand non-rotation resistant rope used in pairs (Right and Left Lays).



NON-ROTATION RESISTANT WIRE ROPES



DFC 8P 🔴

8-strand non-rotation-resistant compacted rope with rope core covered with plastic.

DISCARD CRITERIA

A frequently used discard criteria is based on visible broken wires per the International Standard, ISO 4309. Please note that the RCN might change with the diameter of the rope. The RCN might also depend on the construction,

the crane type (classification) and the whether it is a single or multi-layer drum. For tuther information, please contact your Alps representative.

NON-ROTATION RESISTANT WIRE ROPES

	Number of outer strand and total number of load- bearing wires in the outer layers of strands in the rope (n)	Rope Category Number (RCN)	Number of visible broken outer wires ^a (ISO 4309)							
Alps Specialty Wire Rope				pe working in ste yer drum (wire b	Sections of rope spooling on a multi-layer drum ^b					
			сі	assed M1 to M4	All classes					
			Ordinary Lay		Lang Lay		Ordinary Lay	Lang Lay		
			Over a length of 6d ^d	Over a length of 30d ^d	Over a length of 6d ^d	Over a length of 30d ^d	Over a length of 6d ^d	Over a length of 30d ^d		
	152	04	5	10	2	5	10	20		
DFC 8P DFC 8	208	09	9	18	4	9	18	36		
DFS 8 UNIQ 8	248	11	10	21	5	10	20	42		
	288	13	12	24	6	12	24	48		

ROTATION-RESISTANT WIRE ROPES

	Number of outer strand and total number of load- bearing wires in the outer layers of strands in the rope (n)	Rope Category Number (RCN)	Number of visible broken outer wires ^a (ISO 4309)					
Alps Specialty Wire Rope			Sections of rope wor and/or spooling on a s breaks random	ingle-layer drum (wire	Sections of rope spooling on a multi-layer drum ^b			
			Over a length of 6d ^d	Over a length of 30d ^d	Over a length of 6d ^d	Over a length of 30d ^d		
DEC 10	84	23-1	2	4	4	8		
DFC 19	228	28	5	10	10	19		
DFC 34	112	23-2	3	5	5	10		

SAFETY INFORMATION

Wire rope must be properly transported, stored, installed, and maintained. Always inspect wire rope and rope terminations for wear, damage, or abuse before using them. Never overload or shock load a wire rope.



WARRANTY All statements, technical information and recommendations contained in this catalog are believed to be accurate and reliable. HOWEVER, NO GUARANTEE IS GIVEN AS TO THEIR ACCURACY OR COMPLETENESS. While every attempt has been made to ensure accuracy in the content in this catalog, it does not constitute part of any contract. The user must determine the correct application, handling, and storage and regularly conduct proper inspections and adequate maintenance. In no event shall Alps Wire Rope Corporation or any of its affiliates assume the responsibility for any consequential or incidental damages or secondary charges incurred in connection with the use of its products, including but not limited to personal injury, labor costs, a loss of profits from the direct or indirect use of the said product.

a) A broken wire has two ends

- b) The values apply to deterioration that occurs at the cross-over zones and interference between wraps due to fleet angle effect (and not to those sections of rope that only work in sheaves and do not spool on the drum).
- c) Twice the number of broken wires listed may be applied to ropes on mechnaisms whose classificaiton is know to be M5 to M8. d) d = nominal diameter of the rope



WIRE ROPE WILL FAIL IF WORN OUT, SHOCK LOADED, OVERLOADED, MISUSED, DAMAGED, IMPROPERLY MAINTAINED, OR ABUSED.

Failure of wire rope may cause serious injury or death!

- Protect yourself and others:
- Inform yourself: Read and understand the guidance on product
- safety given in this catalog or "Alps Handling Brochure."
- Refer to applicable regulations, standards, and codes





• **a ps** wire rope[®] **PEAK PERFORMANCE**

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