



Diepa[®]

PORT APPLICATION ROPES

**DIEPA RELIABLE WIRE ROPES –
QUALITY MADE IN GERMANY**

For decades DIEPA has been acknowledged as the leading brand of high-performance wire rope for use in the most demanding lifting and specialist applications.

Moreover, the outstanding quality and performance of DIEPA special wire ropes has provided opportunities for our valued customers to benefit from reduced total cost of ownership (TCO), thus underlining the continued acceptance and appreciation of our products in multiple fields of use around the world.

With optimised rope constructions for the port sector we offer our expertise gained over years to designers, operators and users of port equipment and applications.





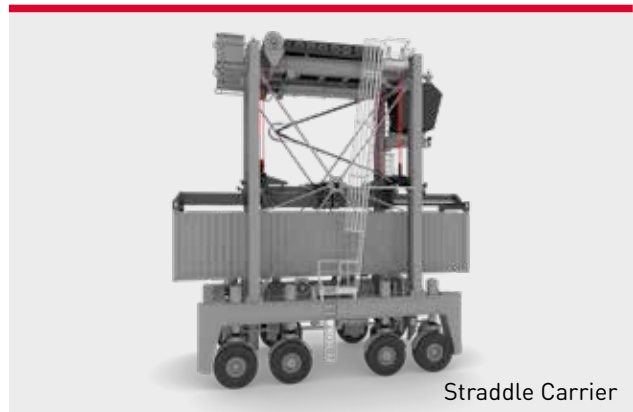
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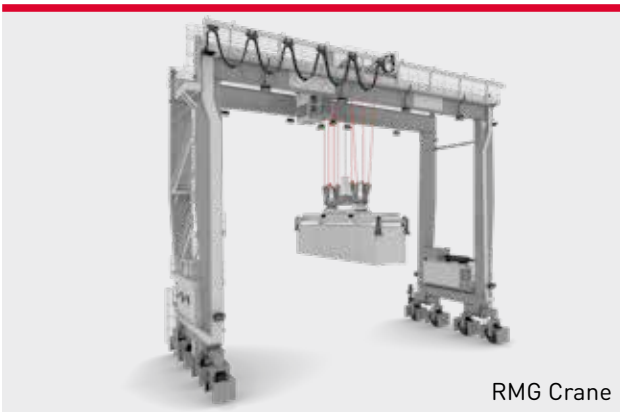
RELIABLE WIRE ROPES FOR THE PORT INDUSTRY



STS Crane



Straddle Carrier

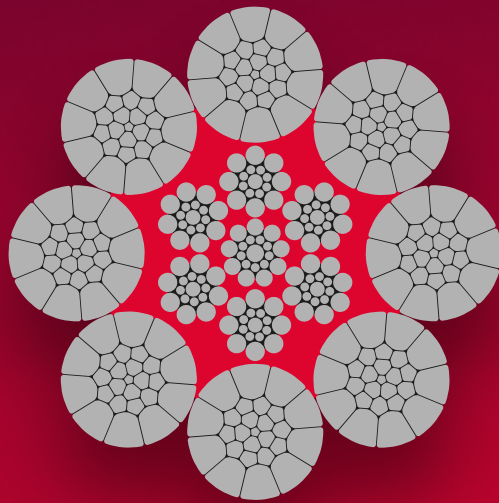


RMG Crane



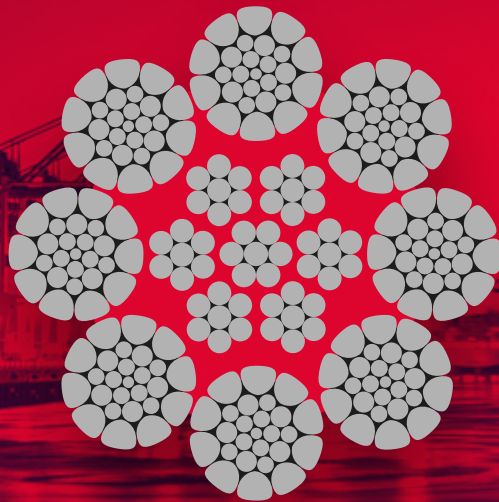
Harbour Crane

With optimised rope constructions for the port sector we offer our expertise gained over the years to designers, operators and users of STS, RMG, MHC, ASC and other related high duty equipment and applications.



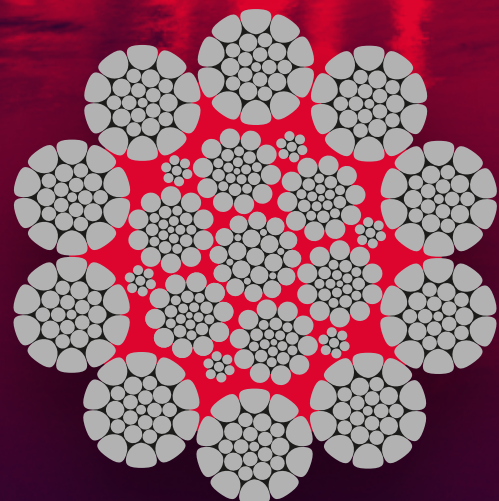
DIEPA X 53

standard variant



DIEPA X 53 E

eco variant

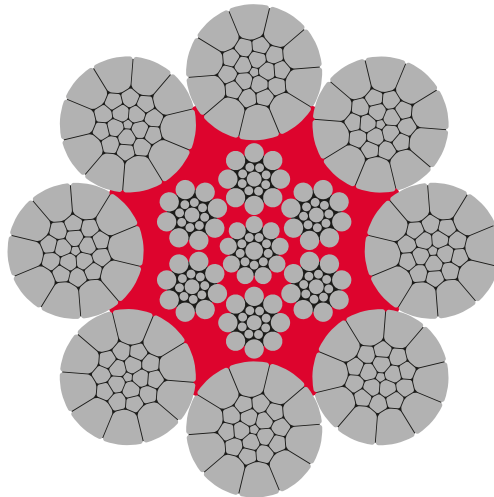
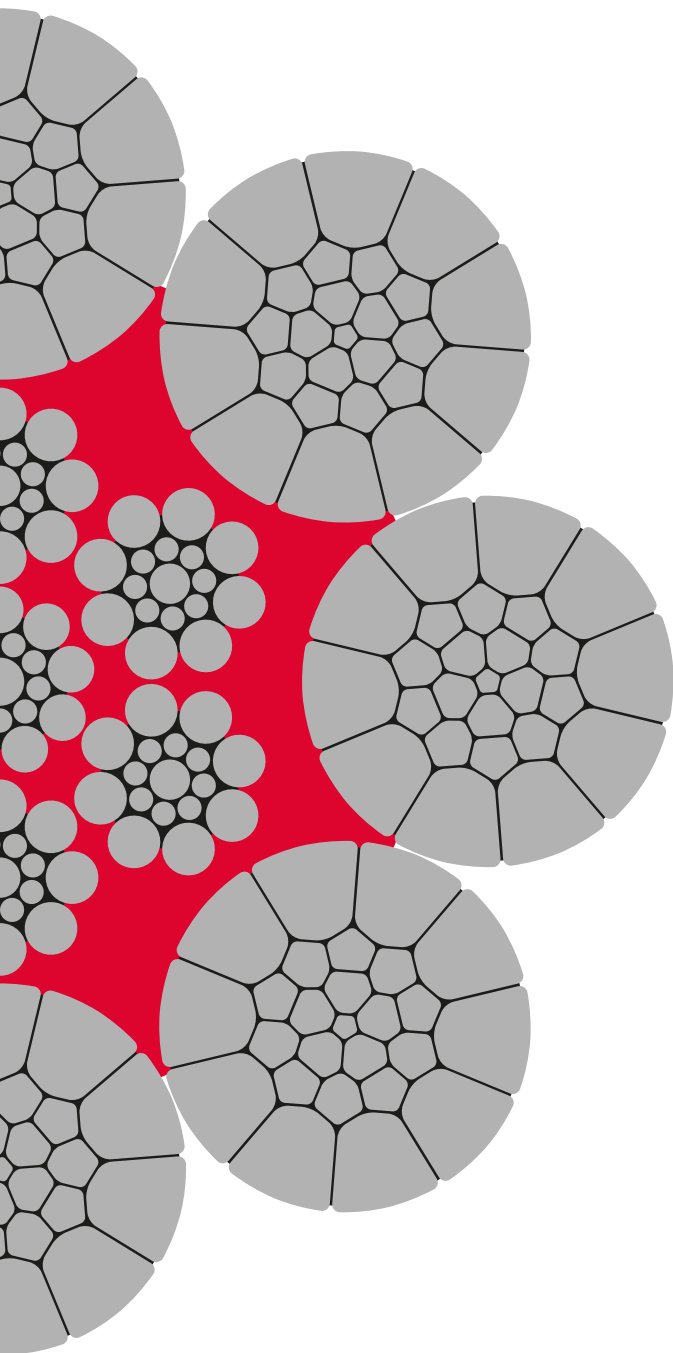


DIEPA L 53

premium variant

DIEPA X 53

standard variant



ROPE DESIGN OPTIONS

DIEPA X 53

Ordinary lay with internal plastic component

PROPERTIES

- Non-rotation resistant
- Compacted outer strands
- High breaking force
- Use without rope swivel

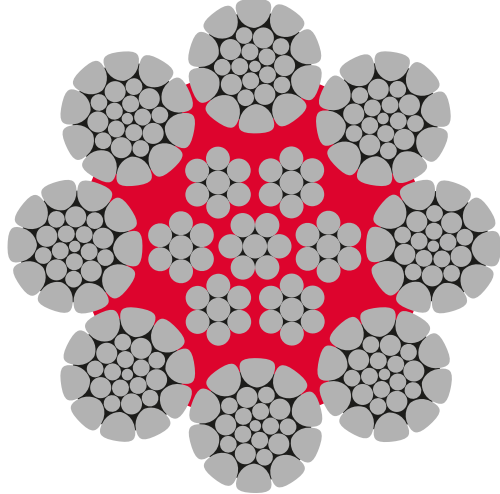
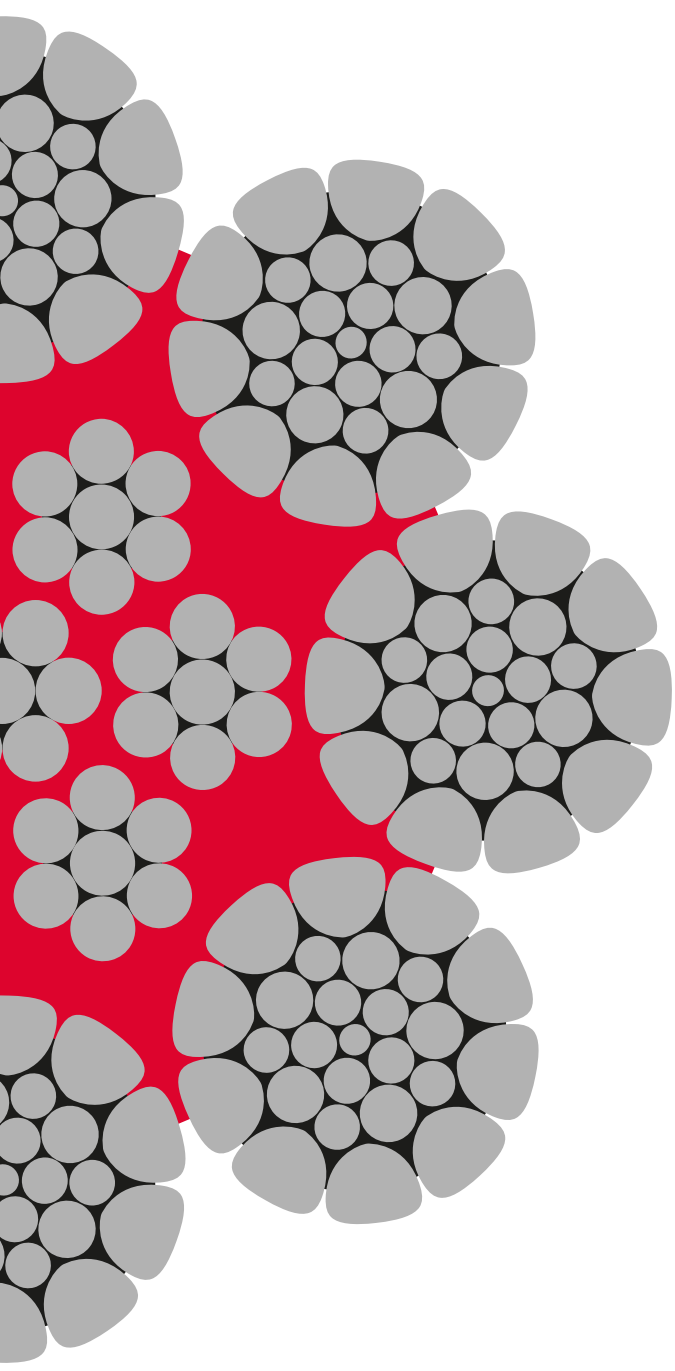
TECHNICAL DATA

Load-bearing wires	152	Ø 12 – 14 mm	RCN.04
in outer strands/	208	Ø 15 – 43 mm	RCN.09
RCN acc. to ISO 4309	288	Ø 44 – 54 mm	RCN.13
Total number	201	Ø 12 – 14 mm	
of wires	329	Ø 15 – 43 mm	
	409	Ø 44 – 54 mm	
Fill factor	0.6750		
Spinning loss factor	0.8500	at 1770 N/mm ²	
	0.8500	at 1960 N/mm ²	
	0.8400	at 2160 N/mm ²	

Diameter		Weight kg/100m	Min. breaking force 1770 N/mm ²			Min. breaking force 1960 N/mm ²			Min. breaking force 2160 N/mm ²		
mm	inch		kN	metric tons	lbs	kN	metric tons	lbs	kN	metric tons	lbs
12		68	115	11.7	25 500	128	13.0	28 500	139	14.2	30 900
	½	76	129	13.1	28 800	142	14.5	32 000	155	15.8	34 800
13		80	135	13.8	30 000	150	15.3	33 500	163	16.6	36 300
14		92	156	15.9	34 900	173	17.6	38 800	188	19.2	42 200
	⅜	96	163	16.6	36 400	180	18.3	40 500	196	20.0	44 000
15		106	179	18.2	40 100	199	20.3	44 600	217	22.1	48 500
	⅝	119	201	20.5	45 000	223	22.7	50 000	242	24.7	54 400
16		121	204	20.8	45 600	226	23.0	50 700	246	25.1	55 200
17		136	230	23.4	51 500	255	26.0	57 300	278	28.3	62 300
18		153	258	26.3	57 800	286	29.2	64 200	312	31.8	69 800
19		170	288	29.4	64 300	319	32.5	71 600	347	35.4	77 900
	¾	171	289	29.5	64 800	321	32.7	72 000	349	35.6	78 300
20		189	319	32.5	71 400	354	36.1	79 300	385	39.2	86 300
21		208	352	35.9	78 700	389	39.7	87 500	424	43.2	95 100
22		228	386	39.3	86 400	428	43.6	96 100	465	47.4	104 300
	⅞	233	394	40.2	88 300	436	44.4	98 100	475	48.4	106 600
23		250	422	43.0	94 400	468	47.7	104 900	509	51.9	114 000
24		272	459	46.8	102 900	509	51.9	114 300	554	56.5	124 300
25		295	498	50.8	111 600	552	56.3	124 100	601	61.3	134 800
	1	304	515	52.5	115 300	570	58.1	128 100	621	63.3	139 300
26		319	539	54.9	120 800	597	60.9	134 200	650	66.3	145 800
27		344	581	59.2	130 200	643	65.5	144 700	701	71.5	157 400
28		370	626	63.8	140 100	693	70.6	155 600	754	76.9	169 200
	1 ⅛	385	651	66.4	145 900	721	73.5	162 200	785	80.0	176 300
29		397	671	68.4	150 300	743	75.7	166 900	809	82.5	181 500
30		425	718	73.2	160 800	795	81.0	178 600	866	88.3	194 300
31		457	772	78.7	172 900	855	87.2	192 200	932	95.0	208 900
	1 ¼	476	804	82.0	180 200	890	90.7	200 200	970	98.9	217 700
32		487	823	83.9	184 300	911	92.9	204 800	992	101	222 700
33		518	875	89.2	196 000	969	98.8	217 900	1 055	107	236 800
34		549	929	94.7	208 200	1 030	104	231 300	1 121	114	251 500
	1 ⅝	576	973	99.2	218 100	1 077	109	242 300	1 173	119	263 400
35		582	984	100	220 500	1 090	111	245 000	1 187	120	266 400
36		616	1 041	106	233 300	1 153	117	259 200	1 256	128	281 800
37		651	1 100	112	246 800	1 221	124	274 200	1 328	135	298 100
38		686	1 168	119	262 400	1 298	132	291 600	1 413	144	317 100
	1 ½	688	1 173	119	263 500	1 303	132	292 900	1 417	144	318 400
39		723	1 222	124	273 900	1 353	137	304 300	1 474	150	330 900
40		761	1 285	130	288 100	1 424	145	320 200	1 551	158	347 900
41		799	1 351	137	302 600	1 496	152	336 400	1 629	166	365 700
	1 ⅞	804	1 359	138	304 600	1 505	153	338 400	1 639	167	367 900
42		838	1 418	144	318 200	1 574	160	353 600	1 713	174	384 300
43		879	1 486	151	332 800	1 645	167	369 900	1 792	182	402 100
44		920	1 556	158	348 600	1 723	175	387 300	1 876	191	421 100
	2	932	1 576	160	353 200	1 745	177	392 500	1 901	193	426 700
45		955	1 615	164	361 900	1 788	182	402 200	1 948	198	437 200
46		1 006	1 700	173	381 000	1 883	191	423 500	2 050	208	460 300
47		1 042	1 762	179	394 800	1 951	198	438 800	2 125	216	476 900
	2 ⅛	1 070	1 809	184	405 500	2 003	204	450 600	2 182	222	489 800
48		1 095	1 851	188	414 900	2 050	208	461 000	2 233	227	501 200
49		1 133	1 915	195	429 200	2 121	216	476 900	2 309	235	518 500
50		1 188	2 009	204	450 200	2 224	226	500 300	2 423	246	543 800
	2	1 218	2 058	209	461 400	2 279	232	512 700	2 482	253	557 300
51		1 227	2 075	211	465 000	2 298	234	516 600	2 502	255	561 700
52		1 285	2 173	221	486 900	2 406	245	541 100	2 620	267	588 200
53		1 325	2 241	228	502 200	2 481	252	557 900	2 702	275	606 500
	2 ⅝	1 375	2 324	236	520 900	2 573	262	578 800	2 802	285	629 200
54		1 386	2 343	238	525 200	2 594	264	583 500	2 826	288	634 300

DIEPA X 53 E

eco variant



ROPE DESIGN OPTIONS

DIEPA X53 E

Ordinary lay with internal plastic component

PROPERTIES

- Non-rotation resistant
- Compacted outer strands
- High breaking force
- Use without rope swivel

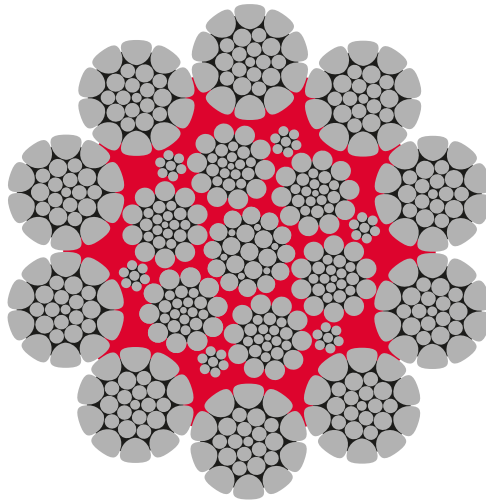
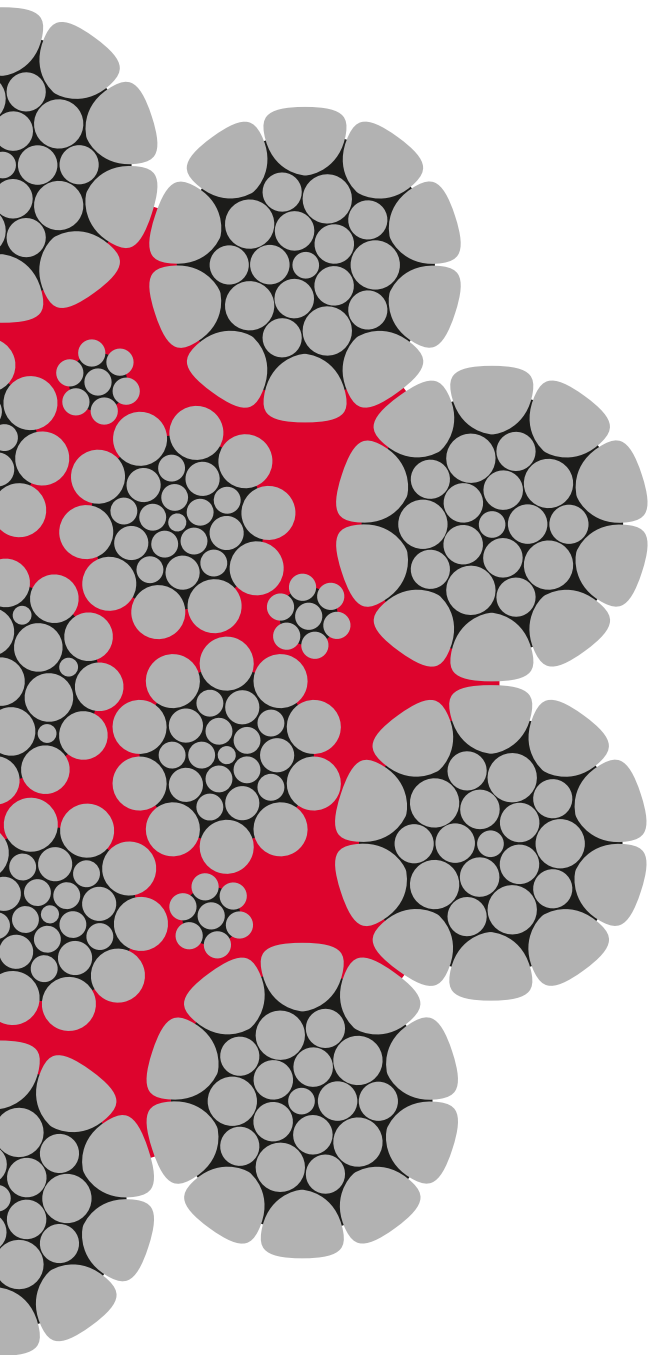
TECHNICAL DATA

Load-bearing wires	152	Ø 12 – 14 mm	RCN.04
in outer strands/	208	Ø 15 – 43 mm	RCN.09
RCN acc. to ISO 4309	288	Ø 44 – 54 mm	RCN.13
Total number	201	Ø 12 – 14 mm	
of wires	257	Ø 15 – 43 mm	
	288	Ø 44 – 54 mm	
Fill factor	0.6750		
Spinning loss factor	0.8500	at 1770 N/mm ²	
	0.8500	at 1960 N/mm ²	
	0.8400	at 2160 N/mm ²	

Diameter		Weight kg/100m	Min. breaking force 1770 N/mm ²			Min. breaking force 1960 N/mm ²			Min. breaking force 2160 N/mm ²		
mm	inch		kN	metric tons	lbs	kN	metric tons	lbs	kN	metric tons	lbs
12		68	115	11.7	25 500	128	13.0	28 500	139	14.2	30 900
	½	76	129	13.1	28 800	142	14.5	32 000	155	15.8	34 800
13		80	135	13.8	30 000	150	15.3	33 500	163	16.6	36 300
14		92	156	15.9	34 900	173	17.6	38 800	188	19.2	42 200
	⅜	96	163	16.6	36 400	180	18.3	40 500	196	20.0	44 000
15		106	179	18.2	40 100	199	20.3	44 600	217	22.1	48 500
	⅝	119	201	20.5	45 000	223	22.7	50 000	242	24.7	54 400
16		121	204	20.8	45 600	226	23.0	50 700	246	25.1	55 200
17		136	230	23.4	51 500	255	26.0	57 300	278	28.3	62 300
18		153	258	26.3	57 800	286	29.2	64 200	312	31.8	69 800
19		170	288	29.4	64 300	319	32.5	71 600	347	35.4	77 900
	¾	171	289	29.5	64 800	321	32.7	72 000	349	35.6	78 300
20		189	319	32.5	71 400	354	36.1	79 300	385	39.2	86 300
21		208	352	35.9	78 700	389	39.7	87 500	424	43.2	95 100
22		228	386	39.3	86 400	428	43.6	96 100	465	47.4	104 300
	⅞	233	394	40.2	88 300	436	44.4	98 100	475	48.4	106 600
23		250	422	43.0	94 400	468	47.7	104 900	509	51.9	114 000
24		272	459	46.8	102 900	509	51.9	114 300	554	56.5	124 300
25		295	498	50.8	111 600	552	56.3	124 100	601	61.3	134 800
	1	304	515	52.5	115 300	570	58.1	128 100	621	63.3	139 300
26		319	539	54.9	120 800	597	60.9	134 200	650	66.3	145 800
27		344	581	59.2	130 200	643	65.5	144 700	701	71.5	157 400
28		370	626	63.8	140 100	693	70.6	155 600	754	76.9	169 200
	1 ⅛	385	651	66.4	145 900	721	73.5	162 200	785	80.0	176 300
29		397	671	68.4	150 300	743	75.7	166 900	809	82.5	181 500
30		425	718	73.2	160 800	795	81.0	178 600	866	88.3	194 300
31		457	772	78.7	172 900	855	87.2	192 200	932	95.0	208 900
	1 ¼	476	804	82.0	180 200	890	90.7	200 200	970	98.9	217 700
32		487	823	83.9	184 300	911	92.9	204 800	992	101	222 700
33		518	875	89.2	196 000	969	98.8	217 900	1 055	107	236 800
34		549	929	94.7	208 200	1 030	104	231 300	1 121	114	251 500
	1 ⅝	576	973	99.2	218 100	1 077	109	242 300	1 173	119	263 400
35		582	984	100	220 500	1 090	111	245 000	1 187	120	266 400
36		616	1 041	106	233 300	1 153	117	259 200	1 256	128	281 800
37		651	1 100	112	246 800	1 221	124	274 200	1 328	135	298 100
38		686	1 168	119	262 400	1 298	132	291 600	1 413	144	317 100
	1 ½	688	1 173	119	263 500	1 303	132	292 900	1 417	144	318 400
39		723	1 222	124	273 900	1 353	137	304 300	1 474	150	330 900
40		761	1 285	130	288 100	1 424	145	320 200	1 551	158	347 900
41		799	1 351	137	302 600	1 496	152	336 400	1 629	166	365 700
	1 ⅞	804	1 359	138	304 600	1 505	153	338 400	1 639	167	367 900
42		838	1 418	144	318 200	1 574	160	353 600	1 713	174	384 300
43		879	1 486	151	332 800	1 645	167	369 900	1 792	182	402 100
44		920	1 556	158	348 600	1 723	175	387 300	1 876	191	421 100
	2	932	1 576	160	353 200	1 745	177	392 500	1 901	193	426 700
45		955	1 615	164	361 900	1 788	182	402 200	1 948	198	437 200
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47		1 042	1 762	179	394 800	1 951	198	438 800	2 125	216	476 900
	2 ⅛	1 070	1 809	184	405 500	2 003	204	450 600	2 182	222	489 800
48		1 095	1 851	188	414 900	2 050	208	461 000	2 233	227	501 200
49		1 133	1 915	195	429 200	2 121	216	476 900	2 309	235	518 500
50		1 188	2 009	204	450 200	2 224	226	500 300	2 423	246	543 800
	2	1 218	2 058	209	461 400	2 279	232	512 700	2 482	253	557 300
51		1 227	2 075	211	465 000	2 298	234	516 600	2 502	255	561 700
52		1 285	2 173	221	486 900	2 406	245	541 100	2 620	267	588 200
53		1 325	2 241	228	502 200	2 481	252	557 900	2 702	275	606 500
	2 ⅝	1 375	2 324	236	520 900	2 573	262	578 800	2 802	285	629 200
54		1 386	2 343	238	525 200	2 594	264	583 500	2 826	288	634 300

DIEPA L 53

premium variant



ROPE DESIGN OPTIONS

DIEPA L 53

Ordinary lay with internal plastic component

PROPERTIES

- Non-rotation resistant
- Compacted outer strands
- 10-strand construction optimised for breaking load
- Use without rope swivel

TECHNICAL DATA

Load-bearing wires in outer strands/ RCN acc. to ISO 4309	260 Ø 12–54 mm	RCN.11
Total number of wires	483 Ø 12–54 mm	
Fill factor	0.6940	
Spinning loss factor	0.8400 at 1770 N/mm ² 0.8400 at 1960 N/mm ² 0.8300 at 2160 N/mm ²	

Diameter		Weight kg/100m	Min. breaking force 1770 N/mm ²			Min. breaking force 1960 N/mm ²			Min. breaking force 2160 N/mm ²		
mm	inch		kN	metric tons	lbs	kN	metric tons	lbs	kN	metric tons	lbs
12		71	116	11.9	26 200	129	13.2	29 000	140	14.3	31 600
	½	79	130	13.3	29 400	144	14.8	32 500	157	16.1	35 400
13		83	136	14.0	30 800	151	15.5	34 100	165	16.8	37 100
14		96	158	16.2	35 700	175	17.9	39 500	191	19.5	43 000
	⅝	100	165	16.9	37 200	183	18.7	41 200	199	20.3	44 800
15		110	182	18.6	41 000	201	20.6	45 400	219	22.4	49 400
	⅞	124	204	20.8	45 900	226	23.1	50 900	246	25.1	55 400
16		126	207	21.1	46 600	229	23.4	51 600	250	25.5	56 200
17		142	234	23.9	52 600	259	26.4	58 300	282	28.8	63 500
18		159	262	26.8	59 000	290	29.6	65 300	316	32.3	71 200
19		177	292	29.8	65 700	323	33.0	72 800	352	36.0	79 300
	¾	178	294	30.0	66 100	325	33.2	73 200	354	36.1	79 700
20		196	324	33.0	72 800	358	36.6	80 700	390	39.8	87 800
21		216	357	36.4	80 300	395	40.3	88 900	430	43.9	96 800
22		237	392	40.0	88 100	434	44.3	97 600	472	48.2	106 300
	⅞	242	400	40.8	89 900	443	45.2	99 600	482	49.2	108 400
23		260	428	43.7	96 300	474	48.4	106 700	516	52.7	116 200
24		283	466	47.6	104 900	516	52.7	116 200	562	57.4	126 500
25		307	506	51.6	113 800	560	57.2	126 000	610	62.3	137 300
	1	316	522	53.3	117 500	578	59.0	130 100	630	64.3	141 700
26		332	547	55.8	123 100	606	61.8	136 300	660	67.3	148 500
27		358	590	60.2	132 800	654	66.7	147 000	712	72.6	160 100
28		385	635	64.8	142 800	703	71.7	158 100	766	78.1	172 200
	1 ⅛	401	661	67.5	148 800	733	74.7	164 700	798	81.4	179 400
29		413	681	69.5	153 200	754	76.9	169 600	821	83.8	184 700
30		442	729	74.3	163 900	807	82.3	181 500	879	89.7	197 600
31		471	778	79.4	175 000	862	87.9	193 800	939	95.7	211 000
	1 ¼	495	816	83.3	183 600	904	92.2	203 300	985	100	221 400
32		502	829	84.6	186 500	918	93.7	206 500	1 000	102	224 900
33		534	882	90.0	198 300	977	99.6	219 600	1 064	108	239 100
34		567	936	95.5	210 500	1 037	105	233 100	1 129	115	253 900
	1 ⅝	599	988	100	222 200	1 094	111	246 100	1 192	121	267 900
35		601	992	101	223 100	1 099	112	247 000	1 197	122	269 000
36		636	1 050	107	236 000	1 163	118	261 400	1 266	129	284 600
37		672	1 109	113	249 300	1 228	125	276 100	1 337	136	300 600
38		708	1 170	119	263 000	1 295	132	291 200	1 411	143	317 100
	1 ½	712	1 176	119	264 400	1 302	132	292 700	1 418	144	318 800
39		746	1 232	125	277 000	1 364	139	306 700	1 486	151	334 000
40		785	1 296	132	291 400	1 435	146	322 700	1 563	159	351 400
41		825	1 362	138	306 100	1 508	153	339 000	1 642	167	369 200
	1 ⅞	836	1 380	140	310 300	1 529	155	343 700	1 665	169	374 200
42		865	1 429	145	321 300	1 583	161	355 700	1 723	175	387 400
43		907	1 498	152	336 700	1 659	169	372 900	1 806	184	406 000
44		950	1 568	159	352 600	1 737	177	390 400	1 891	192	425 200
	2	969	1 601	163	359 800	1 773	180	398 500	1 930	196	433 900
45		993	1 641	167	368 800	1 817	185	408 400	1 978	201	444 700
46		1 038	1 714	174	385 400	1 898	193	426 700	2 067	210	464 700
47		1 084	1 790	182	402 300	1 982	202	445 500	2 158	220	485 100
	2 ⅛	1 113	1 838	187	413 200	2 035	207	457 500	2 216	225	498 200
48		1 130	1 867	190	419 600	2 067	210	464 600	2 251	229	506 000
49		1 178	1 945	198	437 300	2 154	219	484 200	2 346	239	527 300
50		1 226	2 026	206	455 300	2 243	228	504 200	2 442	249	549 000
	2	1 266	2 091	213	470 000	2 315	236	520 400	2 521	257	566 700
51		1 276	2 107	214	473 700	2 334	237	524 500	2 541	259	571 200
52		1 326	2 191	223	492 500	2 426	247	545 300	2 642	269	593 800
53		1 378	2 276	232	511 600	2 520	256	566 500	2 744	279	616 900
	2 ⅝	1 429	2 361	240	530 700	2 614	266	587 600	2 847	290	639 900
54		1 430	2 363	240	531 100	2 616	266	588 100	2 849	290	640 400



As of 05/2025 – We reserve the right to make alterations resulting from technical developments. The representations are schematic and intended as examples. The actual construction depends on the rope diameter. We can accept no liability for mistakes and printing errors

QUALITY

RELIABILITY

SAFETY

SUSTAINABILITY

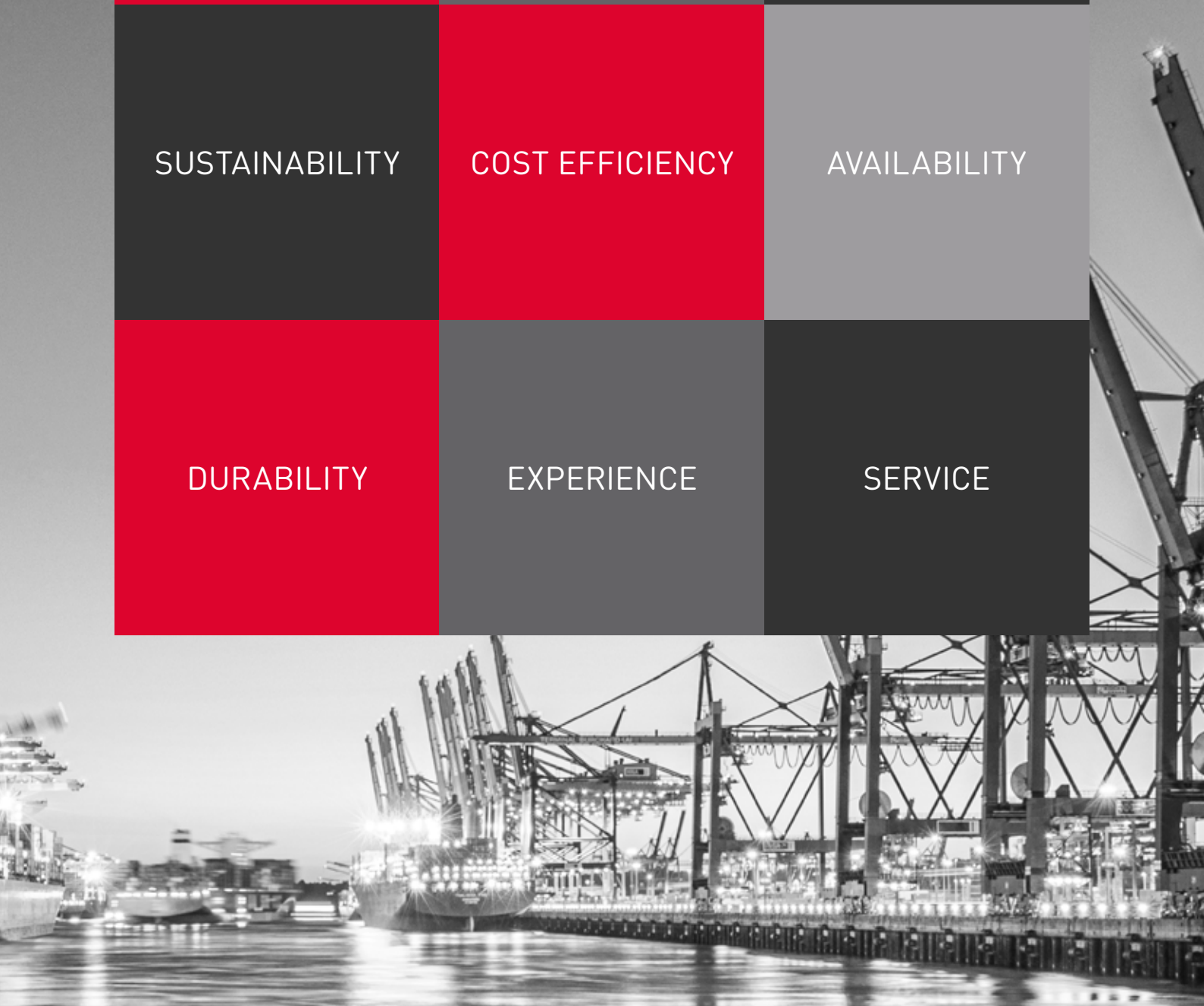
COST EFFICIENCY

AVAILABILITY

DURABILITY

EXPERIENCE

SERVICE



ROPE TERMINATIONS FOR INSTALLATION & PERMANENT USE

Tailor-made rope terminations for installation meeting the requirements of ISO 16841 and for permanent use according to EN 13411



PULLING EYES

- Available in various designs and sizes
- **For single use**
- Marked with save work load limit according to **ISO 16841**

SWAGINGS

- Executed with aluminium or steel ferrule
- **90 %** rope breaking force efficiency
- Execution according to **EN 13411-3**
- Available with all kinds of thimbles like e. g. DIN 3090, DIN 3091, EN 13411-9, heavy-duty-thimble, etc.

SOCKETING

- Executed with resin or molten metal
- **100 %** rope breaking force efficiency
- Execution according to **EN 13411-4**
- Available with all kinds of sockets like e. g. pear sockets, open sockets, closed sockets or customised solutions

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