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# WIRE ROPE



New paradigm for your business

**D|S|R** DSR CORP  
DSR WIRE CORP

# in association with customers

## Working with Customers

to our customers' needs, and we will always place our customers' considerations before our own. Our customer care and solutions have been structured to honor this commitment, bringing together best systems and quality products for customer satisfaction is to keep our customers satisfied products and services.

## Insurance System

reach the perfection of the quality. To achieve this goal, we have in-place quality assurance system, under which we reach the ISO 9001 : 2008, TS16949 : 2009, CE, KS, JIS, Lloyd's, ABS, DNV, NK, CCS, API, BV certificates and more.

## Products! - DSR

available in whole categories of rope and wire industry(steel, stainless, fiber). With us, you don't have to waste your time to find what are providing the fastest business services and after services to meet the satisfaction of your convenience.

## perfect product quality system

quality is still on improving, by running individual R&D facilities. We have got certification of ISO 9001: 2008, TS16949 : 2009, Lloyd's, JIS and CE mark, admission of factory from classifications, such as KR, LLOYD'S, ABS, DNV, BV, CCS, API, GL.

## Endless innovation

technical laboratory individually, to develop our unique Fiber. High carbon steel wire & wire rope, and also for Stainless wire & wire rope. In innovative mind, we create and guarantee our technology of wire rope and stainless steel wire(KR, KS, ISO 9001: 2008, TS16949

## industry

carrier, DSR possesses high quality certification in fiber, wire and wire rope industry, such as TS16949 : 2009, ISO 9001:2008, KS, KR, Lloyd's, BV, DNV, CCS, GL. By developing special items, we always considerate to meet customer's satisfaction, and drawing DSR into your mind.

## Let DSR over the world

we have been widely recognized so that you can meet DSR in hundreds of country through the five oceans and as we encourage our brand power.

*world's best wire, rope and sling manufacturer with a happy and*

*customer base will create a bright future for us all.*

*look forward to working with you, and trust that we can serve you well.*

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General Purpose	Offshore	Crane	Mooring	Logging	Elevator	General Engineering	Sling / Lashing	Mining	Non-Rotating Rope
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# PowerMax Rope

unique drawing technique, our wire ropes ensure high ductility, our wire ropes consist of very fine wires and brand new model of heat treatment equipment and unique technique.

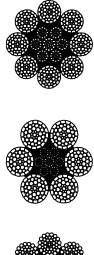
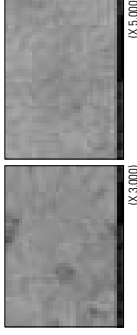
## PowerMax rope and excellent life time

will fit to customers' special needs.

for Lubrication and Rope Construction.

the DSR's own brand name for large diameter wire ropes used for offshore industry and various mining applications.

VERY FINE MICROSTRUCTURE PHOTO



Powerflex 6, Powerflex 8 (Metric Ton)	Approximate Weight 6×ROPE			Approximate Weight 8×ROPE			Offshore Powerflex 6, Powerflex 8 (Metric Ton)						Approximate Weight 6×ROPE	Approximate Weight 8×ROPE
	EEIPS	Z GRADE	ZZ GRADE	Kg/m	EIPS	Z GRADE	ZZ GRADE	Z GRADE	ZZ GRADE	ZZ GRADE	Kg/m	Kg/m	Kg/m	Kg/m
197	226	234	244	11.3	199	218	246	259	270	12.1	12.2	12.2	12.2	
206	236	245	258	11.8	201	220	252	271	283	12.7	12.8	12.8	12.8	
221	243	255	264	12.8	224	245	269	281	284	13.7	13.8	13.8	13.8	
238	262	274	284	13.7	241	264	290	326	306	14.7	14.9	14.9	14.9	
247	278	290	302	14.3	250	275	306	323	326	15.3	15.5	15.5	15.5	
254	285	299	311	14.7	257	283	315	333	336	15.8	15.9	15.9	15.9	
274	300	315	327	15.9	281	307	340	349	363	17.1	17.2	17.2	17.2	
301	337	355	369	17.7	304	336	375	394	398	18.9	19.1	19.1	19.1	
330	371	390	407	19.5	333	367	413	435	439	20.9	21.1	21.1	21.1	
360	411	430	448	21.4	364	401	452	475	484	22.9	23.1	23.1	23.1	
372	424	444	463	22.1	376	414	467	491	500	23.7	23.9	23.9	23.9	
392	449	470	490	23.4	392	435	487	520	529	25.0	25.3	25.3	25.3	
403	461	483	503	24.0	403	447	510	534	543	25.7	25.9	25.9	25.9	
425	488	516	538	25.4	423	472	545	574	581	27.3	27.5	27.5	27.5	
434	498	527	549	26.0	432	482	557	586	593	27.8	28.1	28.1	28.1	
458	523	550	572	27.6	458	508	579	610	618	29.6	29.8	29.8	29.8	
493	560	587	611	29.8	494	548	618	652	658	32.0	32.3	32.3	32.3	
498	566	593	618	30.2	499	554	625	659	676	32.3	32.6	32.6	32.6	
528	607	639	666	32.2	527	586	674	707	719	34.5	34.8	34.8	34.8	
544	625	658	686	33.1	543	604	694	728	741	35.5	35.8	35.8	35.8	
563	659	692	723	34.6	565	627	735	770	781	37.1	37.4	37.4	37.4	
577	675	709	741	35.5	579	643	753	788	800	38.0	38.4	38.4	38.4	
640	716	752	785	39.7	642	713	795	836	848	42.6	43.0	43.0	43.0	
650	727	764	797	40.4	652	724	808	849	861	43.3	43.6	43.6	43.6	
720	796	836	874	45.2	719	799	894	928	943	48.5	48.9	48.9	48.9	
740	818	859	898	46.5	739	821	909	954	969	50.2	50.2	50.2	50.2	
788	845	887	928	51.0	796	884	978	1,027	1,047	55.2	55.2	55.2	55.2	
803	862	904	946	52.0	812	901	997	1,047	1,047	56.3	56.3	56.3	56.3	
876	939	986	1,031	57.2	874	971	1,074	1,127	1,146	61.9	61.9	61.9	61.9	
967	1,036	1,088	1,138	63.7	953	1,059	1,172	1,230	1,250	68.9	68.9	68.9	68.9	
989	1,059	1,112	1,164	65.2	974	1,083	1,198	1,258	1,278	70.5	70.5	70.5	70.5	
1,063	1,138	1,195	1,250	70.6	1,034	1,149	1,271	1,334	1,356	76.4	76.4	76.4	76.4	
1,080	1,156	1,214	1,270	71.7	1,050	1,167	1,291	1,355	1,377	77.6	77.6	77.6	77.6	
1,138	1,219	1,278	1,337	-	1,140	1,232	1,363	1,431	1,454	84.2	84.2	84.2	84.2	
1,166	1,249	1,310	1,370	-	-	-	-	-	-	-	-	-	-	
1,223	1,310	1,375	1,437	-	-	-	-	-	-	-	-	-	-	
1,246	1,334	1,401	1,464	-	-	-	-	-	-	-	-	-	-	
1,315	1,406	1,477	1,545	-	-	-	-	-	-	-	-	-	-	

# PowerAct Rope

## PowerAct 28, 28P

### PowerAct 28

- Very strong rotation - resistance
- Suitable rope for high lifting Tower crane
- High structural stability
- Extremely high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of which drum and sheave
- Excellent life time

### PowerAct 28P

- Very strong rotation - resistance
- Suitable rope for high lifting Tower crane
- High structural stability
- Extremely high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of which drum and sheave
- Excellent life time
- Prevents abrasion & breaking among internal wires
- Extremely reduced internal stress
- Plastic layer between the core and the outer strands

## PowerAct 28D, 28DP

### PowerAct 28D

- Very strong rotation - resistance
- Suitable rope for high lifting Tower crane
- High structural stability
- Extremely high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of which drum and sheave
- Excellent life time

### PowerAct 28DP

- Very strong rotation - resistance
- Suitable rope for high lifting Tower crane
- High structural stability
- Extremely high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of which drum and sheave
- Excellent life time



Nominal Dia.	Minimum Breaking Load (Metric Ton)		Approx.
	mm	inch	
14	186	198	220 Kg/mm <sup>2</sup> (2160 N/mm <sup>2</sup> )
14.3	19.4	20.7	
15	21.4	22.7	
16	24.3	25.9	
17.5	29.1	30.9	
18	30.7	32.7	
19	34.3	36.5	
20	38.0	40.4	
21	41.9	44.6	
22	45.9	48.9	
22.2	46.9	49.9	
24	54.7	58.2	
25	59.3	63.1	
25.4	61.2	65.2	
26	64.2	68.3	
28	74.4	79.2	



Nominal Dia.	Minimum Breaking Load (Metric Ton)		Approx.
	mm	inch	
14	19.4	20.8	220 Kg/mm <sup>2</sup> (2160 N/mm <sup>2</sup> )
14.3	20.2	21.7	
15	22.2	23.9	
16	25.3	27.1	
17.5	30.2	32.5	
18	32.0	34.4	
19	35.6	38.3	
20	39.5	42.4	
21	43.5	46.8	
22	47.8	51.3	
22.2	48.8	52.4	
24	56.9	61.1	
25	61.7	66.3	

# POWERACT 29, 29P

## PowerAct 29

- Very strong rotation - resistance
- Suitable rope for high lifting Tower crane
- High structural stability
- Extremely high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of which drum and sheave
- Excellent life time

## PowerAct 29P

- Very strong rotation - resistance
- Suitable rope for high lifting Tower crane
- High structural stability
- Extremely high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of which drum and sheave
- Excellent life time
- Prevents abrasion & breaking among internal wires
- Extremely reduces internal stress
- Elastic layer between the core and the outer strands



Tower Crane

Nominal Dia.	Minimum Breaking Load (Metric Ton)		Approx Weight	
	200 Kg/mm <sup>2</sup> (1860 N/mm <sup>2</sup> )	220 Kg/mm <sup>2</sup> (2160 N/mm <sup>2</sup> )		
mm	inch		Kg/m	
14		18.7	19.9	0.95
14.3	9/16	19.5	20.8	0.99
15		21.5	22.8	1.09
16	5/8	24.4	26.0	1.24
17.5	11/16	29.2	31.0	1.48
18		30.8	32.8	1.56
19	3/4	34.4	36.6	1.74
20		38.1	40.5	1.93
21	13/16	42.0	44.7	2.13
22		46.0	49.0	2.33
22.2	7/8	47.0	50.0	2.38
24	15/16	54.8	58.3	2.77
25		59.4	63.2	3.01
25.4	1	61.3	65.3	3.10
26	1-1/16	64.3	68.4	3.25
28		74.5	79.3	3.77



Tower Crane

# POWERACT 25D, 25DP

## PowerAct 25D

- Very strong rotation - resistance
- High structural stability
- Very high breaking load
- Excellent resistance to deformation
- Extended life of which drum and sheave
- Suitable rope for high lifting Tower crane
- Excellent life time

## PowerAct 25DP

- Very strong rotation - resistance
- High structural stability
- Very high breaking load
- Prevents abrasion & breaking among internal wires
- Excellent resistance to deformation
- Extremely reduces internal stress
- Extended life of which drum and sheave
- Elastic layer between the core and the outer strands
- Suitable rope for high lifting Tower crane
- Excellent life time

Deck Crane



Nominal Dia.	Minimum Breaking Load (Metric Ton)	
	180 Kg/mm <sup>2</sup> (1770 N/mm <sup>2</sup> )	200 Kg/mm <sup>2</sup> (1960 N/mm <sup>2</sup> )
mm	inch	
16	5/8	20.6
18	11/16	26.1
19	3/4	29.1
20		32.2
22		39.0
24	15/16	46.4
26		54.5
28		63.2
30	1-3/16	72.5
32		82.5

# POWERACT 4

## PowerAct 4

- Non-Rotating Characteristics
- Excellent Deforming Resistance
- Longer Fatigue Life
- Good Flexibility with fiber cores
- Strong Against Abrasion
- Excellent Life Time

# POWERACT 17D

## PowerAct 17D

- Extremely high breaking load  
(more than 13% higher Powerflex® at 220 grade)
- High structural stability
- Excellent life time
- Strong against abrasion
- Very high breaking load
- Excellent resistance to deformation
- Extended life of which drum and sheave
- Suitable rope for Special crane



Special Crane

# POWERACT 19

## PowerAct 19

- Rotation - Resistance
- High Structural Stability
- High Breaking Load
- Excellent Life Time

Nominal Dia.	Minimum Breaking Load (Metric Ton)		Approx Weight	
	200 Kg/mm <sup>2</sup> (1860 N/mm <sup>2</sup> )	220 Kg/mm <sup>2</sup> (2160 N/mm <sup>2</sup> )		
mm	inch		Kg/m	
14		18.7	20.2	1.00
14.3	9/16	19.5	21.1	1.04
15		21.5	23.2	1.16
16	5/8	24.4	26.4	1.33
17.5	11/16	29.2	31.5	1.59
18		30.9	33.4	1.68
19	3/4	34.4	37.2	1.85
20		38.2	41.2	2.08
21	13/16	42.1	45.4	2.25
22		46.2	49.9	2.49
22.2	7/8	47.1	50.9	2.54
24	15/16	55.0	59.3	2.90
25		59.6	64.4	3.15

Nominal Dia.	Minimum Breaking Load (Metric Ton)		Approx Weight	
	180 Kg/mm <sup>2</sup> (1770 N/mm <sup>2</sup> )	200 Kg/mm <sup>2</sup> (1960 N/mm <sup>2</sup> )		
mm	inch		Kg/m	
14		17.2	19.1	0.98
14.3	9/16	17.9	19.9	1.02
15		19.7	21.9	1.13
16	5/8	22.5	24.9	1.28
17.5	11/16	28.9	29.8	1.53
18		28.4	31.6	1.62
19	3/4	31.7	35.2	1.81
20		35.1	39.0	2.00
22		42.4	47.2	2.42
24	15/16	50.5	56.1	2.88
25		54.8	60.9	3.13
26	1-1/16	59.3	65.9	3.38
28		68.8	76.4	3.92

Nominal Dia.	Minimum Breaking Load (Metric Ton)	
	180 Kg/mm <sup>2</sup> (1770 N/mm <sup>2</sup> )	200 Kg/mm <sup>2</sup> (1960 N/mm <sup>2</sup> )
mm	inch	
16	5/8	19.3
17.5	11/16	23.1
18		24.4
19	3/4	27.2
20		30.1
22		36.4
24		43.4
25		47.1
26	1-1/16	50.9
28		59.0
28.6	1-1/8	61.6
30	1-3/16	67.8

# Powerflex Rope

By flattening the surface of outer wires of each strand, this plane Contacting Lay construction has flat / touch area of outer round strand type rope. This flat touch area enables longer life of each wire before breaking. While designing this construction, the optimal balance between high tensile strength, fatigue resistance, abrasion resistance, and structural stability, Powerflex is designed in various applications such as crane, fishing and mining.

## POWERFLEX 35, 35L

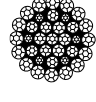
- Very strong rotation - resistance
- High structural stability
- Very high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of winch drum and sheave
- Suitable rope for high lifting Tower crane
- Excellent life time



Tower Crane

## POWERFLEX

- Very strong rotation - resistance
- High structural stability
- Very high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of winch drum and sheave
- Suitable rope for high lifting Tower crane
- Excellent Life Time



Tower Crane

Nominal Dia.	Minimum Breaking Load (Metric Ton)		Approx Weight
	200 Kg/mm <sup>2</sup> (1960 N/mm <sup>2</sup> )	220 Kg/mm <sup>2</sup> (2160 N/mm <sup>2</sup> )	
mm	inch	inch	Kg/m
14	1/2	1/2	1.00
14.3	9/16	20.4	1.04
15	1/2	22.5	1.15
16	5/8	25.6	1.31
17.5	11/16	30.6	1.56
18	3/4	32.4	1.65
19	3/4	36.1	1.84
20	1 1/8	40.0	2.04
21	1 1/8	44.1	2.25
22	1 1/4	48.4	2.47
22.2	7/8	49.4	2.52
24	1 1/2	57.6	2.94
25	1 1/2	62.5	3.19
25.4	1	64.5	3.29
26	1-1/16	67.6	3.45
28	1-1/8	78.4	4.00
28.6	1-1/8	81.8	4.17
30	1-3/16	90.0	4.59
31.8	1-1/4	101.1	5.16
32	1-1/4	102.4	5.22
34	1-1/2	115.6	5.90
35	1-3/8	122.5	6.25
36	1-3/8	129.6	6.61
38	1-3/4	144.4	7.37

Available upon request (Operation in poor condition is not recommended)

Nominal Dia.	Minimum Breaking Load (Metric Ton)	
	200 Kg/mm <sup>2</sup> (1960 N/mm <sup>2</sup> )	220 Kg/mm <sup>2</sup> (2160 N/mm <sup>2</sup> )
mm	inch	inch
14	1/2	19.5
14.3	9/16	20.4
15	1/2	22.5
16	5/8	25.6
17.5	11/16	28.5
18	3/4	30.2
19	3/4	33.6
20	1 1/8	37.2
21	1 1/8	41.0
22	1 1/4	45.0
22.2	7/8	46.0
24	1 1/2	53.6
25	1 1/2	58.2
25.4	1	60.0
26	1-1/16	62.9
28	1-1/8	73.0
28.6	1-1/8	76.1
30	1-3/16	83.8
31.8	1-1/4	94.1
32	1-1/4	95.3
34	1-1/2	107.6
35	1-3/8	114.0
36	1-3/8	120.6
38	1-3/4	134.4

Available upon request (Operation in poor condition is not recommended)

promises to keep  
proving customer service  
delivery standards.