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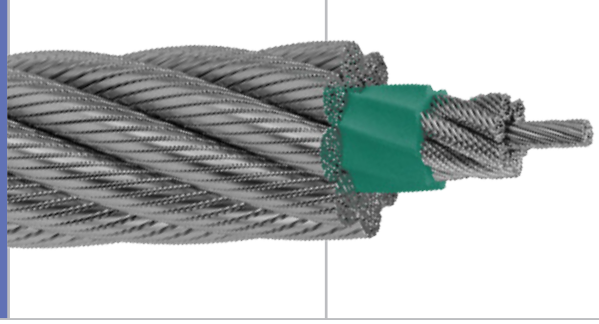
OFFSHORE OIL & GAS
STEEL WIRE ROPE

IPH®



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OFFSHORE OIL & GAS
Steel Wire Rope

Offshore oil and gas operations present some of the most demanding environments for steel wire ropes. As such, products must be specifically engineered and manufactured to withstand these extreme conditions.

With decades of experience and some of the most advanced technology, IPH is recognized globally for developing steel wire ropes that meet the critical requirements of the oil and gas industry—delivering reliable, high-performance solutions.

Our ropes are manufactured and monitored under a quality management system certified to ISO 9001 and API Spec Q1. We also hold Lloyd's Register approval for galvanized ropes and the API 9A monogram for oilfield applications—certifications we have maintained since 1989.

For special applications or cables not listed in this catalog, please contact our Sales team.

IPH QUALITY

The quality certificate issued by IPH guarantees traceability and compliance with both national and international standards. These standards are applied at every stage of the manufacturing process, from raw material reception to the final product.

MANAGEMENT SYSTEM CERTIFICATIONS:

American Petroleum Institute, API Monogram Spec Q1, Spec 9A.
TÜV Rheinland, ISO 9001:2015.
Fundaçao Vanzolini NBR, ISO 9001:2015.

WIRE ROPE SPECIFIC CERTIFICATIONS:

Marine use
Lloyd's Register plant certification.

Elevators
IRAM-INTI and IRAM 840 product certification.

General purpose
ABNT NBR and ISO 2408 product certification.

Proud members of:
Associated Wire Rope Fabricators

Offshore containers lifting slings
DNV 2.7-1 product certification.

Wire rope slings
IRAM 5221 Flemish eye product certification.

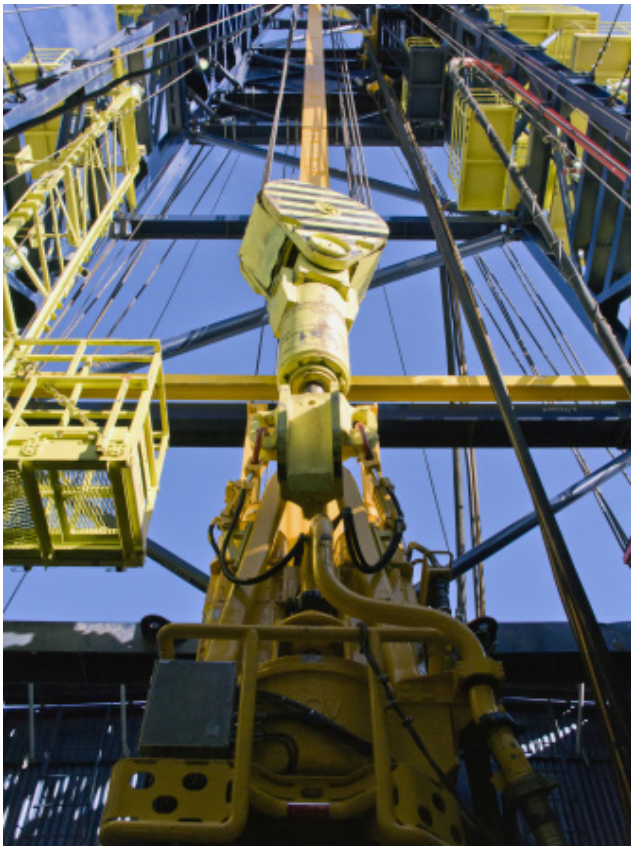
DRILLING LINE

Drilling lines are subjected to some of the most severe operating conditions in offshore environments. These ropes must withstand continuous bending over small-diameter sheaves, intense drum compression, and high levels of abrasion throughout each drilling cycle. For this reason, wire ropes used as drilling lines must be engineered for maximum fatigue resistance, structural stability, and long service life under heavy and repeated loads.

IPH 619 API

Advantages and features

- Meets API 9A requirements and exceeds API RP 9B performance standards
- Proven reliability under severe bending, compression, and abrasion conditions
- Cost-effective solution for offshore drilling line applications
- Consistent performance with IWRC construction for added strength and stability



The IPH 619 API wire rope is a trusted, go-to choice for drilling line applications. It is available in 6x19 Seale (S) or 6x26 Warrington Seale (WS) constructions, depending on the diameter, and is always manufactured with an independent wire rope core (IWRC) for added strength and durability.

Minimum breaking load

Diameter		Weight	Grade EIP	
[mm]	**[inch]**	**[lb/ft]**	**[kN]**	**[t]**
25.40	1	2,76	460	46.9
28.60	1 1/8	3,49	578	59.0
31.80	1 1/4	4,31	711	72.6
34.90	1 3/8	5,20	854	87.1
38.10	1 1/2	6,20	1010	103
41.30	1 5/8	7,26	1170	119
44.50	1 3/4	8,42	1360	139
47.60	1 7/8	9,66	1550	158
50.80	2	11,00	1760	180
54.00	2 1/8	12,40	1970	201
57.20	2 1/4	13,90	2200	224

Construction: 6x19 S or 6x26 WS, may vary depending on the diameter.
Coating: bright (galvanized available upon request).
Contact IPH for diameters or tensile strengths not specified in this catalog.

DRILLING LINE

Advantages and features

- Exceeds performance expectations outlined in API RP 9B and IADC reference standards
- Ideal for high-demand drilling due to its higher breaking load and suitability for lower safety factors
- Larger contact surface on sheaves improves load distribution and reduces wear
- Enhanced resistance to compression and abrasion when wound on drums

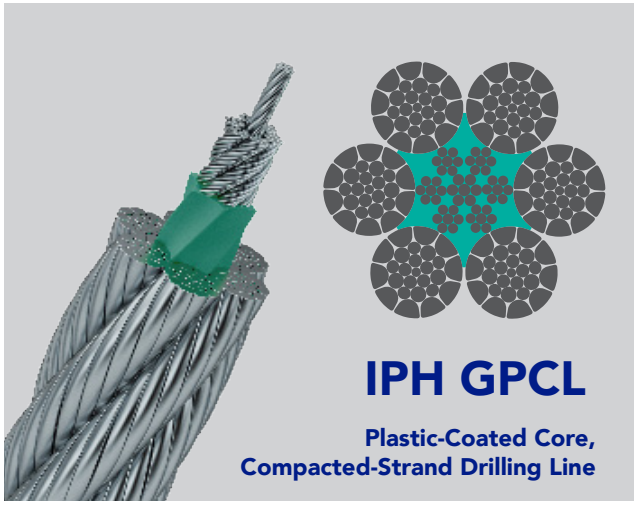
The IPH GPC wire rope stands apart from standard ropes by incorporating strand compaction during the manufacturing process. It is available in 6x19 Seale (S) or 6x26 Warrington Seale (WS) constructions, depending on the diameter, and features compacted strands along with an independent wire rope core (IWRC) for enhanced strength and durability.

Minimum breaking load

Diameter		Weight	Grade EIP	
[mm]	[inch]	[lb/ft]	[kN]	[t]
25.40	1	2,82	510	52.0
28.60	1 1/8	3,58	640	65.3
31.80	1 1/4	4,42	791	80.7
34.90	1 3/8	5,32	953	97.2
38.10	1 1/2	6,35	1140	116
41.30	1 5/8	7,46	1340	137
44.50	1 3/4	8,66	1550	158
47.60	1 7/8	9,90	1770	181
50.80	2	11,30	2020	206
54.00	2 1/8	12,75	2280	233
57.20	2 1/4	14,30	2560	261

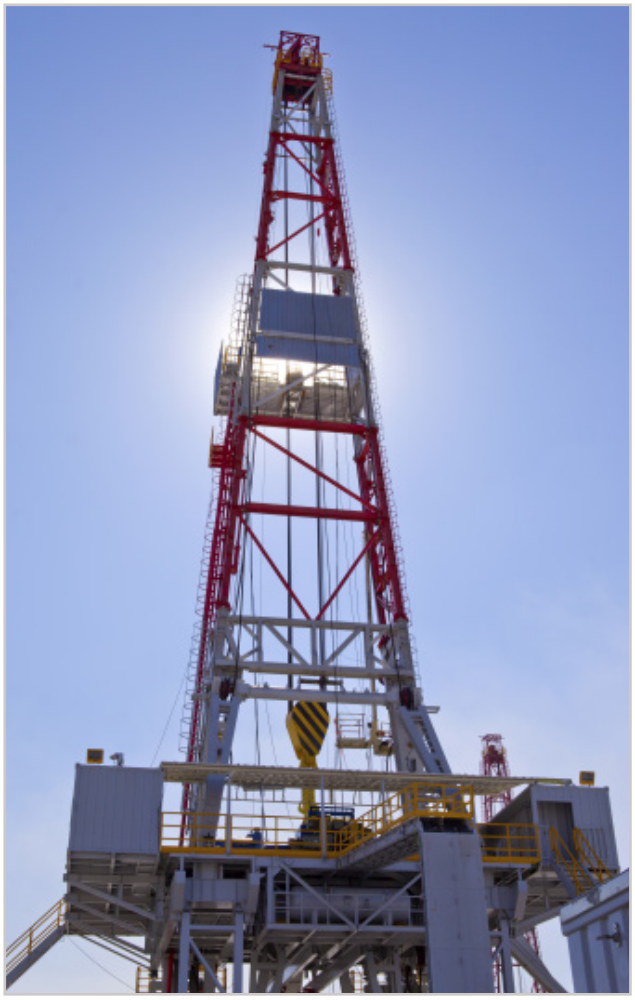
Construction: 6x19 S or 6x26 WS, may vary depending on the diameter.
Coating: bright (galvanized available upon request).
Contact IPH for diameters or tensile strengths not specified in this catalog.

DRILLING LINE



IPH GPCL

Plastic-Coated Core, Compacted-Strand Drilling Line



Advantages and features

- Exceeds API RP 9B and IADC reference values by up to 25%
- Higher breaking load and improved structural stability under dynamic loads
- Thermoplastic-coated core minimizes internal friction and wire wear
- Greater contact surface on sheaves improves load distribution
- Enhanced resistance to compression and abrasion on the drum
- Excellent fatigue performance in deep and demanding drilling conditions

The IPH GPCL is a high-performance wire rope designed for deep drilling applications where low safety factors, high loads, and harsh environments demand enhanced durability. It features compacted outer strands and an IWRC core that undergoes a thermoplastic coating process—improving internal stability and minimizing wire-to-wire contact. Its construction is either 6x19 Seale (S) or 6x26 Warrington Seale (WS), depending on the diameter, with both the compaction and plastic infiltration processes working together to increase bending fatigue resistance and rope life.

Minimum breaking load

Diameter		Weight	Grade EIP	
[mm]	[inch]	[lb/ft]	[kN]	[t]
25.40	1	2,87	535	54.6
28.60	1 1/8	3,64	675	68.9
31.80	1 1/4	4,51	835	85.2
34.90	1 3/8	5,43	1010	103
38.10	1 1/2	6,47	1200	122
41.30	1 5/8	7,60	1410	144
44.50	1 3/4	8,82	1590	162
47.60	1 7/8	10,10	1800	184
50.80	2	11,50	2070	211
54.00	2 1/8	13,00	2340	239
57.20	2 1/4	14,60	2620	267

Construction: 6x19 S or 6x26 WS, may vary depending on the diameter.
Coating: bright (galvanized available upon request).
Contact IPH for diameters or tensile strengths not specified in this catalog.

HIGH PERFORMANCE DRILLING LINE

IPH GP619 ULTRA

High-Performance Plastic-Coated Drilling Line

Advantages and features

- Enhanced fatigue resistance for extended service life
- Excellent abrasion resistance under demanding conditions
- Softer surface contact reduces sheave wear and extends rope lifespan

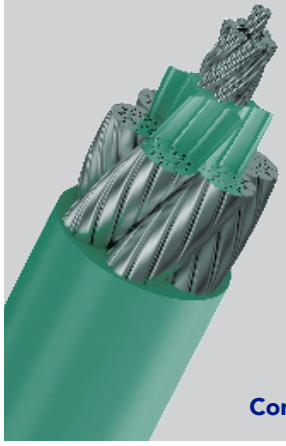
High-performance, plastic-coated wire rope specifically engineered for demanding applications where traction, bending, and compression forces occur simultaneously. Designed to withstand harsh environmental conditions that accelerate corrosion, its performance exceeds API RP 9B and IADC reference standards by 25% to 30%, depending on operating conditions.

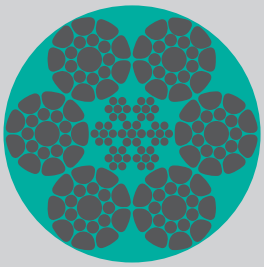
Minimum breaking load

Diameter		Weight	Grade EIP	
[mm]	[inch]	[lb/ft]	[kN]	[t]
25.40	1	2,82	510	52.0
28.60	1 1/8	3,58	640	65.3
31.80	1 1/4	4,42	791	80.7
34.90	1 3/8	5,32	953	97.2
38.10	1 1/2	6,35	1140	116
41.30	1 5/8	7,46	1340	137
44.50	1 3/4	8,66	1550	158
47.60	1 7/8	9,90	1770	181
50.80	2	11,30	2020	206
54.00	2 1/8	12,75	2280	233
57.20	2 1/4	14,30	2560	261

Construction: 6x19 S or 6x26 WS, may vary depending on the diameter.
Coating: bright (galvanized available upon request).
Contact IPH for diameters or tensile strengths not specified in this catalog.

HIGH PERFORMANCE DRILLING LINE





IPH GPCL ULTRA

Premium Plastic-Infiltrated, Compacted-Strand Drilling Line

Advantages and features

- Excellent abrasion resistance for extended service life
- Optimal load distribution and maximum bending fatigue resistance
- Softer surface contact minimizes sheave wear and extends rope longevity
- Increased metallic cross-section delivers higher breaking load
- Superior resistance to lateral drum compression
- Enhanced structural stability under dynamic operating conditions

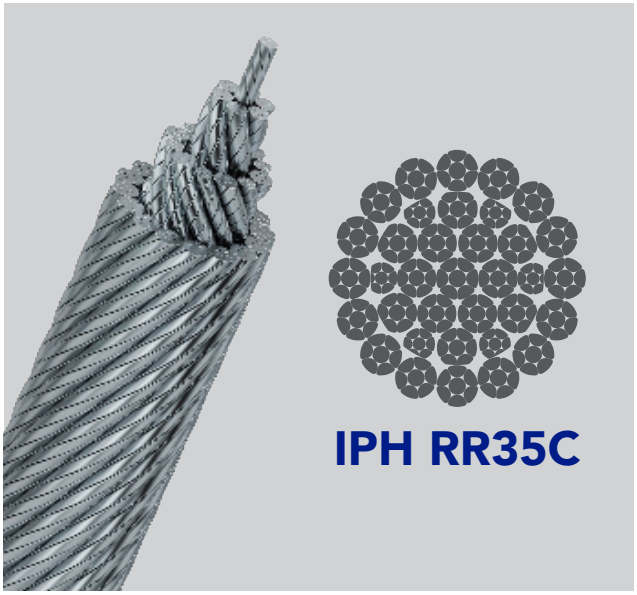
The IPH GPCL ULTRA is a top-tier, high-performance wire rope developed for the most demanding offshore drilling conditions. It combines compacted outer strands with a thermoplastic-infiltrated IWRC core, enhancing structural stability, corrosion protection, and bending fatigue resistance.
This rope is designed for operations where tensile, bending, compression, and abrasive forces are present—especially in harsh, corrosive environments. Its performance exceeds API RP 9B and IADC reference values by 30% to 35%, depending on the application.

Minimum breaking load

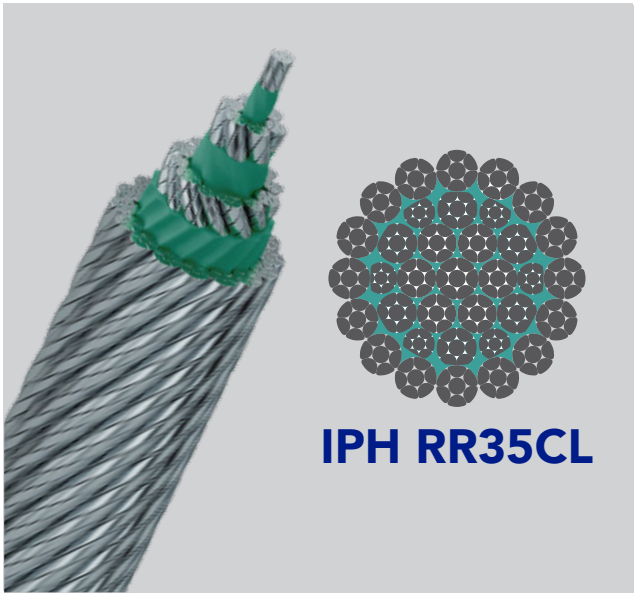
Diameter		Weight	Grade EIP	
[mm]	[inch]	[lb/ft]	[kN]	[t]
25.40	1	2,87	521	53.2
28.60	1 1/8	3,64	657	67.0
31.80	1 1/4	4,51	813	83.0
34.90	1 3/8	5,43	984	100
38.10	1 1/2	6,47	1170	119
41.30	1 5/8	7,60	1370	140
44.50	1 3/4	8,82	1550	158
47.60	1 7/8	10,10	1750	179
50.80	2	11,50	2020	206
54.00	2 1/8	13,00	2280	233
57.20	2 1/4	14,60	2550	260

Construction: 6x19 S or 6x26 WS, may vary depending on the diameter.
Coating: bright (galvanized available upon request).
Contact IPH for diameters or tensile strengths not specified in this catalog.

NON ROTATION WIRE ROPE



IPH RR35C



IPH RR35CL

Advantages & Features

- Outstanding resistance to rotation, ensuring stability during lifting operations.
- Compacted surface enhances abrasion resistance and reduces sheave wear.
- High breaking strength due to an increased metallic cross-section from the compacting process.
- Special design and Lang lay construction provide excellent resistance to bending fatigue.
- Superior compression load resistance for multilayer drum applications, especially RR35CL.
- Fully lubricated for enhanced protection against friction and corrosion, combined with a galvanized coating for increased durability.
- Compatible with swivels, allowing for rotational movement when necessary.

This is a major innovation in rotation-resistant ropes, required for tower cranes, mobile cranes, and high-lift overhead cranes. The compacted strands and parallel lay design provide a higher breaking load than conventional rotation-resistant ropes. At the same time, they offer greater flexibility and reduced wear on both the sheaves and the rope itself.

The IPH RR35CL rope, thanks to its plastic-coated core, adds increased stability and fatigue resistance to the properties of the RR35C. Both ropes are used in the same types of applications. The plastic infiltration prevents lubrication loss and moisture penetration, while also reducing wire-to-wire friction, resulting in longer service life.

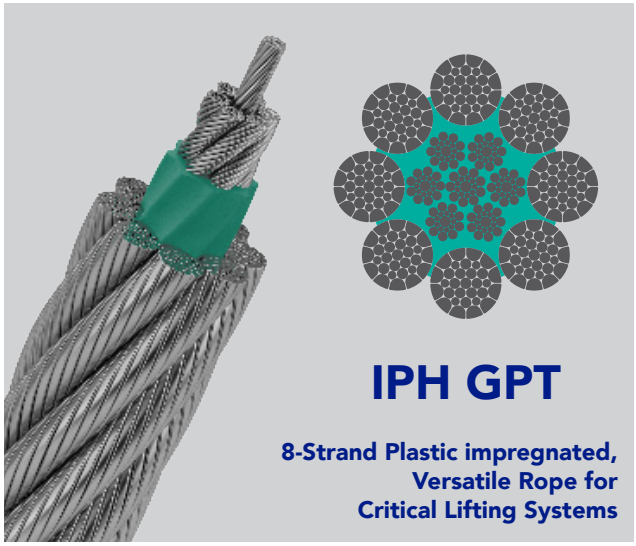
		Minimum breaking load	
Diameter	Weight	Grade 2160 N/mm²	
[mm]	[lb/ft]	[kN]	[t]
10.00	0,48	90	9.20
11.00	0,58	109	11.1
12.00	0,69	129	13.2
13.00	0,80	152	15.5
14.00	0,97	181	18.5
15.00	1,11	207	21.1
16.00	1,26	236	24.1
17.00	1,43	266	27.1
18.00	1,60	299	30.5

CONTINUE

		Minimum breaking load	
Diameter	Weight	Grade 2160 N/mm²	
[mm]	[lb/ft]	[kN]	[t]
19.00	1,78	333	34.0
20.00	1,98	369	37.7
21.00	2,18	406	41.4
22.00	2,39	446	45.5
23.00	2,61	488	49.8
24.00	2,85	531	54.2
25.00	3,34	623	63.6
26.00	3,87	723	73.8
28.00	4,45	829	84.6
30.00	5,06	944	96.3
32.00	5,71	1070	109
34.00	6,40	1190	121
36.00	7,13	1330	136
38.00	7,91	1470	150
40.00	8,72	1630	166
42.00	9,57	1780	182
44.00	10,50	1940	198
48.00	11,40	2120	216
50.00	12,40	2300	235

Construction: 27x7 IWRC or 35x7 IWRC, may vary depending on diameter.
Coating: galvanized (bright available upon request), fully lubricated.
Default lay: Lang lay.
Contact IPH for diameters or tensile strengths not specified in the table.

BOOM HOIST ROPE



IPH GPT

8-Strand Plastic impregnated, Versatile Rope for Critical Lifting Systems

Advantages & Features

- Excellent fatigue resistance for extended rope life
- Reduced sheave wear due to optimized surface contact
- High breaking load capacity for demanding lift operations
- Structurally stable design, ideal for multilayer drum applications
- Not compatible with swivels

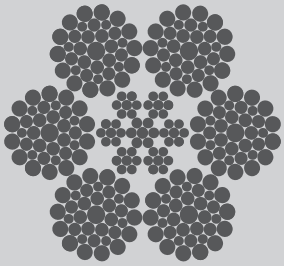
IPH GPT wire ropes deliver outstanding performance by integrating the key technologies of high-performance rope design. They are engineered for reliability across a wide range of demanding lifting and hoisting applications.

Minimum breaking load

Diameter	Weight	Grade 2160 N/mm²	
[mm]	[lb/ft]	[kN]	[t]
10.00	0,46	96.4	9.84
12.00	0,66	139	14.2
13.00	0,78	163	16.6
14.00	0,90	189	19.3
15.00	1,03	217	22.1
16.00	1,17	247	25.2
17.00	1,33	278	28.4
18.00	1,49	312	31.8
19.00	1,66	348	35.5
20.00	1,83	385	39.3
21.00	2,02	417	42.5
22.00	2,22	457	46.7
23.00	2,43	500	51.0
24.00	2,64	544	55.5
25.00	2,87	590	60.2
26.00	3,10	639	65.2
27.00	3,34	689	70.3
28.00	3,60	741	75.6
29.00	3,86	794	81.1
30.00	4,13	851	86.8
31.00	4,41	895	91.3
32.00	4,70	953	97.3
33.00	4,99	1010	103
34.00	5,30	1080	110
35.00	5,62	1140	116
36.00	5,94	1210	123
37.00	6,28	1280	131
38.00	6,62	1340	137
39.00	6,98	1420	145
40.00	7,34	1490	152
42.00	8,09	1640	167
44.00	8,88	1810	185
46.00	9,50	1850	189
48.00	10,00	2060	210
50.00	11,50	2320	237

Construction: standard 8x26, 8x31, 8x36 WS IWRC, may vary depending on diameter.
Coating: galvanized.
Contact IPH for diameters or tensile strengths not specified in this catalog.

ROPES FOR RISER TENSIONERS



IPH 636

6-Strand Rope for General-Purpose Offshore Use

Advantages and features

- Excellent flexibility for smooth operation over sheaves and drums
- Strong crush resistance, ideal for winches and tensioner systems
- Mineral-based lubricant with corrosion inhibitors for long-term protection
- Fully galvanized construction for enhanced resistance to marine environments
- Reliable performance at a competitive cost

The IPH 636 is a reliable six-strand wire rope widely used in offshore riser tensioner systems. Built with a 6x36 Warrington Seale (WS) construction and an independent wire rope core (IWRC), it offers excellent flexibility and crush resistance—making it especially well-suited for winch trucks and similar applications. The rope is fully lubricated and galvanized for corrosion protection and long-term durability in harsh marine environments. It's a cost-effective solution that balances strength, performance, and longevity.

		Minimum breaking load	
Diameter	Weight	Grade 1960 N/mm²	
[mm]	**[lb/ft]**	**[kN]**	**[t]**
44.00	7,92	1350	138
46.00	8,66	1480	151
48.00	9,42	1610	164
50.00	10,22	1750	178
52.00	11,10	1890	193
56.00	12,80	2190	223
60.00	14,70	2510	256

Construction: standard 6x36 WS, may vary depending on diameter.
Coating: galvanized.
Contact IPH for diameters or tensile strengths not specified in this catalog.

ROPES FOR RISER TENSIONERS

IPH GPCL

6-Strand High-Performance Rope with Compacted Strands and Plastic-Coated Core

Advantages and features

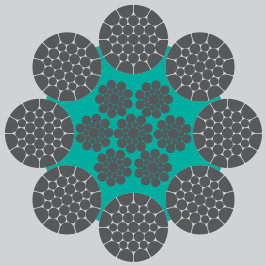
- Increased abrasion resistance and longer service life
- Thermoplastic-coated core minimizes internal wear and prevents moisture ingress
- Improved contact surface on sheaves for better load distribution
- Outstanding bending fatigue resistance under dynamic loads
- Fully lubricated and galvanized for enhanced corrosion protection
- Lang lay design improves fatigue resistance and rope stability

The IPH GPCL is designed for riser tensioner systems where dynamic loads, bending fatigue, and corrosion are critical factors. It features compacted outer strands and a thermoplastic-coated IWRC core, delivering superior structural stability, reduced internal friction, and extended service life. This rope is ideal for offshore environments requiring maximum fatigue resistance, consistent performance, and long-term reliability.

		Minimum breaking load	
Diameter	Weight	Grade 1960 N/mm²	
[mm]	[lb/ft]	[kN]	[t]
44.00	8,53	1590	162
46.00	9,29	1740	178
48.00	10,10	1900	194
50.00	11,00	2060	210
52.00	11,90	2170	221
56.00	13,80	2520	257
60.00	15,80	2890	295

Construction: 6x36 or 6x41, may vary depending on diameter.
Coating: galvanized.
Contact IPH for diameters or tensile strengths not specified in this catalog.

ROPES FOR RISER TENSIONERS



IPH GPT

8-strand High-Strength Rope for Riser Tensioning in Harsh Offshore Environments

Advantages and features

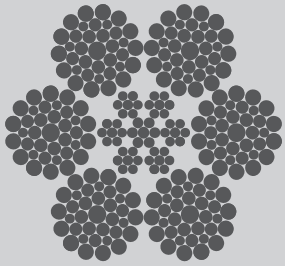
- Exceptional fatigue resistance for long-term performance
- High abrasion resistance and reduced sheave wear
- Maximum breaking load for critical riser tensioning systems
- Fully lubricated and galvanized for anti-friction and anti-corrosion protection
- Lang lay construction enhances rope flexibility and fatigue life
- Ideal for installations where rope conditioning is not possible

The IPH GPT is a robust, high-performance rope designed for riser tensioner systems where extreme loads, multi-layer winding, and environmental durability are required. Built with an 8-strand Warrington Seale (WS) construction and IWRC core, it offers excellent fatigue resistance, structural integrity, and corrosion protection. This rope is particularly recommended for modern offshore systems where rope run-in or cutting operations are not feasible, ensuring maximum reliability right from installation.

		Minimum breaking load	
Diameter	Weight	Grade 2160 N/mm²	
[mm]	[lb/ft]	[kN]	[t]
44.00	8,88	1810	185
46.00	9,50	1850	189
48.00	10,10	2060	210
50.00	11,50	2320	237
52.00	12,40	2490	254
54.00	13,40	2680	273
56.00	14,40	2880	294
58.00	15,50	3090	315
60.00	16,60	3310	338
62.00	17,70	3530	360
64.00	18,80	3760	384
66.00	20,00	4000	408
70.00	22,50	4100	418
76.00	26,50	4490	458

Construction: standard 8x31 WS, may vary depending on diameter.
Coating: galvanized.
Contact IPH for diameters or tensile strengths not specified in this catalog.

ROPES FOR CRANE EXTENDERS



IPH 636

6-Strand Flexible, High-Strength Rope for Crane Extender Applications

Advantages and features

- Excellent flexibility for smooth performance in dynamic lifting systems
- High breaking load for critical crane extender functions
- Fully lubricated and galvanized for long-term corrosion protection
- Strong crush resistance for multi-layer drum applications

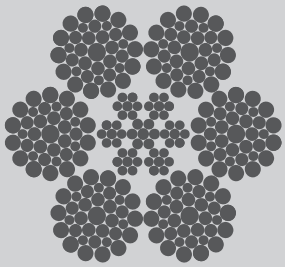
The IPH 636 is a six-strand wire rope designed for crane extenders and other applications requiring a strong balance between flexibility and tensile strength. With constructions such as 6x36 WS, 6x41 WS, or 6x61 WS—depending on diameter—this rope performs reliably in systems with frequent bending and multi-layer winding.Its IWRC core and galvanized finish offer enhanced resistance to crushing and corrosion, making it ideal for demanding offshore lifting operations.

Minimum breaking load

Diameter	Weight	Grade 1960 N/mm²	
[mm]	[lb/ft]	[kN]	[t]
26.00	2,76	472	48.2
28.00	3,21	547	55.8
30.00	3,68	631	64.4
32.00	4,19	715	730
34.00	4,73	807	82.3
36.00	5,30	904	92.2
38.00	5,78	1010	103
40.00	6,54	1120	114
42.00	7,22	1230	126
44.00	7,92	1350	138
48.00	9,42	1610	164
50.00	10,22	1740	178
52.00	11,10	1890	193
54.00	11,90	2040	208
56.00	12,80	2190	223
58.00	13,80	2350	240
60.00	14,70	2510	256
62.00	15,70	2680	273
64.00	16,70	2860	292

Construction: standard 6x36 WS, may vary depending on diameter.
Coating: galvanized.
Contact IPH for diameters or tensile strengths not specified in this catalog.

ROPES FOR TOWING AND MOORING



IPH 636

Reliable Six-Strand Rope for Towing and Mooring Applications

Advantages and features

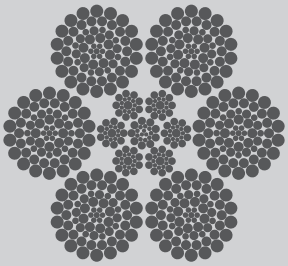
- High flexibility for effective handling and bending over winches and fairleads
- Strong breaking load for heavy-duty mooring and towing tasks
- Fully lubricated for reduced internal friction and enhanced fatigue life
- Galvanized wires for superior corrosion resistance in marine environments
- Consistent performance under repeated load cycles and shock loading

The IPH 636 is a proven solution for mooring and towing operations where ropes are subjected to dynamic loads, cyclic bending, and harsh marine conditions. Built with a 6x36 WS construction and an IWRC core, it offers an ideal balance of flexibility, strength, and durability. Its fully lubricated and galvanized design ensures long service life even under aggressive environmental exposure, making it a preferred choice for offshore and port operations.

		Minimum breaking load	
Diameter	Weight	Grade 1960 N/mm²	
[mm]	[lb/ft]	[kN]	[t]
44.00	7,92	1350	138
46.00	8,66	1480	151
48.00	9,42	1610	164
50.00	10,22	1750	178
52.00	11,10	1890	193
56.00	12,80	2190	223
60.00	14,70	2510	256

Construction: standard 6x36 WS, may vary depending on diameter.
Coating: galvanized.
Contact IPH for diameters or tensile strengths not specified in this catalog.

ROPES FOR TOWING AND MOORING



IPH 661

Heavy-Duty 6-Strand Rope for High-Load Mooring and Towing

Advantages and features

- High flexibility with excellent bending performance over sheaves and drums
- Superior breaking strength for heavy towing and mooring applications
- Fully lubricated and galvanized for long-lasting protection against corrosion
- Designed for both shock absorption and sustained loading
- Suitable for long-term offshore use in demanding environments

The IPH 661 is a high-performance wire rope designed for mooring and towing operations that demand maximum strength, fatigue resistance, and durability. It is built for environments where ropes must withstand high static and dynamic loads, repeated bending, torsional stress, and long-term exposure to corrosive elements. This rope is available in 6x36 WS, 6x41 WS, and 6x61 WS constructions depending on the diameter, with a galvanized finish and IWRC core to ensure consistent performance in the most challenging offshore or marine conditions.

Minimum breaking load

Diameter		Weight		
[mm]	**[inch]**	**[lb/ft]**	**[kN]**	**[t]**
54.0	2 1/8	12,40	1970	201
57.2	2 1/4	13,90	2200	224
60.3	2 3/8	15,50	2440	249
63.5	2 1/2	17,30	2950	301
69.9	2 3/4	20,80	3530	360
76.2	3	24,70	4160	424
82.6	3 1/4	29,00	4830	493
85.7	3 3/8	31,30	5180	529
88.9	3 1/2	33,80	5520	563
102	4	44,00	6340	647

Construction: standard 6x36 WS, 6x41 WS, 6x61 WS, may vary depending on diameter.
Coating: galvanized.
Contact IPH for diameters or tensile strengths not specified in this catalog..

IPH'S HISTORY

Founded in 1949 in Buenos Aires, Argentina, IPH has become a leading manufacturer of steel wire ropes in the Americas. Over the years, IPH has built a reputation for delivering solutions to meet the most demanding industry requirements, supported by continuous investment in infrastructure, technology, and research and development.

IPH operates a state-of-the-art facility in Buenos Aires, featuring 484,000 square feet of production space and a monthly capacity of 1,600 tons. Combining cutting-edge technology, highly skilled personnel, and a robust quality management system that adheres to international standards, IPH delivers reliable and high-performance products tailored to the specific needs of various industries.

Our products are designed to excel in applications such as elevators, oil and gas, mining, fishing, energy transport, mways, port terminals, cranes, and large-scale hoisting.

At IPH, customer satisfaction is a priority. We provide personalized technical support, tailored training programs, and a focus on the efficient and safe operation of our products. These high standards have allowed IPH to distribute its products globally, reaching competitive markets across five continents.

For over 75 years, IPH has upheld a business philosophy rooted in quality and innovation, transforming the company into the global leader it is today.

Bella Vista Service Center, Argentina.

San Miguel Plant, Buenos Aires, Argentina.

IPH. EVOLUTION AS AN ATTITUDE

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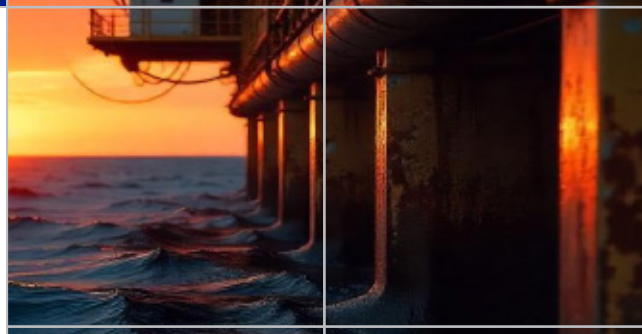

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